



BURNSIDE

**Stormwater Management Report  
Oxford County Waste Management  
Facility, Salford ON**

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DRAFT

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## Table of Contents

|                                                       |           |
|-------------------------------------------------------|-----------|
| <b>Distribution List</b>                              | <b>i</b>  |
| <b>Record of Revisions</b>                            | <b>i</b>  |
| <b>Table of Contents</b>                              | <b>ii</b> |
| <b>1.0 Introduction</b>                               | <b>1</b>  |
| 1.1 Site Description and Background                   | 1         |
| 1.2 Background Information                            | 1         |
| 1.3 Stormwater Management Criteria and Design Updates | 2         |
| 1.4 Hydro Corridor Constraints                        | 3         |
| <b>2.0 South Fill Area Stormwater Management Plan</b> | <b>6</b>  |
| 2.1 Existing Conditions                               | 6         |
| 2.2 Proposed Conditions                               | 7         |
| 2.2.1 Stormwater Management Quality Control           | 11        |
| <b>3.0 Conveyance</b>                                 | <b>13</b> |
| 3.1 Swales                                            | 13        |
| 3.2 Culverts                                          | 14        |
| <b>4.0 Conclusions and Recommendations</b>            | <b>14</b> |

## Tables

|                                                                       |    |
|-----------------------------------------------------------------------|----|
| Table 1: 2007 Stormwater Management Pond Summary                      | 1  |
| Table 2: Existing Catchment Parameters                                | 6  |
| Table 3: Existing Peak Flow Summary (m <sup>3</sup> /s)               | 7  |
| Table 4: Proposed Catchment Parameters                                | 8  |
| Table 5: Proposed Peak Flow Summary – Unmitigated (m <sup>3</sup> /s) | 10 |
| Table 6: Pond C Quantity Control Summary                              | 10 |
| Table 7: Pond D Quantity Control Summary                              | 11 |
| Table 8: Quantity Control Summary (m <sup>3</sup> /s)                 | 11 |
| Table 9: Swale Calculation Summary                                    | 13 |
| Table 10: Culvert Calculation Summary                                 | 14 |

## Figures

|                                  |   |
|----------------------------------|---|
| Figure 1: Study Area             | 5 |
| Figure 2: Existing Drainage Plan | 7 |
| Figure 3: Proposed Drainage Plan | 9 |

## Appendices

|                                                          |
|----------------------------------------------------------|
| Appendix A Stormwater Management Hydrology Calculations  |
| Appendix B Stormwater Management Hydraulics Calculations |
| Appendix C Drawings                                      |
| Appendix D Visual Otthymo Model Results                  |

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## 1.0 Introduction

### 1.1 Site Description and Background

R.J. Burnside & Associates Limited (Burnside) has been retained by the County of Oxford (the County) to prepare a stormwater management report in support of an *Ontario Water Resources Act (OWRA)* Environmental Compliance Approval (ECA) amendment for the Oxford County Waste Management Facility (OCWMF) located in Salford at Lots 11 and 12, Concession 2. The roughly 42 ha site is an existing County landfill, currently operating within the “North Fill Area”. The purpose of the ECA amendment is to extend operations into the “South Fill Area” (see Figure 1).

This Report provides the stormwater management design to support the expansion into the South Fill Area.

### 1.2 Background Information

The following Stormwater Management Report (2007 Report) was prepared and approved in support of ECA-OWRA 4504-74CKZ2, issued July 3, 2007:

- Oxford County Landfill Storm Water Management Evaluation Report, dated January 2007, prepared by SNC Lavalin Engineers & Constructors Inc.

A Design and Operation Report was also prepared in 2013 to satisfy requirements of ECA-Waste A070808:

- Report entitled "Oxford County Salford Landfill Site Design and Operations Report", prepared by M.M. Dillon Limited, dated September 12, 1984, and revised on June 17, 1986, by the County of Oxford.
- Oxford Landfill Site Design and Operation Report, dated April 2013, prepared by R.J. Burnside & Associates Limited.

This approved report includes the conveyance and stormwater management design for the landfill development at the time, as well as future considerations for operating the South Fill Area. Stormwater Ponds A and B are now existing ponds, servicing the North Fill Area, and Ponds C and D were designed as future ponds to service the South Fill Area. A summary of the design parameters for each pond from the 2007 Report is provided in Table 1 below.

**Table 1: 2007 Stormwater Management Pond Summary**

|                        | <b>Pond A (Existing)<br/>North Fill</b> | <b>Pond B (Existing)<br/>North Fill</b> | <b>Pond C (Future)<br/>South Fill</b> | <b>Pond D (Future)<br/>South Fill</b> |
|------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------|
| Tributary Area<br>(ha) | 15.54                                   | 17.53                                   | 19.37                                 | 12.73                                 |

|                                           | <b>Pond A (Existing)<br/>North Fill</b> | <b>Pond B (Existing)<br/>North Fill</b> | <b>Pond C (Future)<br/>South Fill</b> | <b>Pond D (Future)<br/>South Fill</b> |
|-------------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|---------------------------------------|
| Pond Footprint (m <sup>2</sup> )          | 7,550                                   | 15,000                                  | 5,900                                 | 6,200                                 |
| Quality Storage Volume (m <sup>3</sup> )  | 35,000<br>(2,252 m <sup>3</sup> /ha)    | 53,000<br>(3,023 m <sup>3</sup> /ha)    | 2,950<br>(152 m <sup>3</sup> /ha)     | 3,100<br>(244 m <sup>3</sup> /ha)     |
| Permanent Depth (m)                       | 4.6                                     | 1.2                                     | 0.5                                   | 0.5                                   |
| Quantity Storage Volume (m <sup>3</sup> ) | 9,000                                   | 15,000                                  | 8,850                                 | 8,600                                 |
| Active Depth (m)                          | 3.5                                     | 1.0                                     | 1.5                                   | 1.4                                   |
| Discharge Location                        | Pond B                                  | Hooper Drain                            | Local Drainage Ditch                  | Local Drainage Ditch                  |
| Location On-site                          | Northwest – North Fill Area             | Northeast – North Fill Area             | Northwest – South Fill Area           | Southwest – South Fill Area           |

The four Ponds (A to D) were sized to provide quantity control to ensure the post-development peak flow rates do not exceed the existing rates for the 2- through 100-year storm return periods. The ponds incorporated a conservative design, whereby the first 0.5 m depth of active storage was omitted from the quantity control calculations. Peak flow rates and required storage volumes were determined using QUALHYMO hydrologic modeling software.

Quality control, as described in the 2007 Report, is to provide a minimum 24-hour detention of the 4-hour 25 mm quality storm. Achievement of this criterion is demonstrated in the Report. The 2007 Report does not describe criteria for determining the required permanent pool volumes; however, we note the volumes provided are greater than the typical sediment control pond permanent volume (125 m<sup>3</sup>/ha).

Ponds C and D discharge to an existing drainage route to the west, maintaining existing drainage patterns. Drainage ditches on-site were sized to convey the 25-year storm, with appropriate erosion protection. This is in keeping with design standards at the time.

For the purposes of this memo and assessment, we have assumed the existing stormwater management features are in good condition and constructed as-designed.

### 1.3 Stormwater Management Criteria and Design Updates

At the request of the County, the design presented in the 2007 Report is to be updated to reflect current design standards for the South Fill Area's construction.

1. Quantity control, post-development to existing conditions, is to be provided for the 2- through 100-year storms. A new hydrologic model will be created using current intensity-duration-frequency (IDF) data, and designs of stormwater management Ponds C and D updated accordingly.
2. Routing of the Regional storm is to be provided. The 2007 Report demonstrates the regional flows and volumes are accommodated in the designs for Ponds C and D.
3. Minimum 24-hour extended detention of the 4-hour 25 mm storm is to be provided. The 2007 Report demonstrates the 24-hour drawdown of the 25 mm storm will be achieved.
4. Enhanced quality control (minimum 80% total suspended solids (TSS) removal) will be required. The stormwater management ponds are to include a minimum 1.0 m deep permanent pool, and a settling forebay at the pond inlet(s). This objective was not part of the 2007 design, and will be incorporated into an updated pond design for Ponds C and D. These changes include deepening the permanent pool by 0.5 m from the 2007 design, and the addition of inlet forebays for Ponds C and D.
5. New on-site drainage ditches are to be sized to convey the 100-year storm, culverts to convey the 25-year storm. The ditch sizing included in the 2007 Report was completed based on the 25-year storm runoff. Ditch calculations will be updated to ensure conveyance capacity for the 100-year storm.
6. A road will be required to provide access from the North Fill Area to the South Fill Area. The County is also considering utilizing the permanent pool storage volume of one or both future ponds for fire protection. The on-site road to the south fill area should be adequate for fire equipment use. The road provides space for fire equipment access to Ponds C and D without completely blocking the road for other traffic.
7. The stormwater management design is also to be updated to accommodate climate change considerations. As a conservative approach for this design, the 100-year rainfall total has been increased by 30% to represent anticipated increases in peak flows due to climate change.
8. A portion of the site is located within the Upper Thames River Conservation Authority regulated area; however, all Works associated with the south fill area are outside of the regulated area.

## 1.4 Hydro Corridor Constraints

The 2007 design located Pond C within a hydro corridor, and partially within an easement in favor of Hydro One. This location was determined to be unworkable as the easement restrictions did not allow for a stormwater management pond. Pond C has been relocated to be entirely between the hydro easements, and a minimum 15 m away from any transmission tower.

Grading, ditching and access road crossing of the easement has been minimized. A summary of the applicable Hydro One constraints is listed below:

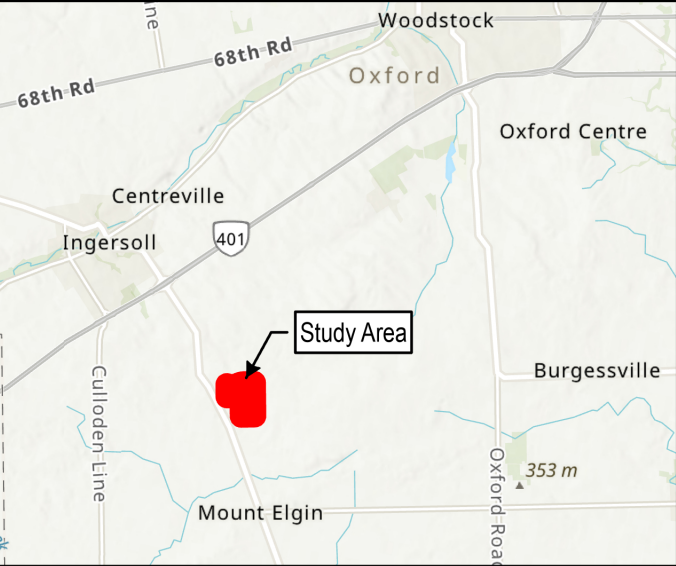
- Grading changes must not result in standing water anywhere along the corridor.
- Stormwater ponds must be designed to withstand the effects of 100-year storm conditions.
- Roads crossing the ROW must be perpendicular to the hydro corridor.
- Roads should stay 15 m clear of transmission structures, and a 15 m clear working radius around transmission structures is required.



Study Area

Subject Property

Fill Areas



**Sources:**

1. Ministry of Natural Resources, © Queen's Printer for Ontario  
2. Natural Resources Canada © Her Majesty the Queen in Right of Canada.

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Coord. System: NAD 1983 UTM Zone 17N

Projection: Transverse Mercator

Central Meridian: 81°0'0.00"W

False Easting: 500,000m

False Northing: 0m

Page Orientation: -10.62°

Scale Factor: 0.99960

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**COUNTY OF OXFORD**

Figure Title

**OXFORD LF SOUTH FILL AREA  
EXPANSION  
STUDY AREA**

| Drawn      | Checked | Date        | Figure No. |
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## 2.0 South Fill Area Stormwater Management Plan

The stormwater management plan includes design for quality control, quantity control and conveyance of the anticipated runoff from the south fill expansion area. The North Fill Area will remain unchanged, with stormwater management provided by existing Ponds A and B.

### 2.1 Existing Conditions

Currently, surface water in the South Fill Area of the site drains to two existing outlet points on the western limit of the property. These two swales converge approximately 100 m downstream of the site. The existing drainage areas are shown in Figure 2.

The existing catchment area parameters were determined based on existing topography and existing meadow land use. The Oxford County Soils Mapping indicates the existing soils are Huron Clay Loam, which is classified as a Type C soil. The times to peak were calculated using the Airport Equation, as the runoff coefficient for the existing meadow cover is 0.25 (less than 0.40).

**Table 2: Existing Catchment Parameters**

| Catchment    | Area (ha)    | Length (m) | Slope (%) | Curve Number CN | Initial Abstractions IA (mm) | Time to Peak (hr) |
|--------------|--------------|------------|-----------|-----------------|------------------------------|-------------------|
| 101          | 9.85         | 450        | 4.9       | 71              | 8.0                          | 0.39              |
| 102          | 16.50        | 600        | 4.2       | 71              | 8.0                          | 0.47              |
| <b>Total</b> | <b>26.35</b> |            |           |                 |                              |                   |

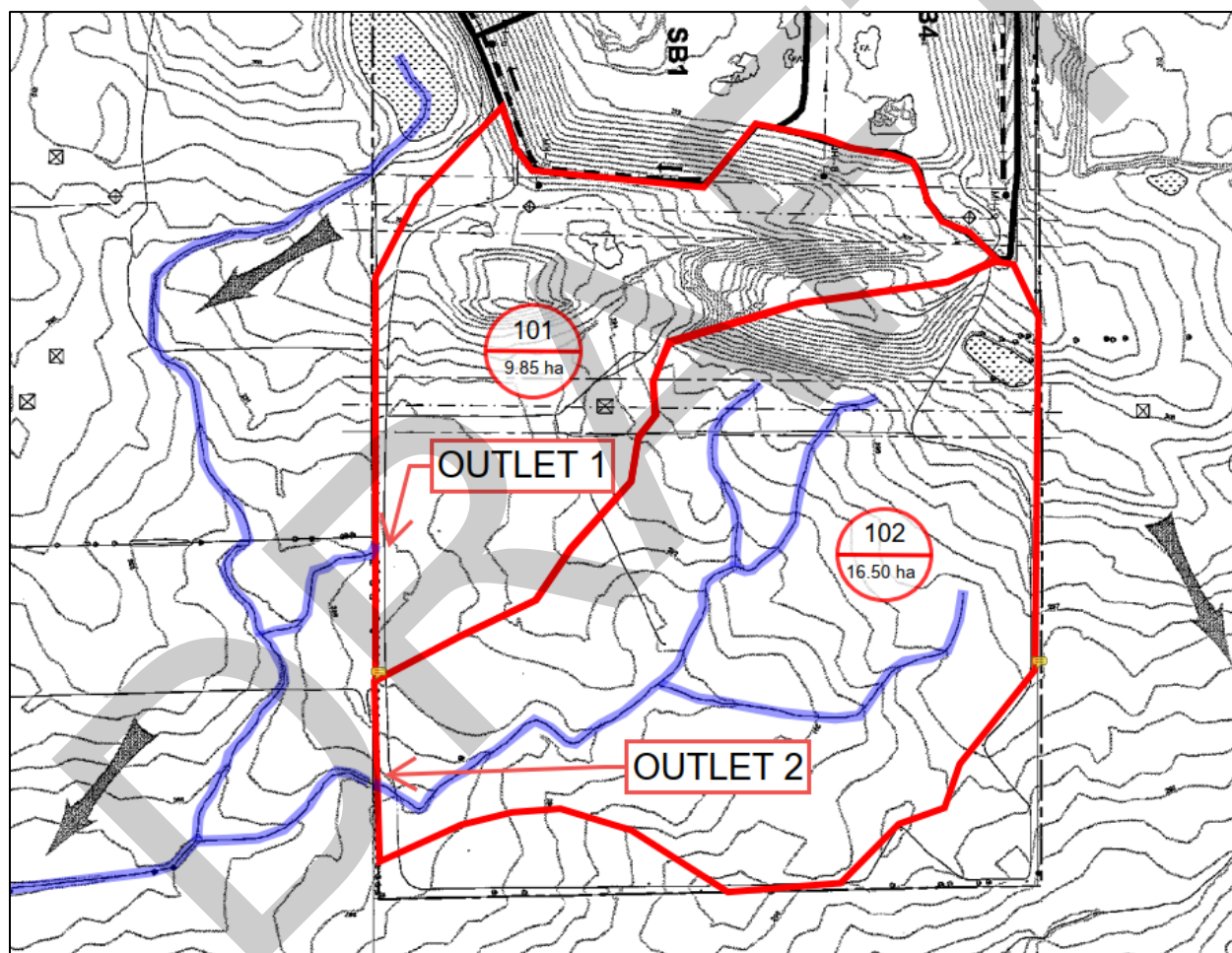
The catchment parameters were entered into VO Visual OTTHYMO software to determine the existing peak flow rates. The MTO Intensity-Duration-Frequency (IDF) lookup tool was used to determine the appropriate rainfall data for the site. The 2- through 100-year 24-hour SCS Type II and 4-hour Chicago storm distributions were considered in the analysis. As noted in Section 1.3 above, an additional storm was also included in the model to represent the estimated impacts of climate change, by increasing the 100-year rainfall total by 30%. The SCS storms were ultimately found to be the governing case, requiring the most volumes to achieve quantity control; therefore, only the SCS storms are presented within this report.

Table 3 below summarizes the existing peak flows, which will set the target release rates for the proposed conditions.

**Table 3: Existing Peak Flow Summary (m<sup>3</sup>/s)**

| Catchment         | 2-Year      | 5-Year      | 10-Year     | 25-Year     | 50-Year     | 100-Year    | 100-Year<br>CC |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|
| 101<br>(Outlet 1) | 0.27        | 0.46        | 0.61        | 0.80        | 0.94        | 1.10        | 1.63           |
| 102<br>(Outlet 2) | 0.40        | 0.68        | 0.89        | 1.17        | 1.39        | 1.61        | 2.41           |
| <b>Total</b>      | <b>0.67</b> | <b>1.14</b> | <b>1.48</b> | <b>1.95</b> | <b>2.31</b> | <b>2.68</b> | <b>3.99</b>    |

**Figure 2: Existing Drainage Plan**



\*Background Source: Oxford County Landfill Storm Water Management Evaluation Report, January 2007, prepared by SNC Lavalin Engineers & Constructors Inc.

## 2.2 Proposed Conditions

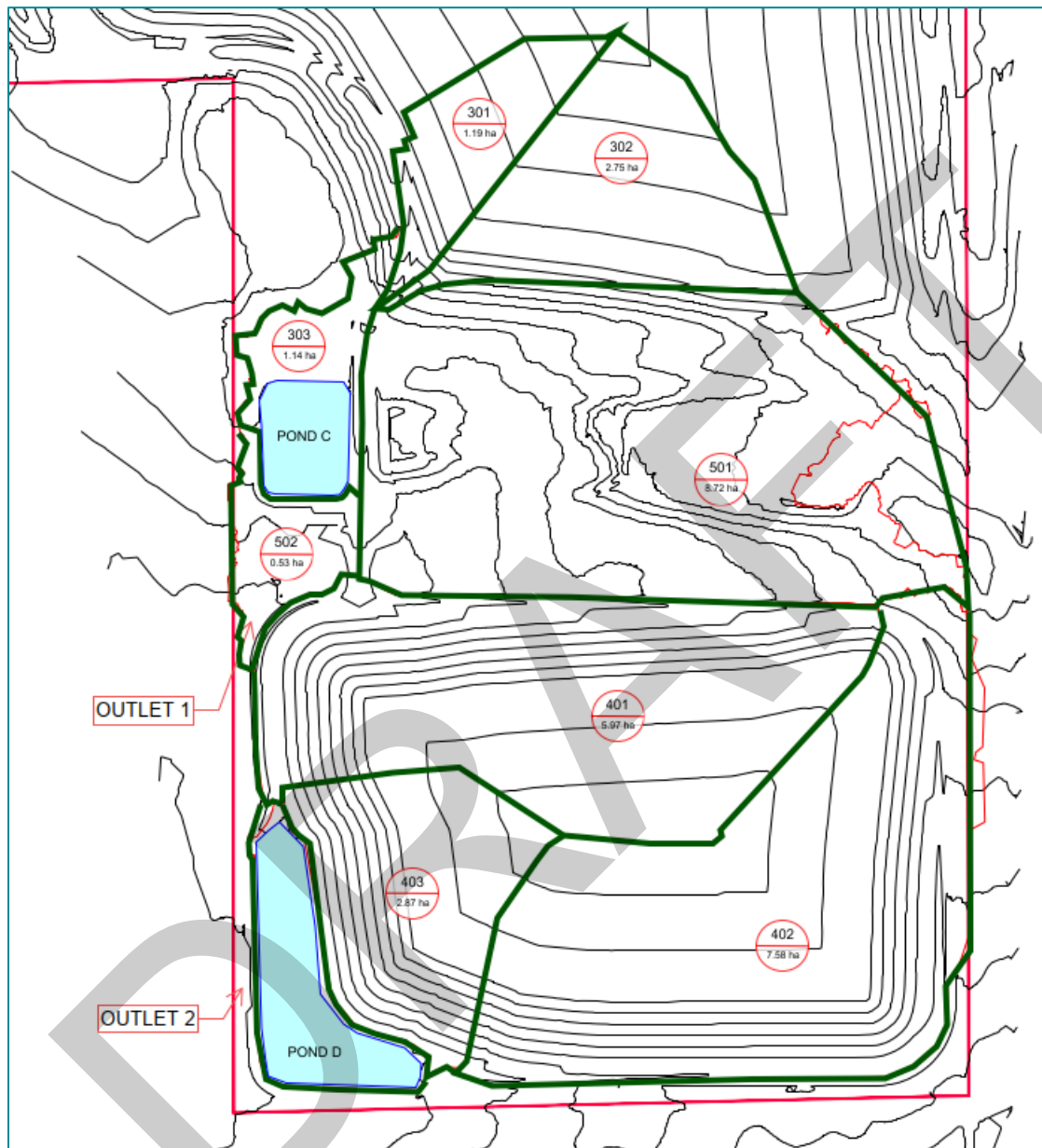
Under proposed conditions, we do not anticipate a significant increase in impervious cover on the South Fill Area. However, the South Fill Area will eventually be capped with a final closure cover. To be conservative, we assume the closure cover will be primarily impervious clay

material, and fill slopes will be steeper than existing conditions. The overall drainage area to the existing outlets is also expected to increase by approximately 5.25 ha. Therefore, increases in flows between the pre- and post-development conditions will need to be mitigated, and quantity controls are proposed. The proposed drainage areas are shown in Figure 3.

Two extended detention wet ponds are proposed for the South Fill Area, to provide quantity control, enhanced quality control, erosion control as well as providing runoff testing locations. Pond C will control the 101 outlet, while Pond D controls the 102 outlet. The pond sizes and locations are generally based on the previous 2007 design for Ponds C and D; however, Pond C was relocated to accommodate the Hydro corridor restrictions, and access road configuration. The grading configuration also results in uncontrolled area draining to the 101 (Pond C) outlet, consisting of undeveloped hydro corridor area. Pond C will be sized to overcontrol for this uncontrolled area. The proposed condition catchment parameters are summarized in Table 4.

**Table 4: Proposed Catchment Parameters**

| Catchment                      | Area (ha)    | Length (m) | Slope (%) | Curve Number CN | Regional Storm Curve Number CNIII | Initial Abstractions IA (mm) | Time to Peak (hr) |
|--------------------------------|--------------|------------|-----------|-----------------|-----------------------------------|------------------------------|-------------------|
| Pond C Outlet 1 (Controlled)   |              |            |           |                 |                                   |                              |                   |
| 301                            | 1.19         | 250        | 6.8       | 81              | 92                                | 6.8                          | 0.24              |
| 302                            | 2.75         | 185        | 5.9       | 81              | 92                                | 6.8                          | 0.21              |
| 303                            | 1.14         | 100        | 2.0       | 83              | 92                                | 5.6                          | 0.05              |
| Pond C Outlet 1 (Uncontrolled) |              |            |           |                 |                                   |                              |                   |
| 501                            | 8.72         | 420        | 3.3       | 71              | 86                                | 8.0                          | 0.42              |
| 502                            | 0.53         | 80         | 2.0       | 71              | 86                                | 8.0                          | 0.22              |
| <b>Total</b>                   | <b>14.33</b> |            |           |                 |                                   |                              |                   |
| Pond D Outlet 2 (Controlled)   |              |            |           |                 |                                   |                              |                   |
| 401                            | 5.97         | 150        | 10.0      | 81              | 92                                | 6.9                          | 0.16              |
| 402                            | 7.58         | 150        | 10.7      | 81              | 92                                | 6.9                          | 0.16              |
| 403                            | 2.87         | 170        | 16.5      | 81              | 92                                | 6.8                          | 0.15              |
| 404                            | 0.85         | 10         | 5.0       | 86              | 94                                | 4.8                          | 0.00              |
| <b>Total</b>                   | <b>17.27</b> |            |           |                 |                                   |                              |                   |
|                                |              |            |           |                 |                                   |                              |                   |
| <b>Total</b>                   | <b>31.60</b> |            |           |                 |                                   |                              |                   |

**Figure 3: Proposed Drainage Plan**

Utilizing the same hydrologic modelling and storms for comparison, the proposed uncontrolled peak flow rates are provided below in Table 5.

**Table 5: Proposed Peak Flow Summary – Unmitigated (m<sup>3</sup>/s)**

| Catchment                | 2-Year | 5-Year | 10-Year | 25-Year | 50-Year | 100-Year | 100-Year<br>CC |
|--------------------------|--------|--------|---------|---------|---------|----------|----------------|
| Pond C<br>Outlet 1       | 0.53   | 0.86   | 1.10    | 1.42    | 1.67    | 1.92     | 2.78           |
| Pond D<br>Outlet 2       | 1.25   | 1.98   | 2.49    | 3.15    | 3.64    | 4.13     | 5.82           |
| Combined<br>(Site Total) | 1.74   | 2.77   | 3.51    | 4.47    | 5.20    | 5.92     | 8.43           |

Two wet ponds (Ponds C and D) are proposed to provide quantity control, similar to the 2007 stormwater management design.

Pond C is to be constructed between the hydro easements, with a total active storage volume of 4,850 m<sup>3</sup>. The pond will control discharge through the following outlet controls:

- 75 mm diameter orifice at an invert equal to the permanent pool elevation (293.90 m) to provide extended detention.
- 200 mm diameter secondary orifice at an invert equal to the extended detention elevation (294.10 m) to control release rates up to the 100-year CC storm.
- 5.0 m wide overflow weir at an invert of 295.05 m to provide conveyance of the regional Hurricane Hazel storm through the pond, while maintaining a minimum 0.30 m freeboard to the top of pond (295.50 m).

**Table 6: Pond C Quantity Control Summary**

|                                  | 2-Year | 5-Year | 10-Year | 25-Year | 50-Year | 100-Year | 100-Year<br>CC |
|----------------------------------|--------|--------|---------|---------|---------|----------|----------------|
| Discharge<br>(m <sup>3</sup> /s) | 0.015  | 0.033  | 0.046   | 0.056   | 0.064   | 0.071    | 0.090          |
| Volume (m <sup>3</sup> )         | 877    | 1,309  | 1,625   | 2,080   | 2,431   | 2,792    | 4,086          |
| Elevation (m)                    | 294.20 | 294.30 | 294.40  | 294.55  | 294.65  | 294.70   | 295.05         |

The Hurricane Hazel event will discharge from the pond at a rate of 0.492 m<sup>3</sup>/s, at a ponding elevation of 295.20 m.

Pond D is to be constructed in the southwest corner of the south fill area, with a total active storage volume of 8,940 m<sup>3</sup>. The pond will control discharge through the following outlet controls:

- 90 mm diameter orifice at an invert equal to the permanent pool elevation (287.20 m) to provide extended detention.
- 2 x 675 mm diameter secondary orifices at an invert equal to the extended detention elevation (287.40 m) to control release rates up to the 100-year storm.

- 5.0 m wide overflow weir at an invert of 288.50 m to provide conveyance of the regional Hurricane Hazel storm through the pond, and control of the 100-year climate change storm, while maintaining a minimum 0.30 m freeboard to the top of pond (289.00 m).

**Table 7: Pond D Quantity Control Summary**

|                               | <b>2-Year</b> | <b>5-Year</b> | <b>10-Year</b> | <b>25-Year</b> | <b>50-Year</b> | <b>100-Year</b> | <b>100-Year CC</b> |
|-------------------------------|---------------|---------------|----------------|----------------|----------------|-----------------|--------------------|
| Discharge (m <sup>3</sup> /s) | 0.15          | 0.36          | 0.87           | 1.16           | 1.34           | 1.49            | 2.39               |
| Volume (m <sup>3</sup> )      | 2,335         | 3,222         | 3,866          | 4,763          | 5,468          | 6,191           | 8,476              |
| Elevation (m)                 | 287.70        | 287.85        | 287.95         | 288.10         | 288.20         | 288.35          | 288.65             |

The Hurricane Hazel event will discharge from the pond at a rate of 1.77 m<sup>3</sup>/s, at a ponding elevation of 288.55 m.

With the proposed stormwater management ponds to mitigate the increased stormwater runoff, proposed peak flow rates will be reduced to existing rates or less. This reduction is demonstrated for each outlet separately, and for the overall site.

**Table 8: Quantity Control Summary (m<sup>3</sup>/s)**

| <b>Outlet</b>              | <b>2-Year</b> | <b>5-Year</b> | <b>10-Year</b> | <b>25-Year</b> | <b>50-Year</b> | <b>100-Year</b> | <b>100-Year CC</b> |
|----------------------------|---------------|---------------|----------------|----------------|----------------|-----------------|--------------------|
| Pond C Outlet 1 (Existing) | 0.27          | 0.46          | 0.61           | 0.80           | 0.94           | 1.10            | 1.63               |
| Pond C Outlet 1 (Proposed) | 0.25          | 0.43          | 0.57           | 0.76           | 0.90           | 1.04            | 1.54               |
|                            |               |               |                |                |                |                 |                    |
| Pond D Outlet 2 (Existing) | 0.40          | 0.68          | 0.89           | 1.17           | 1.39           | 1.61            | 2.41               |
| Pond D Outlet 2 (Proposed) | 0.15          | 0.60          | 0.87           | 1.16           | 1.34           | 1.49            | 2.39               |
|                            |               |               |                |                |                |                 |                    |
| <b>Total Existing</b>      | <b>0.67</b>   | <b>1.14</b>   | <b>1.48</b>    | <b>1.95</b>    | <b>2.31</b>    | <b>2.68</b>     | <b>3.99</b>        |
| <b>Total Proposed</b>      | <b>0.37</b>   | <b>1.02</b>   | <b>1.44</b>    | <b>1.92</b>    | <b>2.23</b>    | <b>2.53</b>     | <b>3.92</b>        |

### 2.2.1 Stormwater Management Quality Control

Two wet ponds are proposed to provide enhanced quality control (80% TSS removal) based on criteria in the MOE Stormwater Management Planning & Design Manual, 2003 (SWMPDM).

Table 3.2 of the SWMPDM indicates a quality storage volume of 140 m<sup>3</sup>/ha for a 35% imperviousness, which has been conservatively applied to this Site (actual imperviousness is 5 to 6%, based on the access road area). Of the 140 m<sup>3</sup>/ha, 40 m<sup>3</sup>/ha is extended detention,

while the remaining 100 m<sup>3</sup>/ha represents the permanent pool. As a conservative approach, typical sediment pond volume of 125 m<sup>3</sup>/ha is proposed. The required extended detention volume is determined as the greater of 40 m<sup>3</sup>/ha or the runoff volume from the 25 mm storm.

### Pond C

- Catchment area = 5.08 ha
- Required Permanent Pool Volume = 125 m<sup>3</sup>/ha X 5.08 ha = 635 m<sup>3</sup>
- Provided Permanent Pool Volume = 2,358 m<sup>3</sup>
- 25 mm Storm Runoff Volume = 4.48 mm X 5.08 ha = 228 m<sup>3</sup>
- Required Extended Detention Volume = 40 m<sup>3</sup>/ha X 5.08 ha = 203 m<sup>3</sup>
- Provided Extended Detention Volume = 623 m<sup>3</sup>

The pond is approximately 86 m long, 53 m wide, with a 36.5 m long settling forebay at the inlet. The permanent pool is 1.0 m deep, in both the forebay and the main cell. This configuration will allow sediment to settle within the forebay, which can later be removed through scheduled maintenance. Side slopes are 5H:1V for 0.5 m above and below the permanent pool, and 3H:1V elsewhere.

A Hickenbottom riser outlet leads to a control manhole, including a 75 mm diameter orifice plate. This plate has been sized to provide an extended detention drawdown time of 56-hours, which exceeds the preferred 48-hour time specified in the SWMPDM. To provide protection from a potential leachate breakout, the outlet pipe is fitted with a gate valve which can be closed to prevent discharge from the pond. This will provide site staff with a reasonable amount of time to repair the source of the contamination, should it be raining at the time.

A 200 mm diameter orifice plate is proposed above the extended detention elevation to provide quantity control up to and including the 100-year storm, and a 5 m wide emergency overflow weir is provided above the 100-year storm to provide safe conveyance of the regional storm. An access road to the pond outlet is proposed from the existing north fill area road.

### Pond D

- Catchment area = 17.27 ha
- Required Permanent Pool Volume = 125 m<sup>3</sup>/ha X 17.27 ha = 2,159 m<sup>3</sup>
- Provided Permanent Pool Volume = 3,185 m<sup>3</sup>
- 25 mm Storm Runoff Volume = 4.12 mm X 17.27 ha = 712 m<sup>3</sup>
- Required Extended Detention Volume = 40 m<sup>3</sup>/ha X 17.27 ha = 691 m<sup>3</sup>
- Provided Extended Detention Volume = 917 m<sup>3</sup>

The legs of the L-shaped pond are approximately 100 m and 165 m long, 30 m wide, with two settling forebays at the inlets, approximately 50 m and 70 m in length. The permanent pool is 1.0 m deep, in both the forebay and the main cell. This configuration will allow sediment to

settle within the forebays, which can later be removed through scheduled maintenance. Side slopes are 5H:1V for 0.5 m above and below the permanent pool, and 3H:1V elsewhere.

A Hickenbottom riser outlet leads to a control manhole, including a 90 mm diameter orifice plate. This plate has been sized to provide an extended detention drawdown time of 55-hours, which exceeds the preferred 48-hour time specified in the SWMPDM. To provide protection from a potential leachate breakout, the outlet pipe is fitted with a gate valve which can be closed to prevent discharge from the pond. This will provide site staff with a reasonable amount of time to repair the source of the contamination, should it be raining at the time.

Two 675 mm diameter orifice plates are proposed above the extended detention elevation to provide quantity control up to and including the 100-year storm, and a 5 m wide emergency overflow weir is provided above the 100-year storm to provide safe conveyance of the regional storm. An access road to the pond outlet is proposed from the existing north fill area road.

### 3.0 Conveyance

#### 3.1 Swales

Perimeter swales are proposed to drain the south portion of the existing North Fill Area to Pond C, and around the South Fill Area to Pond D. In the 2007 Report, these swales were sized to convey the 25-year peak flow rates. Current standards require conveyance of the 100-year peak flows. As a conservative approach and to ensure longevity, the perimeter swales have been sized to convey the 100-year climate change storm, which increases the 100-year rainfall total by 30%.

The slopes of the various proposed swales range from 0.5% to 16%, as noted on the grading plans. For each swale segment, minimum depths were determined based on the minimum slopes, with an additional 0.15 m freeboard. Erosive slopes were identified where peak flow velocities are greater than 1.5 m/s, which is the threshold for grass cover. Where flow velocities exceed 1.5 m/s, riprap or similar erosion protection is proposed.

The swales will be trapezoidal in shape, with bottom widths ranging from 0.5 m to 1.0 m, and 3H:1V sideslopes. Swale conveyance calculations were completed with FlowMaster software, using flows calculated in the VO model. A summary of the swale calculations is provided in Table 9 below:

**Table 9: Swale Calculation Summary**

| Swale ID | Location            | 100-Year CC Flow (m <sup>3</sup> /s) | Bottom Width (m) | Slope Range (%) | Minimum Depth (m) | Erosive Slope (%) |
|----------|---------------------|--------------------------------------|------------------|-----------------|-------------------|-------------------|
| S1       | West of North Fill  | 0.32                                 | 0.5              | 6.2-12          | 0.40              | 5.0               |
| S2       | South of North Fill | 0.81                                 | 0.5              | 1.2-16          | 0.60              | 2.5               |

| Swale ID | Location            | 100-Year CC Flow (m <sup>3</sup> /s) | Bottom Width (m) | Slope Range (%) | Minimum Depth (m) | Erosive Slope (%) |
|----------|---------------------|--------------------------------------|------------------|-----------------|-------------------|-------------------|
| S3       | Inlet to Pond C     | 1.13                                 | 1.0              | 1.5-8           | 0.55              | 2.0               |
| S4       | North of South Fill | 1.01                                 | 0.5              | 1.8-5.8         | 0.55              | 2.5               |
| S5       | North of South Fill | 2.01                                 | 1.0              | 2-4.7           | 0.70              | 2.0               |
| S6       | West of South Fill  | 2.01                                 | 1.0              | 0.5             | 0.80              | N/A               |
| S7       | East of South Fill  | 1.28                                 | 0.5              | 1.1-2.7         | 0.65              | 2.0               |
| S8       | South of South Fill | 2.55                                 | 1.0              | 0.5-3.4         | 0.90              | 1.5               |

### 3.2 Culverts

Five culverts are proposed to direct runoff from the perimeter swales to the stormwater management ponds. Culverts were not considered in the previous 2007 Report. Current standards require conveyance of the 25-year peak flows. As a conservative approach and to ensure longevity, the culverts have been sized to convey the 100-year climate change storm, which increases the 100-year rainfall total by 30%.

For each culvert, full flow was assumed, and smooth-walled pipes are anticipated. Culvert conveyance calculations were completed with FlowMaster software, using flows calculated in the VO model. A summary of the swale calculations is provided in Table 10 below:

**Table 10: Culvert Calculation Summary**

| Swale ID | Location              | 100-Year CC Flow (m <sup>3</sup> /s) | Bottom Width (m) | Slope (%) | Size (mm) | Capacity (m <sup>3</sup> /s) |
|----------|-----------------------|--------------------------------------|------------------|-----------|-----------|------------------------------|
| P1       | Inlet to Pond C       | 1.13                                 | 0.5              | 5.9       | 600       | 1.49                         |
| P2       | South of Pond C       | 1.37                                 | 1.0              | 1.6       | 825       | 1.82                         |
| P3       | North of Pond D       | 2.01                                 | 1.0              | 1.6       | 900       | 2.29                         |
| P4       | North Inlet to Pond D | 2.01                                 | 0.5              | 0.5       | 1050      | 2.09                         |
| P5       | East Inlet to Pond D  | 2.55                                 | 1.0              | 3.5       | 825       | 2.69                         |

### 4.0 Conclusions and Recommendations

This Report demonstrates the stormwater management criteria for development of the South Fill Area can be achieved through the implementation of two extended detention wet ponds (Ponds C and D).

- Quantity control is provided to ensure the proposed peak flow rates for the 2- through 100-year storms are reduced to below existing flow rates at each outlet and the site total.

- Quality control is provided within the permanent pool volumes of the stormwater management ponds to achieve an enhanced quality level. Extended detention of the 25 mm storm is provided, exceeding the 48-hour preferred drawdown time.
- Conveyance of the 100-year storm is also provided through the swales and culverts leading to the proposed ponds. All stormwater designs accommodate the anticipated increases in flow due to climate change.

This report and associated drawings are submitted in support of the OWRA ECA amendment for the expansion into the south fill area of the Oxford County Waste Management Facility.



BURNSIDE

[THE DIFFERENCE IS OUR PEOPLE]

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## Appendix A

### Stormwater Management Hydrology Calculations

DRAFT



# BURNSIDE

Project: Oxford County Waste Facility - South Fill Area  
Project No: 300058964

## OTTHYMO MODEL DATA - NASHYD COMMANDS

By: H. Faulkner  
Date: 12-Sep-25

| Catchment  | Area<br>(ha) | L<br>(m) | S<br>(%) | CN | CN<br>(AMCIII) | IA<br>(mm) | $t_p$<br>(hr) | DT<br>(min) |
|------------|--------------|----------|----------|----|----------------|------------|---------------|-------------|
| 101        | 9.85         | 450      | 4.9      | 71 | 86             | 8.0        | 0.39          | 5           |
| 102        | 16.50        | 600      | 4.2      | 71 | 86             | 8.0        | 0.47          | 6           |
|            |              |          |          |    |                |            |               |             |
| Total Area | 26.35        |          |          |    |                |            |               |             |

| Catchment  | Area<br>(ha) | L<br>(m) | S<br>(%) | CN | CN<br>(AMCIII) | IA<br>(mm) | $t_p$<br>(hr) | DT<br>(min) |
|------------|--------------|----------|----------|----|----------------|------------|---------------|-------------|
| 301        | 1.19         | 250      | 6.8      | 81 | 92             | 6.8        | 0.24          | 3           |
| 302        | 2.75         | 185      | 5.9      | 81 | 92             | 6.8        | 0.21          | 3           |
| 303        | 1.14         | 100      | 2.0      | 83 | 92             | 5.6        | 0.05          | 2           |
|            |              |          |          |    |                |            |               |             |
| 401        | 5.97         | 150      | 10.0     | 81 | 92             | 6.9        | 0.16          | 2           |
| 402        | 7.58         | 150      | 10.7     | 81 | 92             | 6.9        | 0.16          | 2           |
| 403        | 2.87         | 170      | 16.5     | 81 | 92             | 6.8        | 0.15          | 2           |
| 404        | 0.85         | 10       | 5.0      | 86 | 94             | 4.8        | 0.00          | 2           |
|            |              |          |          |    |                |            |               |             |
| 501        | 8.72         | 420      | 3.3      | 71 | 86             | 8.0        | 0.42          | 5           |
| 502        | 0.53         | 80       | 2.0      | 71 | 86             | 8.0        | 0.22          | 3           |
|            |              |          |          |    |                |            |               |             |
| Total Area | 31.60        |          |          |    |                |            |               |             |

Summarize Site Conditions Below (soil, land use, etc)

Huron Clay Loam                      Group C  
All Grass/Field

| Land Use or Surface | CN  | IA<br>(mm) | C    |
|---------------------|-----|------------|------|
| Meadow (C)          | 71  | 8          | 0.25 |
| Fill Cover (D)      | 81  | 7          | 0.30 |
| Impervious          | 100 | 2          | 0.90 |

Airport Equation (When  $C < 0.40$ )

$$T_c = 3.26 \times (1.1 - C) \times L^{0.50} \times S_w^{-0.33}$$

Bransby-Williams Formula (When  $C > 0.40$ )

$$T_c = 0.057 \times L \times S_w^{-0.20} \times A^{-0.10}$$

| Catchment | Equation         | $T_c$<br>(minutes) | $T_p$ (2/3 $T_c$ )<br>(minutes) | $T_p$<br>(hours) |
|-----------|------------------|--------------------|---------------------------------|------------------|
| 101       | Airport          | 34.82              | 23.21                           | 0.39             |
| 102       | Airport          | 42.38              | 28.25                           | 0.47             |
|           |                  |                    |                                 |                  |
| 301       | Airport          | 21.30              | 14.20                           | 0.24             |
| 302       | Airport          | 19.10              | 12.74                           | 0.21             |
| 303       | Bransby-Williams | 4.90               | 3.27                            | 0.05             |
|           |                  |                    |                                 |                  |
| 401       | Airport          | 14.51              | 9.67                            | 0.16             |
| 402       | Airport          | 14.23              | 9.49                            | 0.16             |
| 403       | Airport          | 13.10              | 8.73                            | 0.15             |
| 404       | Bransby-Williams | 0.42               | 0.28                            | 0.00             |
|           |                  |                    |                                 |                  |
| 501       | Airport          | 38.17              | 25.45                           | 0.42             |
| 502       | Airport          | 19.72              | 13.14                           | 0.22             |
|           |                  |                    |                                 |                  |

|      |
|------|
| EX C |
| EX D |

POND C

5.08

POND D

17.27

UNCONTROLLED

9.25

| Catchment | Meadow (C)<br>Area<br>(ha) | Fill Cover (D)<br>Area<br>(ha) | Impervious<br>Area<br>(ha) | Weighted |            |      |
|-----------|----------------------------|--------------------------------|----------------------------|----------|------------|------|
|           |                            |                                |                            | CN       | IA<br>(mm) | C    |
| 101       | 9.85                       |                                |                            | 71.0     | 8.0        | 0.25 |
| 102       | 16.50                      |                                |                            | 71.0     | 8.0        | 0.25 |
|           |                            |                                |                            |          |            |      |
|           |                            |                                |                            |          |            |      |
|           |                            |                                |                            |          |            |      |
|           |                            |                                |                            |          |            |      |
| 301       | 0.07                       | 1.07                           | 0.05                       | 81.2     | 6.8        | 0.32 |
| 302       | 0.18                       | 2.45                           | 0.13                       | 81.2     | 6.8        | 0.32 |
| 303       | 0.69                       | 0.00                           | 0.46                       | 82.6     | 5.6        | 0.51 |
|           |                            |                                |                            |          |            |      |
| 401       | 0.43                       | 5.27                           | 0.27                       | 81.1     | 6.9        | 0.32 |
| 402       | 0.43                       | 6.84                           | 0.31                       | 81.2     | 6.9        | 0.32 |
| 403       | 0.18                       | 2.57                           | 0.13                       | 81.2     | 6.8        | 0.32 |
| 404       | 0.40                       | 0.00                           | 0.45                       | 86.4     | 4.8        | 0.59 |
|           |                            |                                |                            |          |            |      |
| 501       | 8.72                       | 0.00                           | 0.00                       | 71.0     | 8.0        | 0.25 |
| 502       | 0.53                       | 0.00                           | 0.00                       | 71.0     | 8.0        | 0.25 |
|           |                            |                                |                            |          |            |      |



# BURNSIDE

## POND C WET POND STAGE-STORAGE-DISCHARGE

Project: Oxford County Waste Facility - South Fill Area  
Project No: 300058964 0

By: H. Faulkner  
Date: 12-Sep-25

|                        |         |                          |          |                              |        |
|------------------------|---------|--------------------------|----------|------------------------------|--------|
| <b>Primary Orifice</b> |         | <b>Secondary Orifice</b> |          | <b>Overflow Weir Details</b> |        |
| RADIUS=                | 0.038 m | RADIUS=                  | 0.100 m  | Height                       | 1.15 m |
| Outlet Dia=            | 75.0 mm | Outlet Dia=              | 200.0 mm | Length                       | 5.00 m |
| Height=                | 0.00 m  | Height=                  | 0.20 m   | Coefficient                  | 1.705  |

| Tributary Area:                |                | 5.08 ha            |                      | Extended Detention: |                  | 25mm RV   | 228 m³                   |                  |
|--------------------------------|----------------|--------------------|----------------------|---------------------|------------------|-----------|--------------------------|------------------|
| Permanent Pool:                | Required       | 635 m³             |                      |                     |                  | 40 m3/ha  | 203.2 m³                 |                  |
|                                | Provided       | 2,358 m³           |                      |                     |                  | Provided  | 623 m³                   |                  |
| ACTIVE<br>DETENTION<br>STORAGE | WATER<br>DEPTH | PRIMARY<br>ORIFICE | SECONDARY<br>ORIFICE | OUTFLOW<br>WEIR     | TOTAL<br>OUTFLOW | ELEVATION |                          |                  |
| m³                             | m              | m³/s               | m³/s                 | m³/s                | m³/s             | m         |                          |                  |
| 0                              | 0.00           | 0.000              | 0.000                | 0.000               | 0.000            | 293.90    | Permanent Pool Elevation |                  |
| 151                            | 0.05           | 0.001              | 0.000                | 0.000               | 0.001            | 293.95    |                          |                  |
| 305                            | 0.10           | 0.003              | 0.000                | 0.000               | 0.003            | 294.00    |                          |                  |
| 462                            | 0.15           | 0.004              | 0.000                | 0.000               | 0.004            | 294.05    |                          |                  |
| 623                            | 0.20           | 0.005              | 0.000                | 0.000               | 0.005            | 294.10    | Ext. Detention           | Secondary Outlet |
| 787                            | 0.25           | 0.006              | 0.001                | 0.000               | 0.007            | 294.15    |                          |                  |
| 954                            | 0.30           | 0.006              | 0.005                | 0.000               | 0.011            | 294.20    | 2-Year                   |                  |
| 1,124                          | 0.35           | 0.007              | 0.019                | 0.000               | 0.026            | 294.25    |                          |                  |
| 1,297                          | 0.40           | 0.007              | 0.027                | 0.000               | 0.035            | 294.30    | 5-Year                   |                  |
| 1,474                          | 0.45           | 0.008              | 0.033                | 0.000               | 0.041            | 294.35    |                          |                  |
| 1,654                          | 0.50           | 0.008              | 0.039                | 0.000               | 0.047            | 294.40    | 10-Year                  |                  |
| 1,837                          | 0.55           | 0.009              | 0.043                | 0.000               | 0.052            | 294.45    |                          |                  |
| 2,024                          | 0.60           | 0.009              | 0.047                | 0.000               | 0.056            | 294.50    |                          |                  |
| 2,212                          | 0.65           | 0.009              | 0.051                | 0.000               | 0.061            | 294.55    | 25-Year                  |                  |
| 2,403                          | 0.70           | 0.010              | 0.055                | 0.000               | 0.064            | 294.60    |                          |                  |
| 2,596                          | 0.75           | 0.010              | 0.058                | 0.000               | 0.068            | 294.65    | 50-Year                  |                  |
| 2,791                          | 0.80           | 0.011              | 0.061                | 0.000               | 0.072            | 294.70    | 100-Year                 |                  |
| 2,988                          | 0.85           | 0.011              | 0.064                | 0.000               | 0.075            | 294.75    |                          |                  |
| 3,187                          | 0.90           | 0.011              | 0.067                | 0.000               | 0.078            | 294.80    |                          |                  |
| 3,388                          | 0.95           | 0.012              | 0.070                | 0.000               | 0.081            | 294.85    |                          |                  |
| 3,591                          | 1.00           | 0.012              | 0.072                | 0.000               | 0.084            | 294.90    |                          |                  |
| 3,796                          | 1.05           | 0.012              | 0.075                | 0.000               | 0.087            | 294.95    |                          |                  |
| 4,003                          | 1.10           | 0.012              | 0.077                | 0.000               | 0.090            | 295.00    |                          |                  |
| 4,212                          | 1.15           | 0.013              | 0.080                | 0.000               | 0.092            | 295.05    | CC 100-Year              | Overflow Weir    |
| 4,423                          | 1.20           | 0.013              | 0.082                | 0.095               | 0.190            | 295.10    |                          |                  |
| 4,636                          | 1.25           | 0.013              | 0.084                | 0.270               | 0.367            | 295.15    |                          |                  |
| 4,851                          | 1.30           | 0.014              | 0.086                | 0.495               | 0.595            | 295.20    | Regional                 |                  |
| 5,068                          | 1.35           | 0.014              | 0.088                | 0.762               | 0.865            | 295.25    |                          |                  |
| 5,287                          | 1.40           | 0.014              | 0.090                | 1.066               | 1.170            | 295.30    |                          |                  |
| 5,508                          | 1.45           | 0.014              | 0.092                | 1.401               | 1.508            | 295.35    |                          |                  |
| 5,731                          | 1.50           | 0.015              | 0.094                | 1.765               | 1.874            | 295.40    |                          |                  |
| 5,956                          | 1.55           | 0.015              | 0.096                | 2.157               | 2.268            | 295.45    |                          |                  |
| 6,182                          | 1.60           | 0.015              | 0.098                | 2.573               | 2.687            | 295.50    | Top of Pond              |                  |

Orifice Outflow equation is for orifice flow given by:  $Q=0.62A(2gH)^{0.5}$  - Where ponding elevation is above orifice centroid

$[0.494*[H/(D/1000)]^{1.57} - 0.04*[H/(D/1000)]^{0.5}] * 0.80 * 9.81^{1/2} * D^{5/2}$  - Where ponding elevation is at or below orifice centroid

Flow over the top of the weir is given by sum of weir flows  $Q=1.705LH^{1.5}$

Where:

Q=flow m<sup>3</sup>/s

H=head m

Orifice head measured from water depth to orifice centroid (where ponding elevation is above orifice centroid).

Orifice head measured from water depth to orifice invert (where ponding elevation is at or below orifice centroid).

Weir head = depth from weir crest to water level

D=orifice diameter m

L=weir length m

g=9.81 m/s<sup>2</sup>

A=Area of orifice opening m<sup>2</sup>

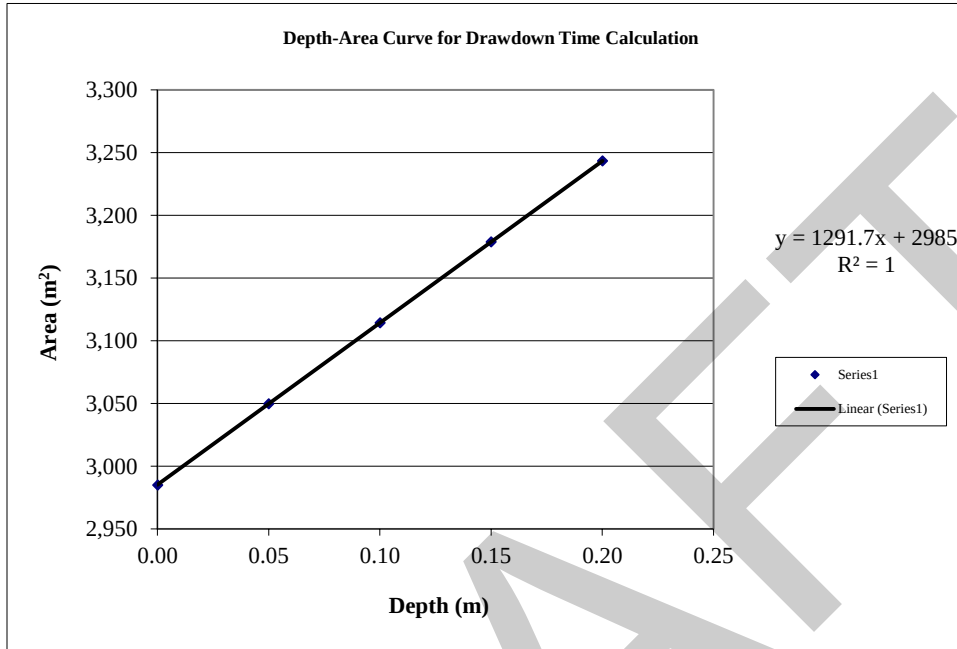


# BURNSIDE

## POND C EXTENDED DETENTION DRAWDOWN TIME

Project: Oxford County Waste Facility - South Fill Area  
Project No: 300058964

By: H. Faulkner  
Date: 12-Sep-25



|                                                             | Elevation<br>(m)   | Depth<br>(m) | Area<br>(m <sup>2</sup> ) |
|-------------------------------------------------------------|--------------------|--------------|---------------------------|
| Extended Detention Orifice Invert                           | 293.90 m           |              |                           |
| Extended Detention Elevation                                | 294.10 m           | 0.00         | 2,985                     |
| (25mm runoff or 40m <sup>3</sup> /ha active volume in pond) | 293.95             | 0.05         | 3,050                     |
| Provided Extended Detention Volume                          | 623 m <sup>3</sup> | 0.10         | 3,114                     |
|                                                             |                    | 0.15         | 3,179                     |
|                                                             |                    | 0.20         | 3,243                     |

Drawdown Equation

C2 1,292  
C3 2,985  
h 0.16  
Ao 0.00442

$$t = \frac{2462.43}{0.01} \text{ MOE SWM Manual Equation 4.11}$$

$$t = 202,683 \text{ seconds}$$

**56.30 hours**



# BURNSIDE

## POND D WET POND STAGE-STORAGE-DISCHARGE

Project: Oxford County Waste Facility - South Fill Area  
Project No: 300058964

By: H. Faulkner  
Date: 12-Sep-25

|                        |         |                          |          |                              |        |
|------------------------|---------|--------------------------|----------|------------------------------|--------|
| <b>Primary Orifice</b> |         | <b>Secondary Orifice</b> |          | <b>Overflow Weir Details</b> |        |
| RADIUS=                | 0.045 m | RADIUS=                  | 0.338 m  | Height                       | 1.30 m |
| Outlet Dia=            | 90.0 mm | Outlet Dia=              | 675.0 mm | Length                       | 5.00 m |
| Height=                | 0.00 m  | Height=                  | 0.20 m   | Coefficient                  | 1.705  |

|                          |                      |                     |                       |                      |
|--------------------------|----------------------|---------------------|-----------------------|----------------------|
| Tributary Area:          | 17.27 ha             | Extended Detention: | 25mm RV               | 712 m <sup>3</sup>   |
| Permanent Pool: Required | 2,159 m <sup>3</sup> |                     | 40 m <sup>3</sup> /ha | 690.8 m <sup>3</sup> |
| Provided                 | 3,185 m <sup>3</sup> |                     | Provided              | 917 m <sup>3</sup>   |

| ACTIVE<br>DETENTION<br>STORAGE | WATER<br>DEPTH | PRIMARY<br>ORIFICE | SECOND<br>ORIFICE | THIRD<br>ORIFICE  | OUTFLOW<br>WEIR   | TOTAL<br>OUTFLOW  | ELEVATION |                                 |
|--------------------------------|----------------|--------------------|-------------------|-------------------|-------------------|-------------------|-----------|---------------------------------|
| m <sup>3</sup>                 | m              | m <sup>3</sup> /s  | m <sup>3</sup> /s | m <sup>3</sup> /s | m <sup>3</sup> /s | m <sup>3</sup> /s | m         |                                 |
| 0                              | 0.00           | 0.000              | 0.000             | 0.000             | 0.000             | 0.000             | 287.20    | Permanent Pool Elevation        |
| 220                            | 0.05           | 0.001              | 0.000             | 0.000             | 0.000             | 0.001             | 287.25    |                                 |
| 446                            | 0.10           | 0.004              | 0.000             | 0.000             | 0.000             | 0.004             | 287.30    |                                 |
| 679                            | 0.15           | 0.006              | 0.000             | 0.000             | 0.000             | 0.006             | 287.35    |                                 |
| 917                            | 0.20           | 0.007              | 0.000             | 0.000             | 0.000             | 0.007             | 287.40    | Ext. Detention Secondary Outlet |
| 1,162                          | 0.25           | 0.008              | -0.002            | -0.002            | 0.000             | 0.004             | 287.45    |                                 |
| 1,414                          | 0.30           | 0.009              | 0.007             | 0.007             | 0.000             | 0.022             | 287.50    |                                 |
| 1,671                          | 0.35           | 0.010              | 0.020             | 0.020             | 0.000             | 0.050             | 287.55    |                                 |
| 1,935                          | 0.40           | 0.010              | 0.037             | 0.037             | 0.000             | 0.085             | 287.60    |                                 |
| 2,206                          | 0.45           | 0.011              | 0.058             | 0.058             | 0.000             | 0.127             | 287.65    |                                 |
| 2,482                          | 0.50           | 0.012              | 0.081             | 0.081             | 0.000             | 0.174             | 287.70    | 2-Year                          |
| 2,765                          | 0.55           | 0.012              | 0.110             | 0.110             | 0.000             | 0.232             | 287.75    |                                 |
| 3,054                          | 0.60           | 0.013              | 0.246             | 0.246             | 0.000             | 0.504             | 287.80    |                                 |
| 3,348                          | 0.65           | 0.014              | 0.329             | 0.329             | 0.000             | 0.672             | 287.85    | 5-Year                          |
| 3,646                          | 0.70           | 0.014              | 0.396             | 0.396             | 0.000             | 0.806             | 287.90    |                                 |
| 3,948                          | 0.75           | 0.015              | 0.453             | 0.453             | 0.000             | 0.920             | 287.95    | 10-Year                         |
| 4,253                          | 0.80           | 0.015              | 0.503             | 0.503             | 0.000             | 1.022             | 288.00    |                                 |
| 4,563                          | 0.85           | 0.016              | 0.549             | 0.549             | 0.000             | 1.114             | 288.05    |                                 |
| 4,876                          | 0.90           | 0.016              | 0.591             | 0.591             | 0.000             | 1.199             | 288.10    | 25-Year                         |
| 5,194                          | 0.95           | 0.017              | 0.631             | 0.631             | 0.000             | 1.278             | 288.15    |                                 |
| 5,515                          | 1.00           | 0.017              | 0.668             | 0.668             | 0.000             | 1.353             | 288.20    | 50-Year                         |
| 5,840                          | 1.05           | 0.018              | 0.703             | 0.703             | 0.000             | 1.424             | 288.25    |                                 |
| 6,169                          | 1.10           | 0.018              | 0.737             | 0.737             | 0.000             | 1.491             | 288.30    |                                 |
| 6,502                          | 1.15           | 0.018              | 0.769             | 0.769             | 0.000             | 1.556             | 288.35    | 100-Year                        |
| 6,838                          | 1.20           | 0.019              | 0.799             | 0.799             | 0.000             | 1.618             | 288.40    |                                 |
| 7,179                          | 1.25           | 0.019              | 0.829             | 0.829             | 0.000             | 1.677             | 288.45    |                                 |
| 7,523                          | 1.30           | 0.020              | 0.858             | 0.858             | 0.000             | 1.735             | 288.50    | Overflow Weir                   |
| 7,872                          | 1.35           | 0.020              | 0.885             | 0.885             | 0.095             | 1.886             | 288.55    | Regional                        |
| 8,224                          | 1.40           | 0.020              | 0.912             | 0.912             | 0.270             | 2.114             | 288.60    |                                 |
| 8,580                          | 1.45           | 0.021              | 0.938             | 0.938             | 0.495             | 2.393             | 288.65    | CC 100-Year                     |
| 8,940                          | 1.50           | 0.021              | 0.964             | 0.964             | 0.762             | 2.711             | 288.70    |                                 |
| 9,304                          | 1.55           | 0.021              | 0.988             | 0.988             | 1.066             | 3.064             | 288.75    |                                 |
| 9,671                          | 1.60           | 0.022              | 1.012             | 1.012             | 1.401             | 3.448             | 288.80    |                                 |
| 10,043                         | 1.65           | 0.022              | 1.036             | 1.036             | 1.765             | 3.859             | 288.85    |                                 |
| 10,418                         | 1.70           | 0.022              | 1.059             | 1.059             | 2.157             | 4.297             | 288.90    |                                 |
| 10,798                         | 1.75           | 0.023              | 1.082             | 1.082             | 2.573             | 4.759             | 288.95    |                                 |
| 11,181                         | 1.80           | 0.023              | 1.104             | 1.104             | 3.014             | 5.244             | 289.00    | Top of Pond                     |

Orifice Outflow equation is for orifice flow given by:  $Q=0.62A(2gH)^{0.5}$  - Where ponding elevation is above orifice centroid

$[0.494*[H/(D/1000)]^{1.57} - 0.04*[H/(D/1000)]^{0.5}] * 0.80 * 9.81^{1/2} * D^{5/2}$  - Where ponding elevation is at or below orifice centroid

Flow over the top of the weir is given by sum of weir flows

$Q=1.705LH^{1.5}$

Where:

Q=flow m<sup>3</sup>/s

H=head m

Orifice head measured from water depth to orifice centroid (where ponding elevation is above orifice centroid).

Orifice head measured from water depth to orifice invert (where ponding elevation is at or below orifice centroid).

Weir head = depth from weir crest to water level

D=orifice diameter

m

L=weir length

m

g=9.81

m/s<sup>2</sup>

A=Area of orifice opening

m<sup>2</sup>

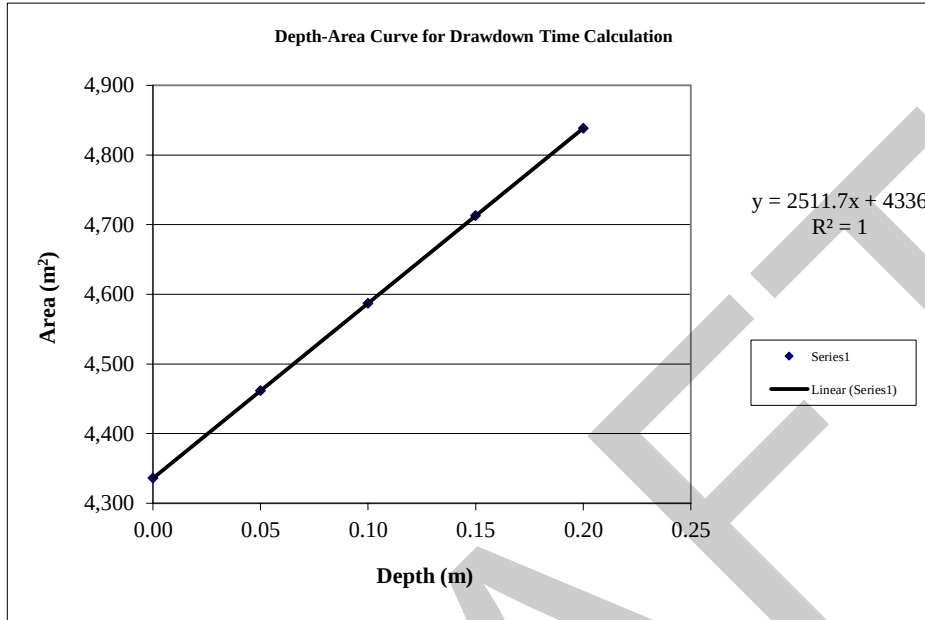


# BURNSIDE

## POND D EXTENDED DETENTION DRAWDOWN TIME

Project: Oxford County Waste Facility - South Fill Area  
Project No: 300058964

By: H. Faulkner  
Date: 12-Sep-25



|                                                             | Elevation<br>(m)   | Depth<br>(m) | Area<br>(m <sup>2</sup> ) |
|-------------------------------------------------------------|--------------------|--------------|---------------------------|
| Extended Detention Orifice Invert                           | 287.20 m           |              |                           |
| Extended Detention Elevation                                | 287.40 m           | 0.00         | 4,336                     |
| (25mm runoff or 40m <sup>3</sup> /ha active volume in pond) |                    | 0.05         | 4,462                     |
| Provided Extended Detention Volume                          | 917 m <sup>3</sup> | 0.10         | 4,587                     |
|                                                             |                    | 0.15         | 4,713                     |
|                                                             |                    | 0.20         | 4,838                     |

|                   |         |
|-------------------|---------|
| Drawdown Equation |         |
| C2                | 2,512   |
| C3                | 4,336   |
| h                 | 0.15    |
| Ao                | 0.00636 |

$$t = \frac{3515.33}{0.02} \text{ MOE SWM Manual Equation 4.11}$$

$$t = \frac{200,936 \text{ seconds}}{55.82 \text{ hours}}$$



BURNSIDE

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## Appendix B

### Stormwater Management Hydraulics Calculations



# BURNSIDE

## SWALE CONVEYANCE CALCULATIONS

Project: Oxford County Waste Facility - South Fill Area  
Project No: 300058964

By: H. Faulkner  
Date: 12-Sep-25

| Swale ID | Location            | Catchments | OTTHYMO<br>Command | Area<br>(ha) | 100yr<br>Flow (m <sup>3</sup> /s) | CC 100yr<br>Flow (m <sup>3</sup> /s) | Bottom<br>Width (m) | Slope Range | Min. Depth**<br>(m) | Erosive<br>Slope*** |
|----------|---------------------|------------|--------------------|--------------|-----------------------------------|--------------------------------------|---------------------|-------------|---------------------|---------------------|
| S1       | West of North Fill  | C1         | 301                | 1.19         | 0.23                              | 0.32                                 | 0.5                 | 6.2% - 12%  | 0.40                | 5%                  |
| S2       | South of North Fill | C2         | 302                | 2.75         | 0.57                              | 0.81                                 | 0.5                 | 1.2% - 16%  | 0.60                | 2.50%               |
| S3       | Inlet to Pond C     | C1 + C2    | ADDHYD30           | 3.94         | 0.80                              | 1.13                                 | 1                   | 1.5% - 8%   | 0.55                | 2%                  |
| S4       | North of South Fill | (1/2) D1   | 401                | 2.99         | 0.71                              | 1.01                                 | 0.5                 | 1.8% - 5.8% | 0.55                | 2.50%               |
| S5       | North of South Fill | D1         | 401                | 5.97         | 1.42                              | 2.01                                 | 1                   | 2% - 4.7%   | 0.70                | 2.0%                |
| S6       | West of South Fill  | D1         | 401                | 5.97         | 1.42                              | 2.01                                 | 1                   | 0.5%        | 0.80                | n/a                 |
| S7       | East of South Fill  | (1/2) D2   | 402                | 3.79         | 0.91                              | 1.28                                 | 0.5                 | 1.1% - 2.7% | 0.65                | 2.0%                |
| S8       | South of South Fill | D2         | 402                | 7.58         | 1.81                              | 2.55                                 | 1                   | 0.5% - 3.4% | 0.90                | 1.5%                |

| Culvert ID | Location           | Catchments | OTTHYMO<br>Command | Area<br>(ha) | 100yr<br>Flow (m <sup>3</sup> /s) | CC 100yr<br>Flow (m <sup>3</sup> /s) | Inlet Elev<br>(m) | Outlet Elev<br>(m) | Length<br>(m) | Slope | Size<br>(mm) | Capacity<br>Flow (m <sup>3</sup> /s) |
|------------|--------------------|------------|--------------------|--------------|-----------------------------------|--------------------------------------|-------------------|--------------------|---------------|-------|--------------|--------------------------------------|
| P1         | Inlet to Pond C    | C1 + C2    | ADDHYD30           | 3.94         | 0.80                              | 1.13                                 | 298.66            | 297.16             | 25.6          | 5.9%  | 600          | 1.49                                 |
| P2         | South of Pond C    | U1         | 501                | 8.72         | 0.92                              | 1.37                                 | 291.10            | 290.67             | 27.0          | 1.6%  | 825          | 1.82                                 |
| P3         | North of Pond D    | D1         | 401                | 5.97         | 1.42                              | 2.01                                 | 291.00            | 290.60             | 24.9          | 1.6%  | 900          | 2.29                                 |
| P4         | North Inlet Pond D | D1         | 401                | 5.97         | 1.42                              | 2.01                                 | 289.19            | 289.04             | 29.4          | 0.5%  | 1050         | 2.09                                 |
| P5         | East Inlet Pond D  | D2         | 402                | 7.58         | 1.81                              | 2.55                                 | 290.86            | 289.41             | 41.9          | 3.5%  | 825          | 2.69                                 |

\* All swales assumed to have 3H:1V sideslopes, grassed Manning's coefficient of 0.035

\*\* Minimum depth determined using minimum swale slope

\*\*\* Slope at which velocity exceeds 1.5 m/s. Rip-rap erosion protection required at slopes greater than this.



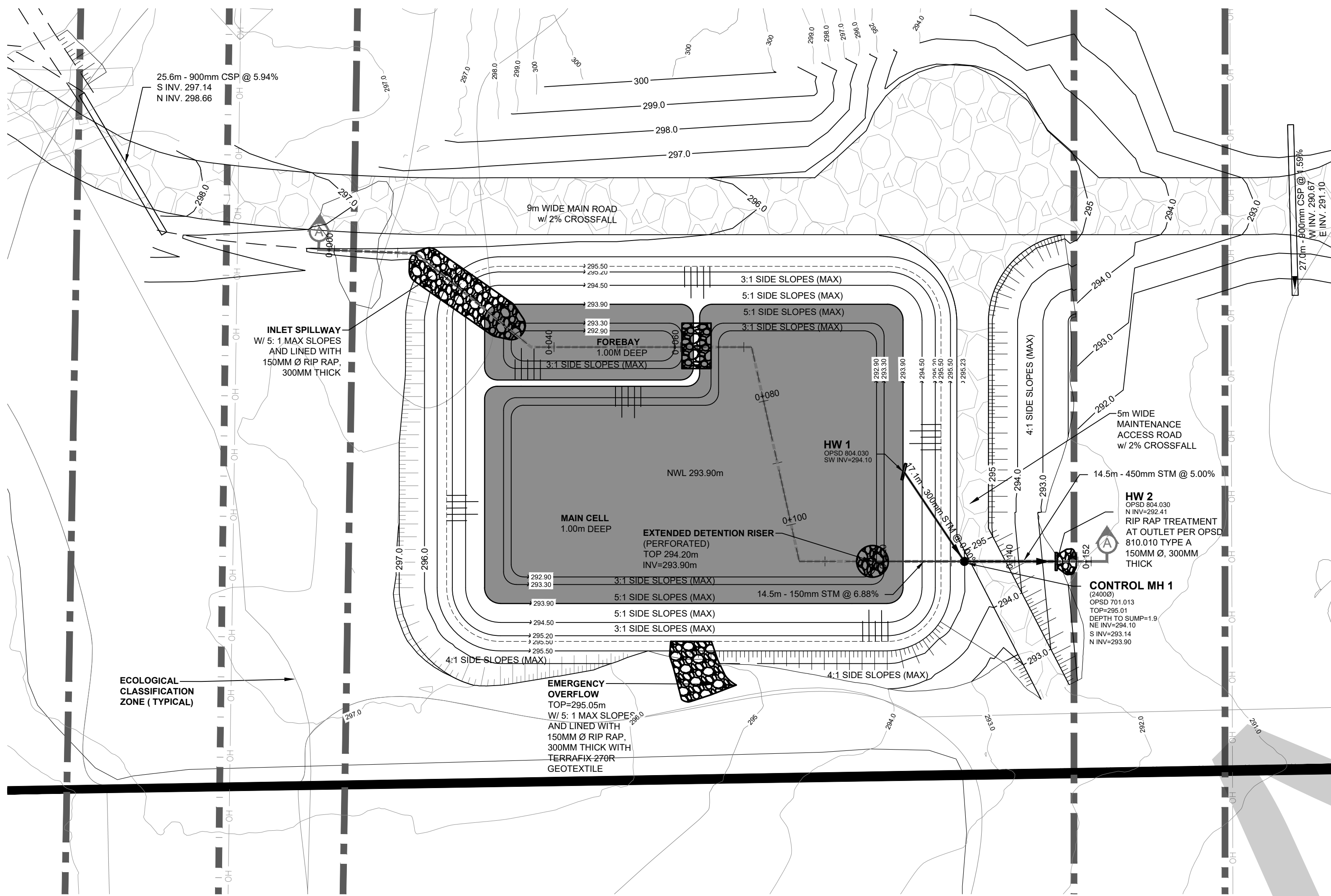
# BURNSIDE

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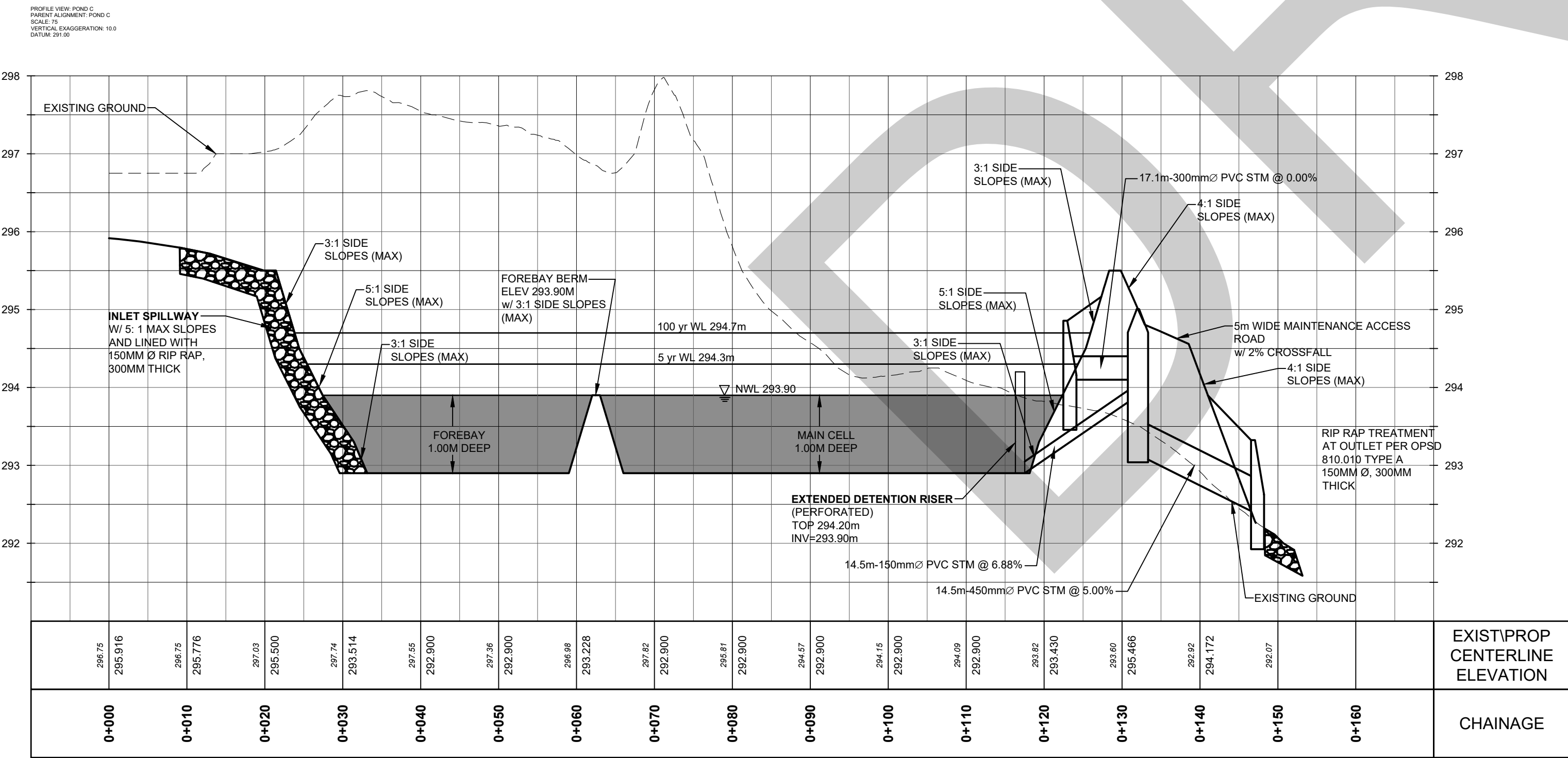
Appendix C

Drawings

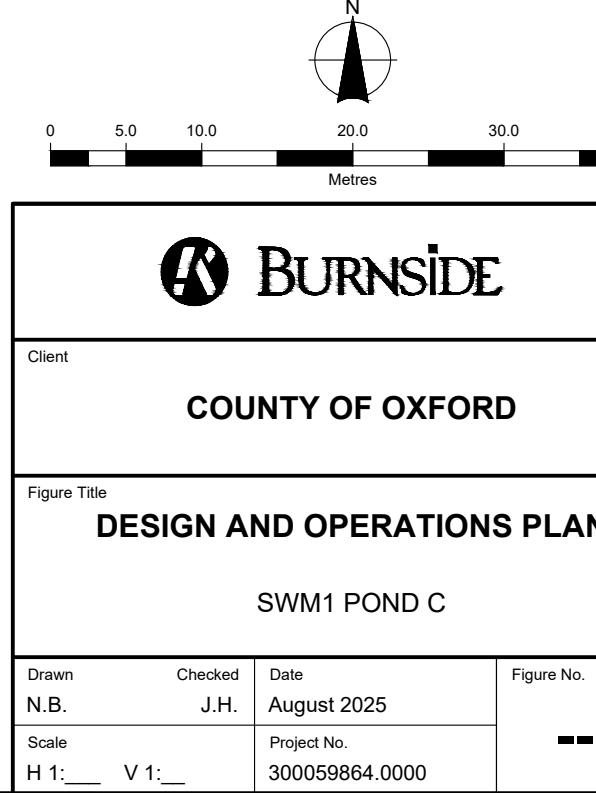
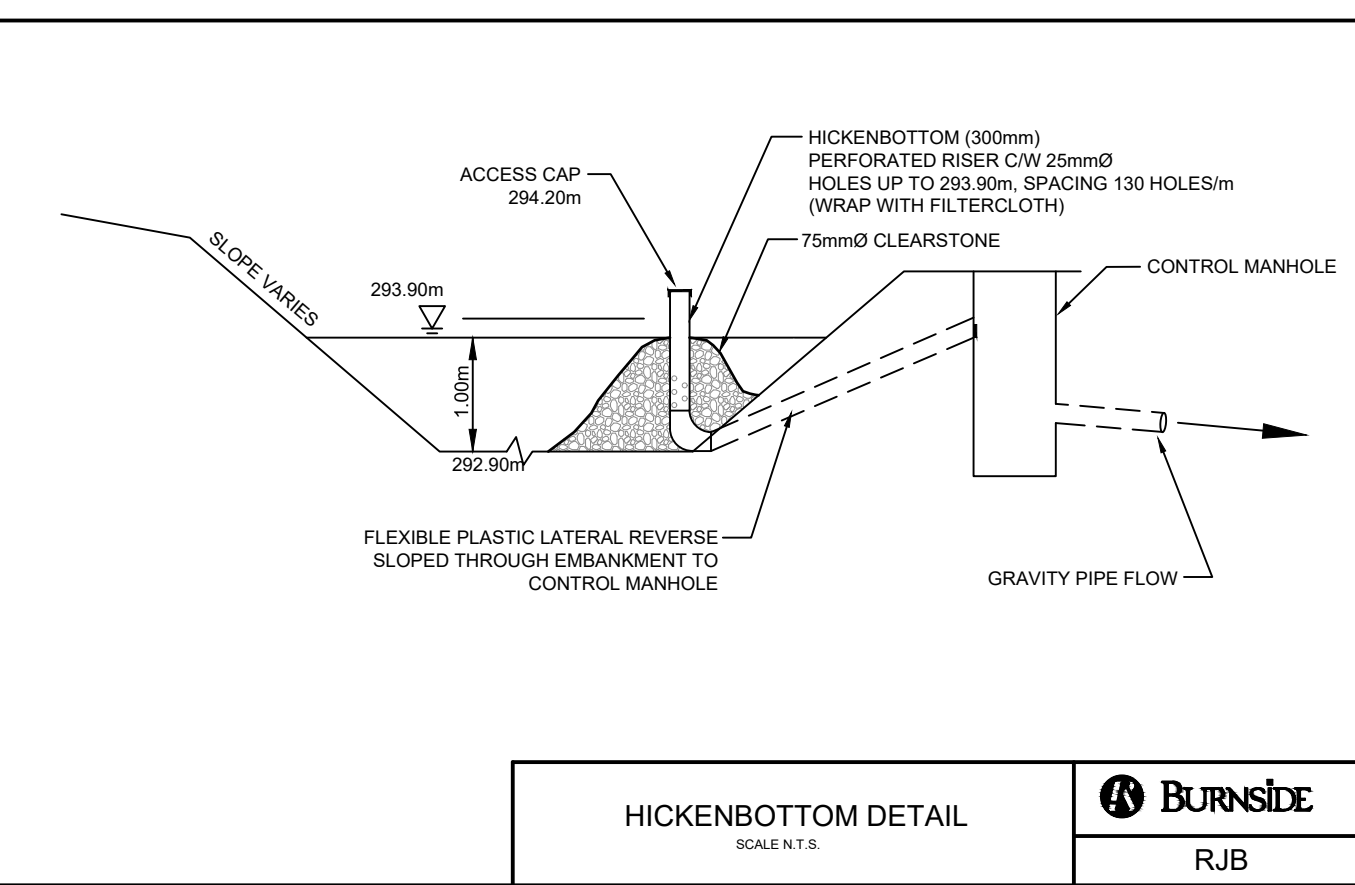
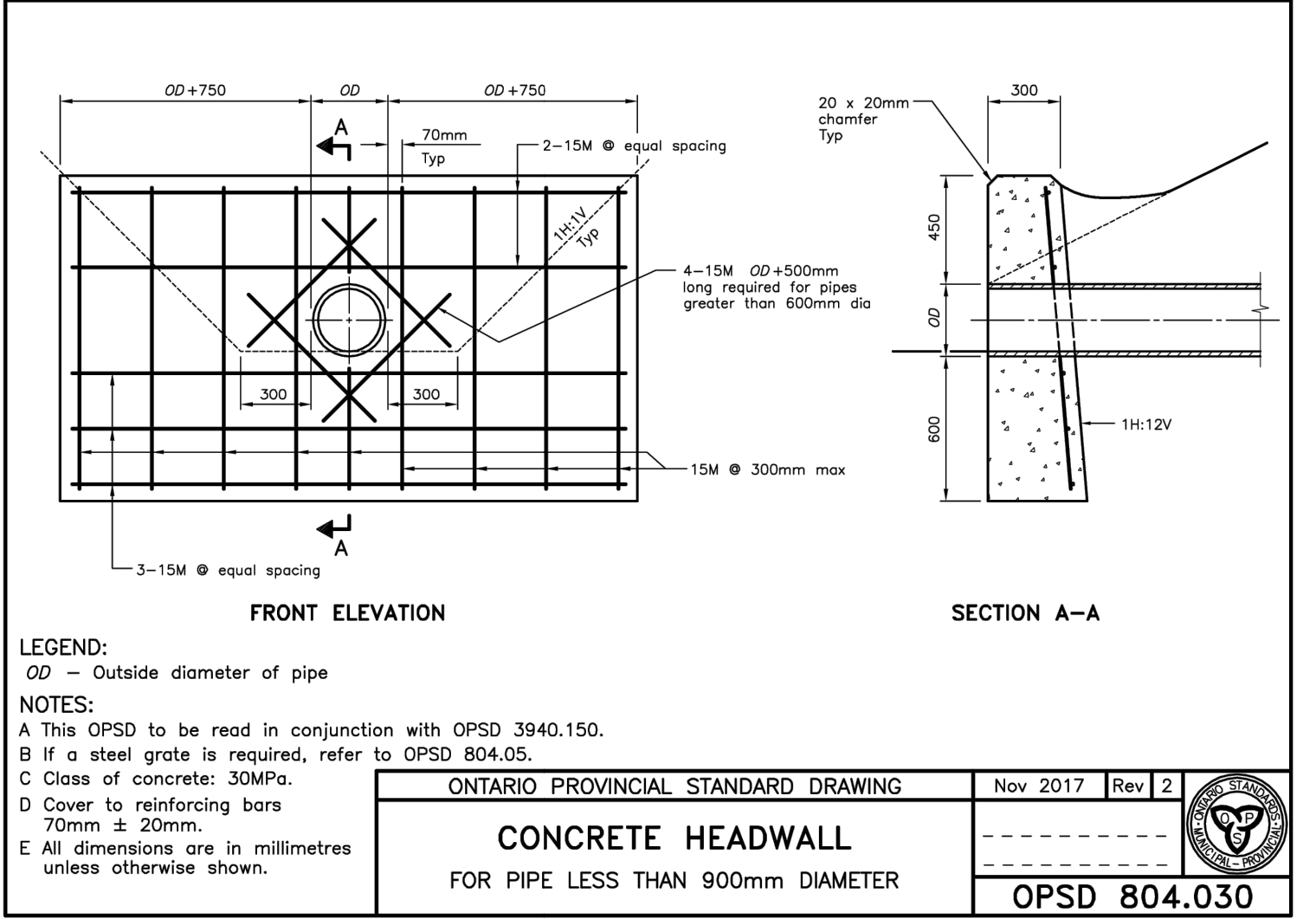
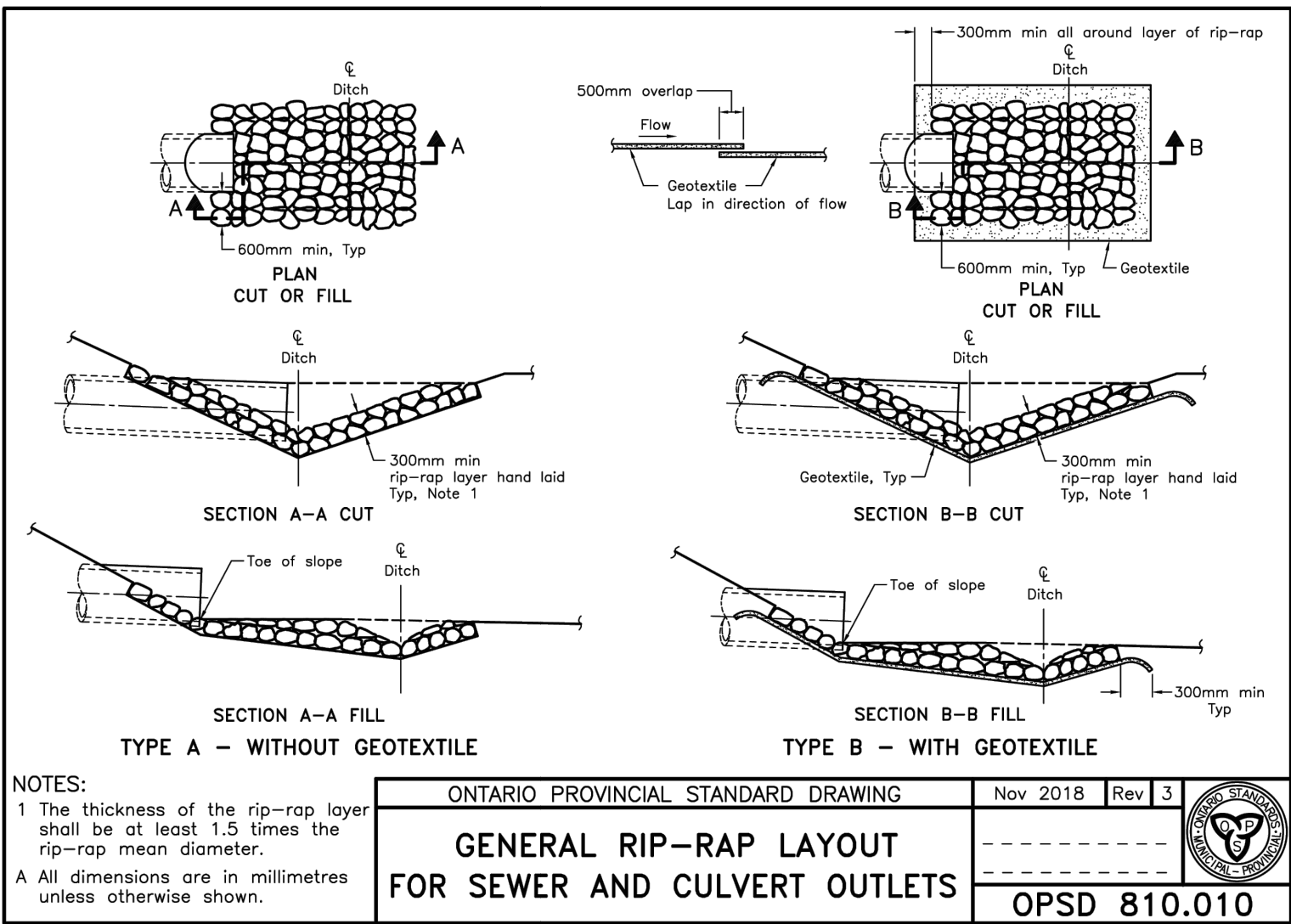
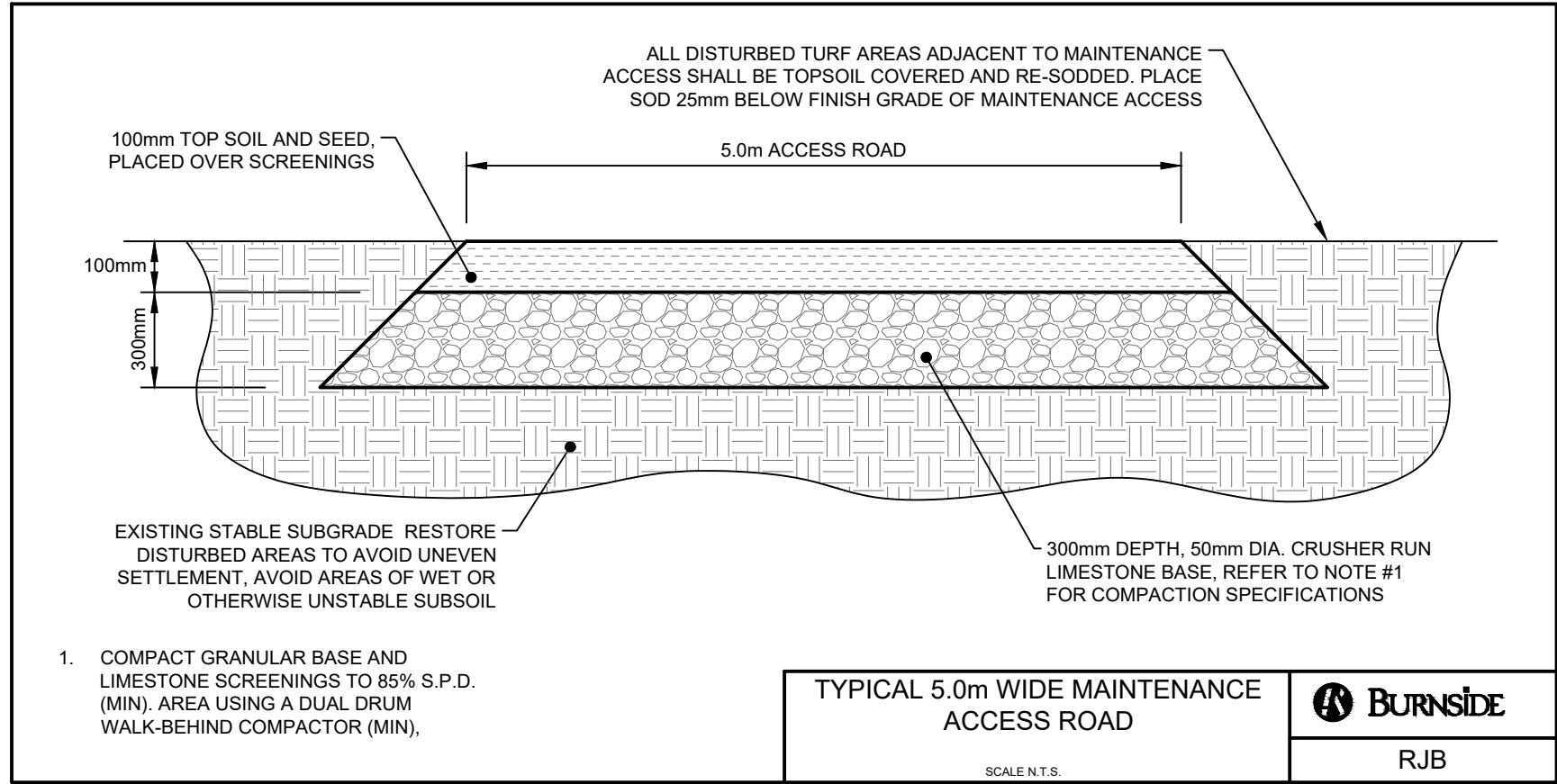
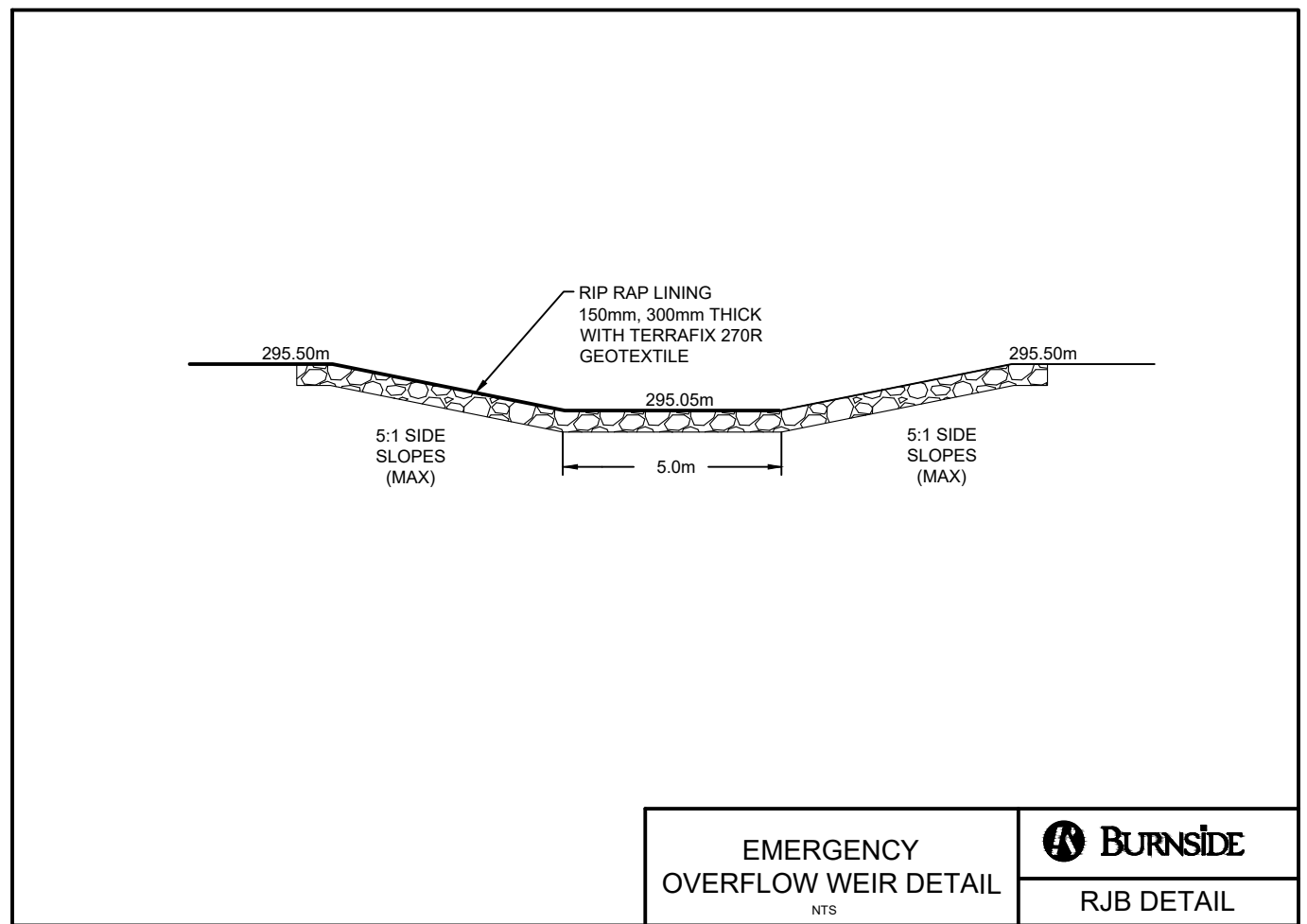
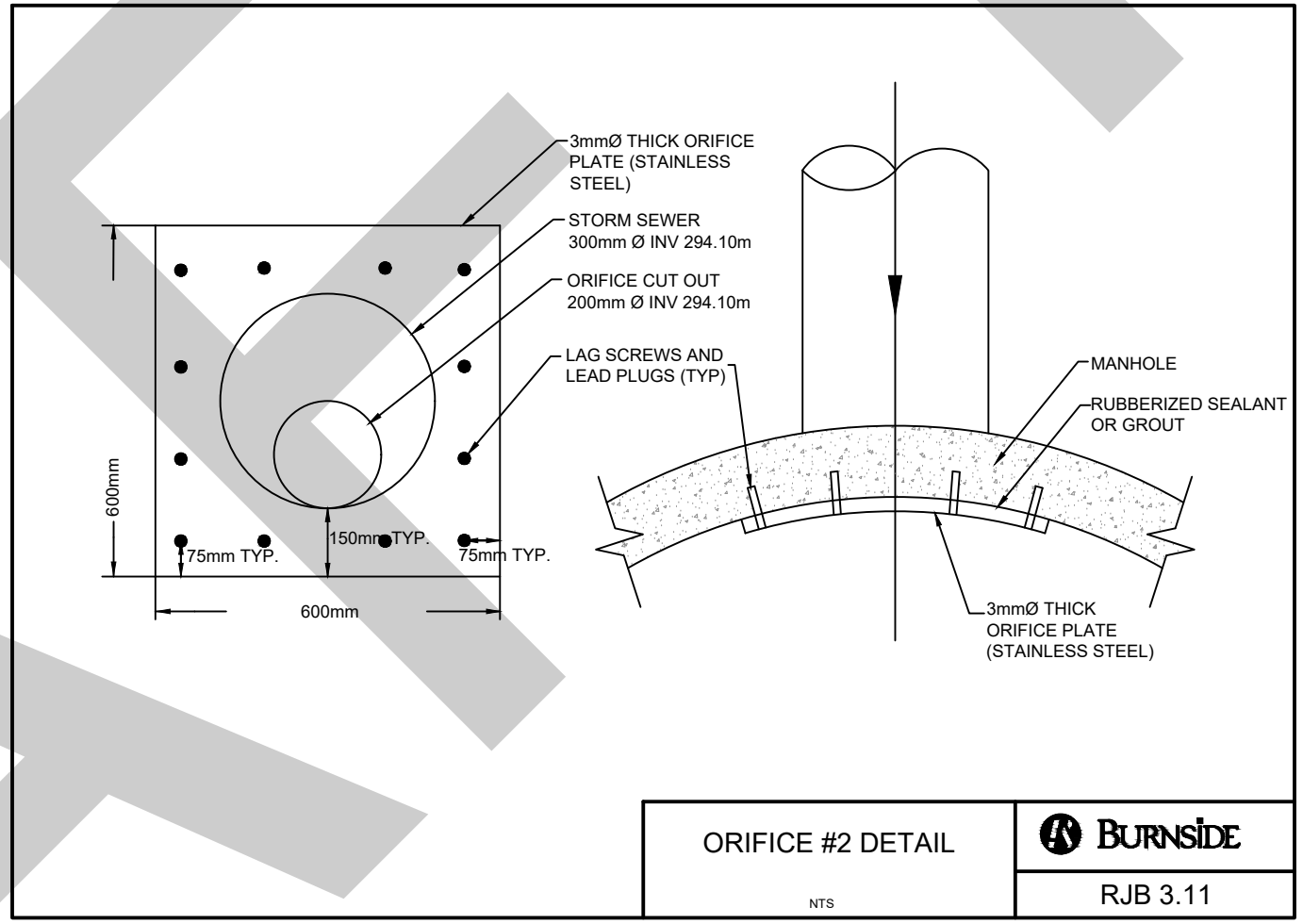
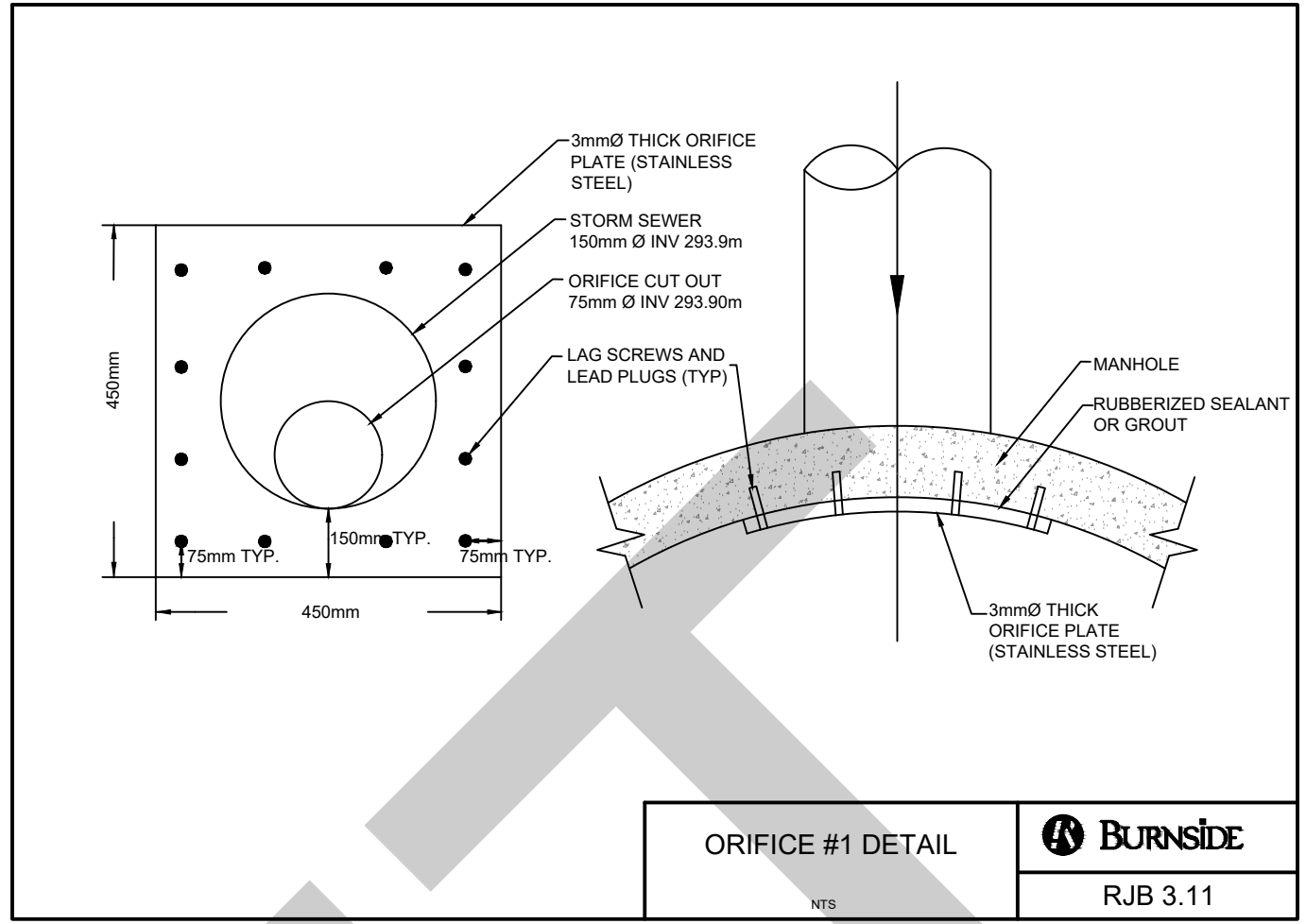
DRAFT

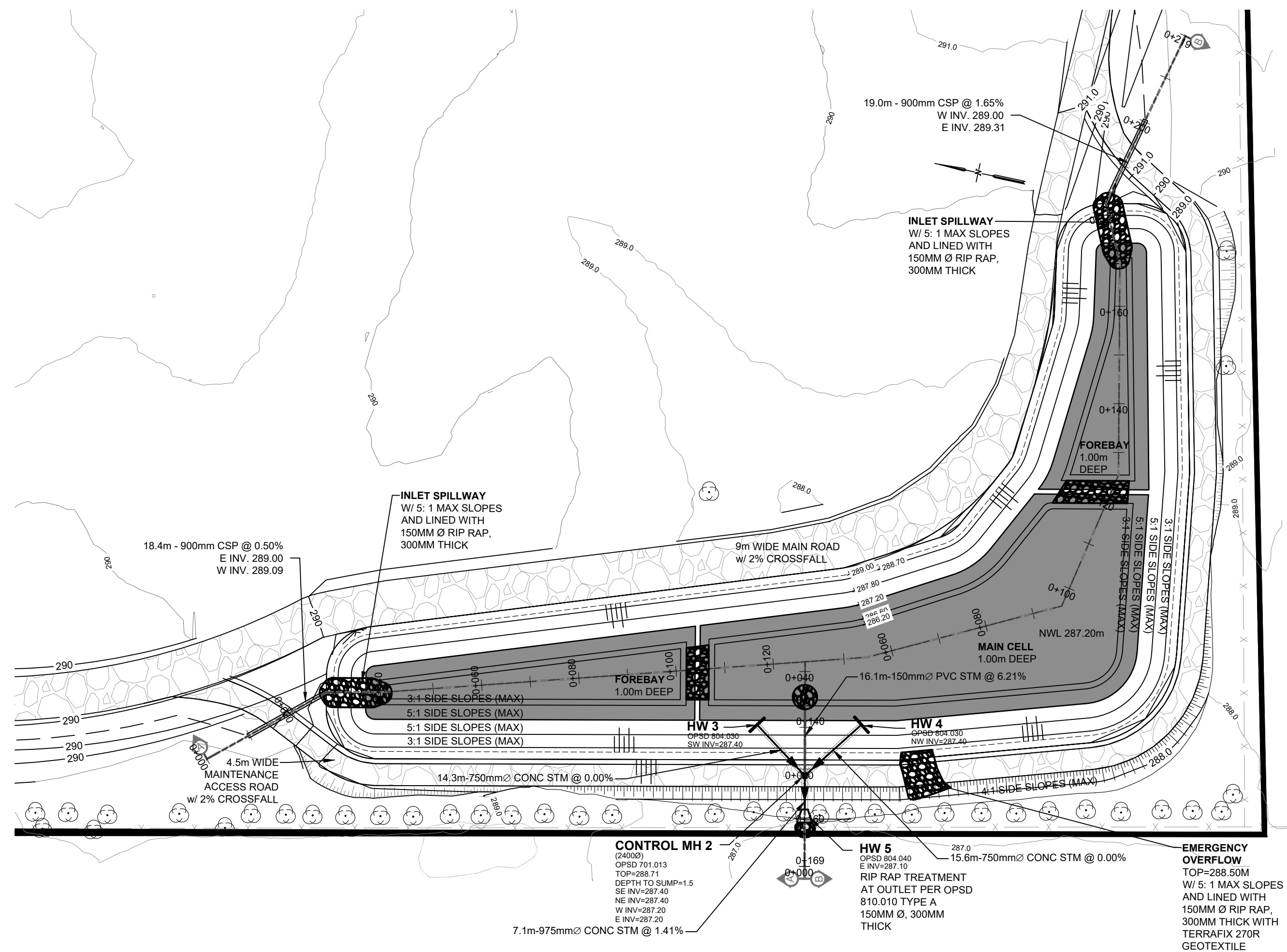


**SWM POND PLAN VIEW**  
SCALE 1:500

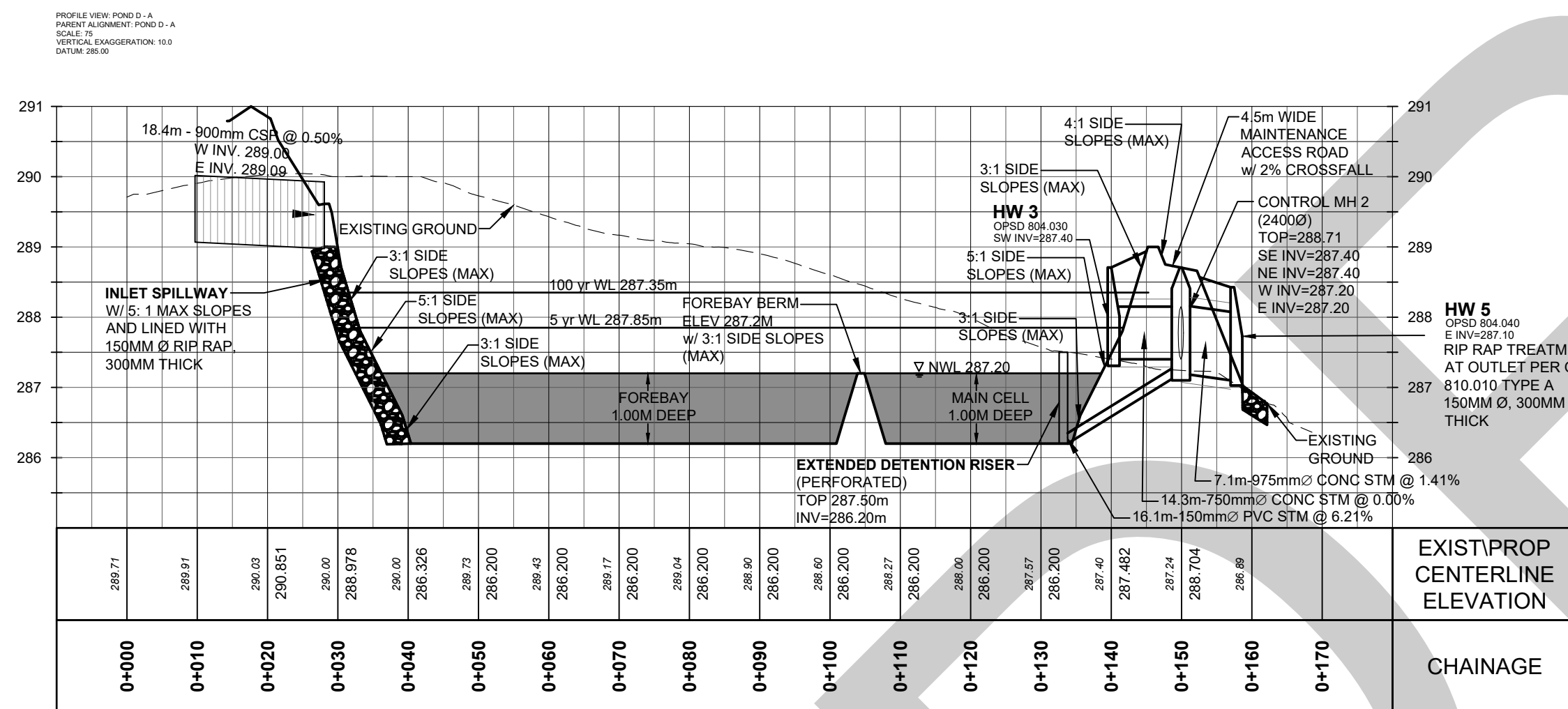


**SWM POND SECTION A-A**  
SCALE 1:500

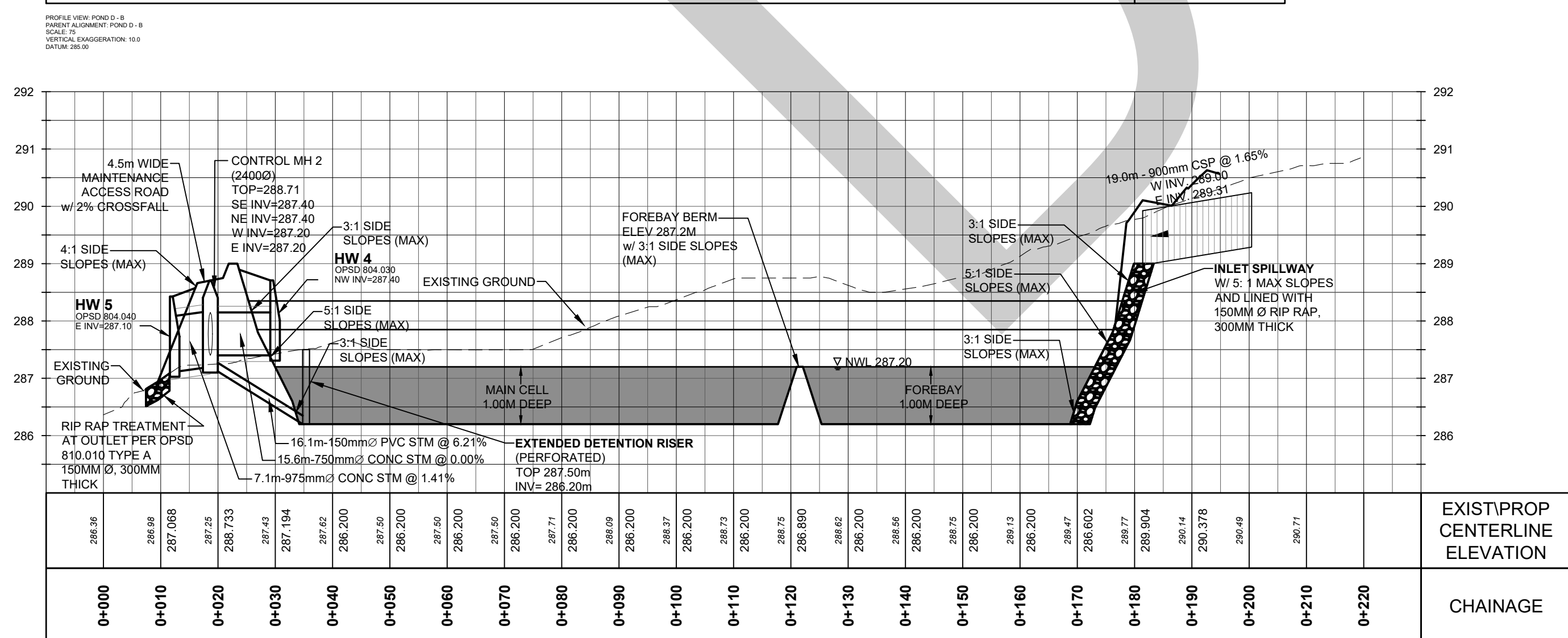




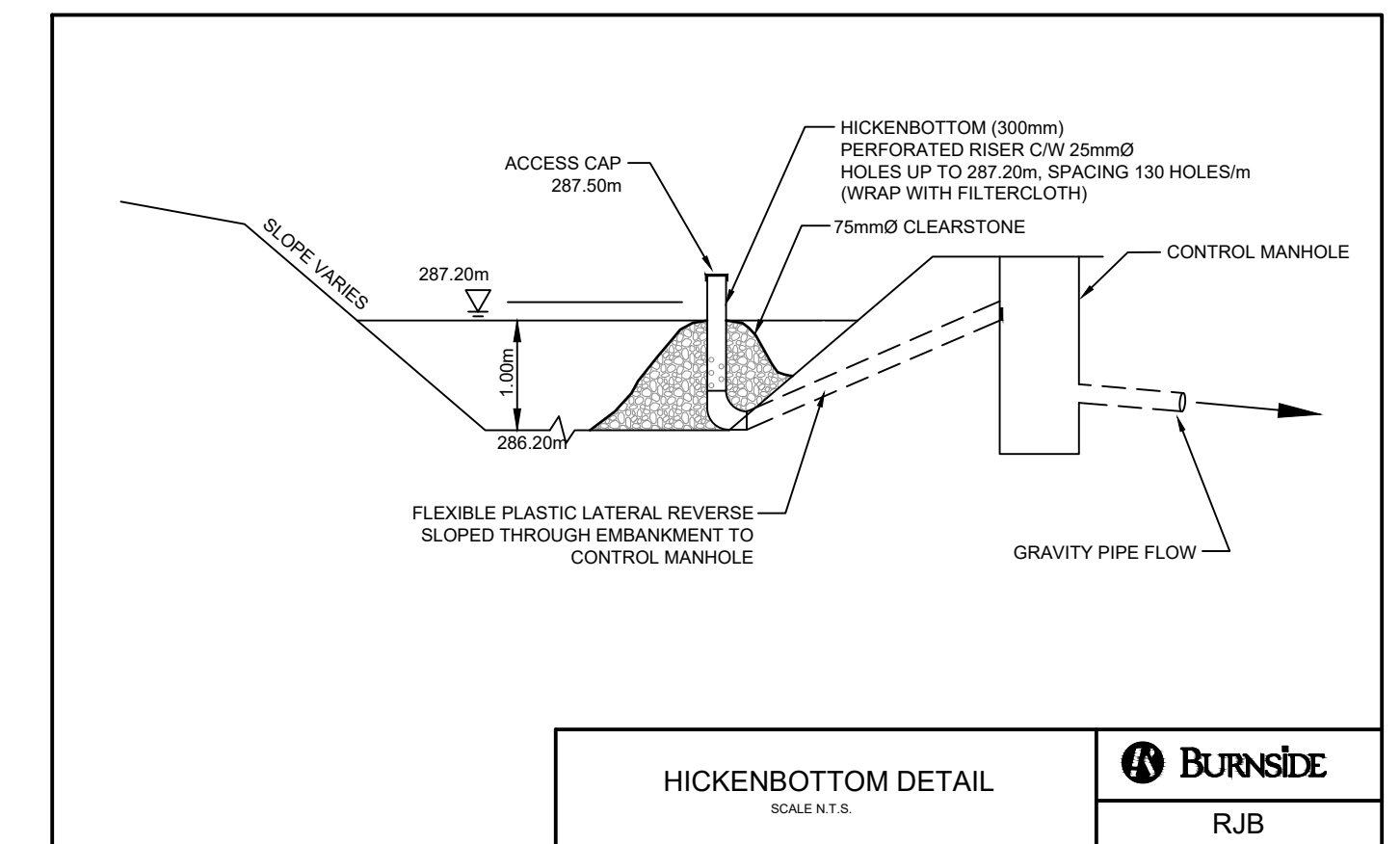
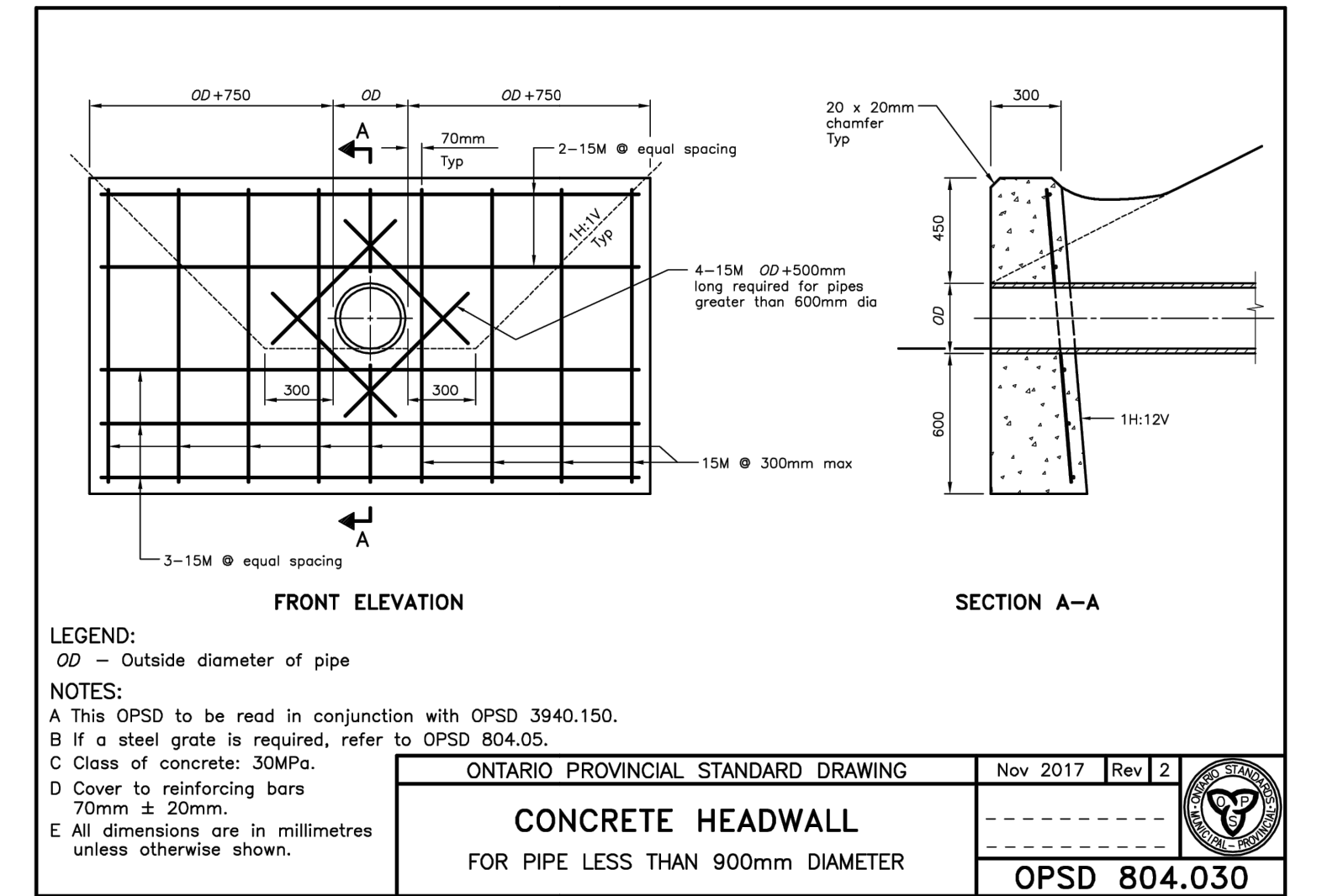
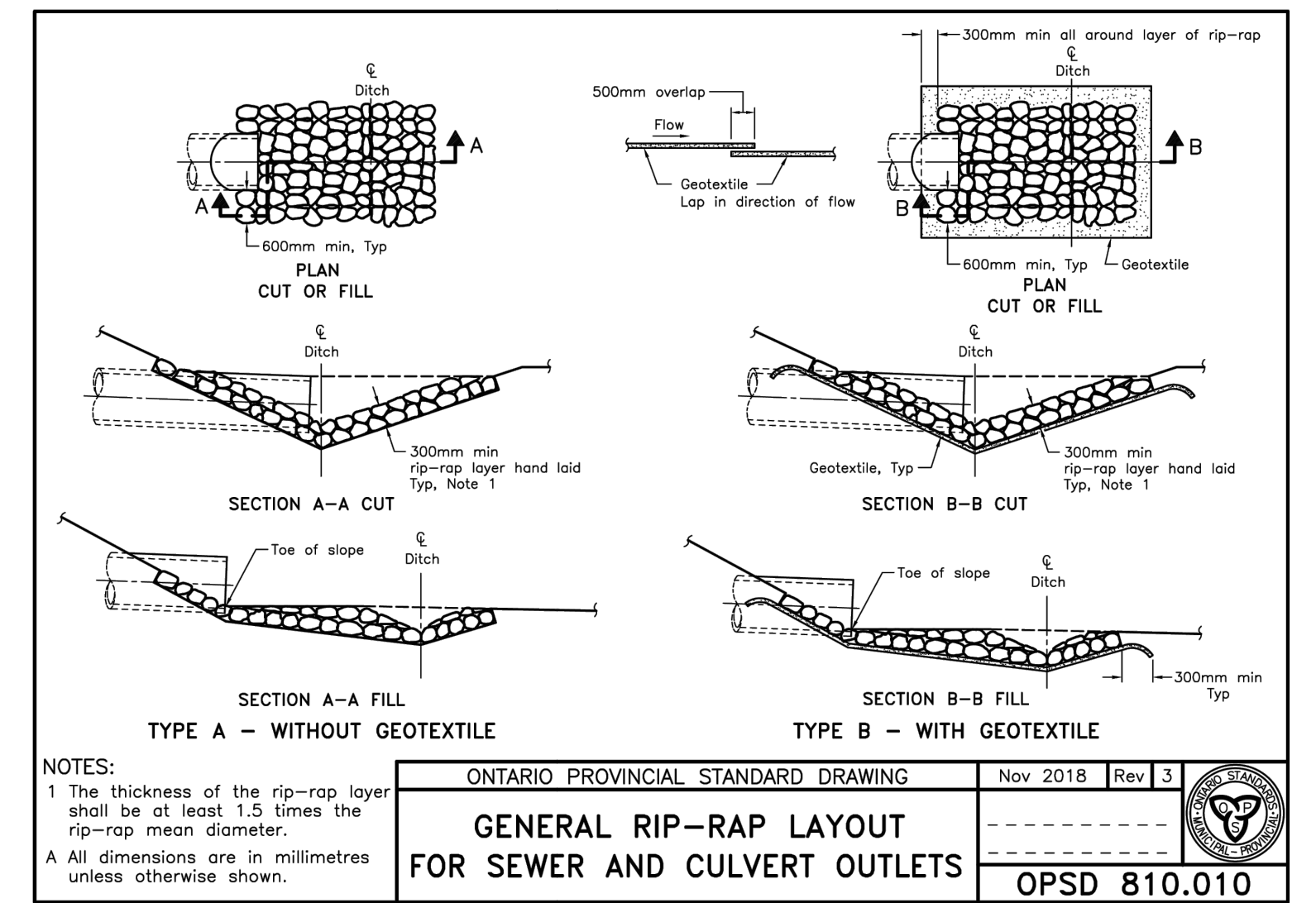
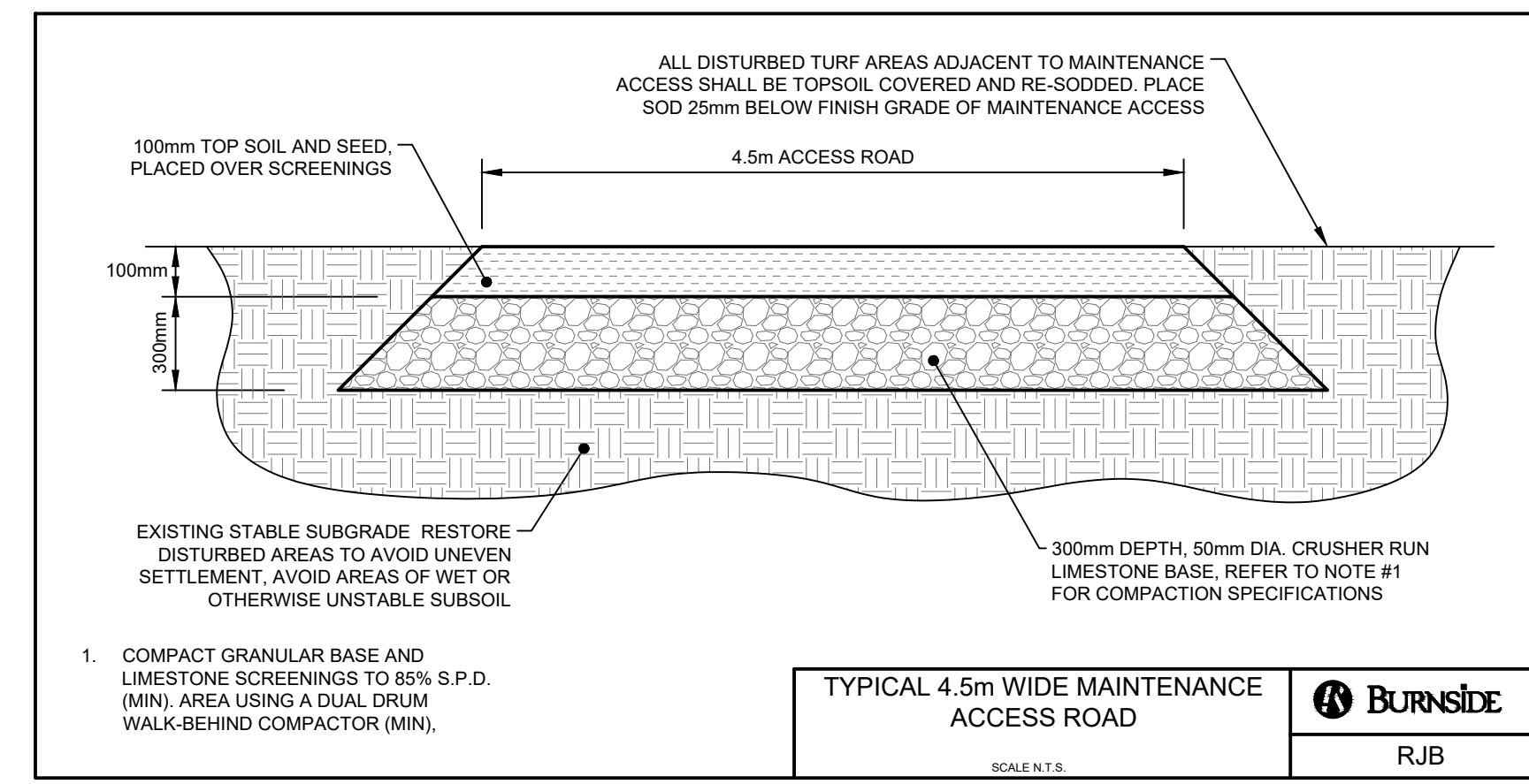
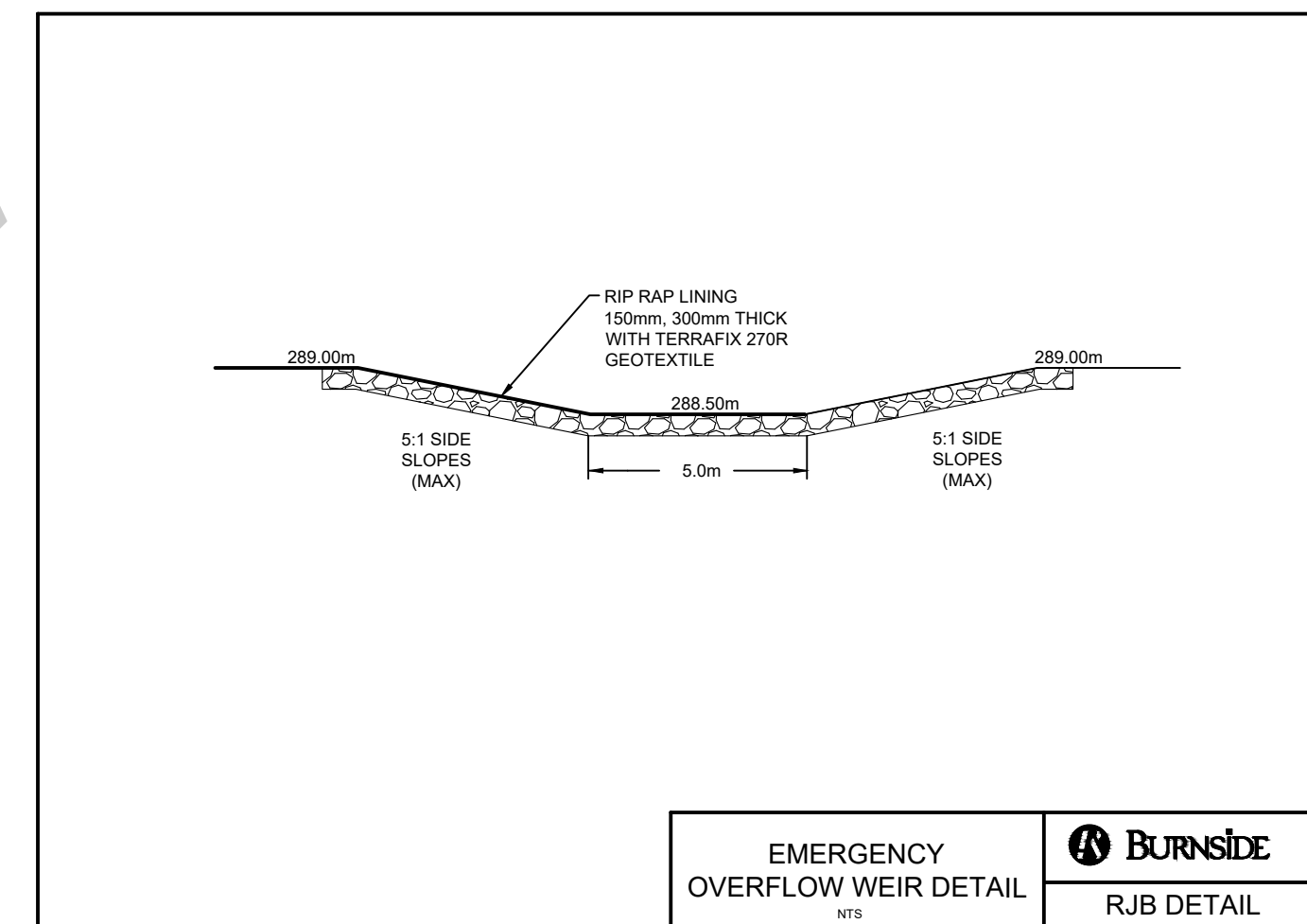
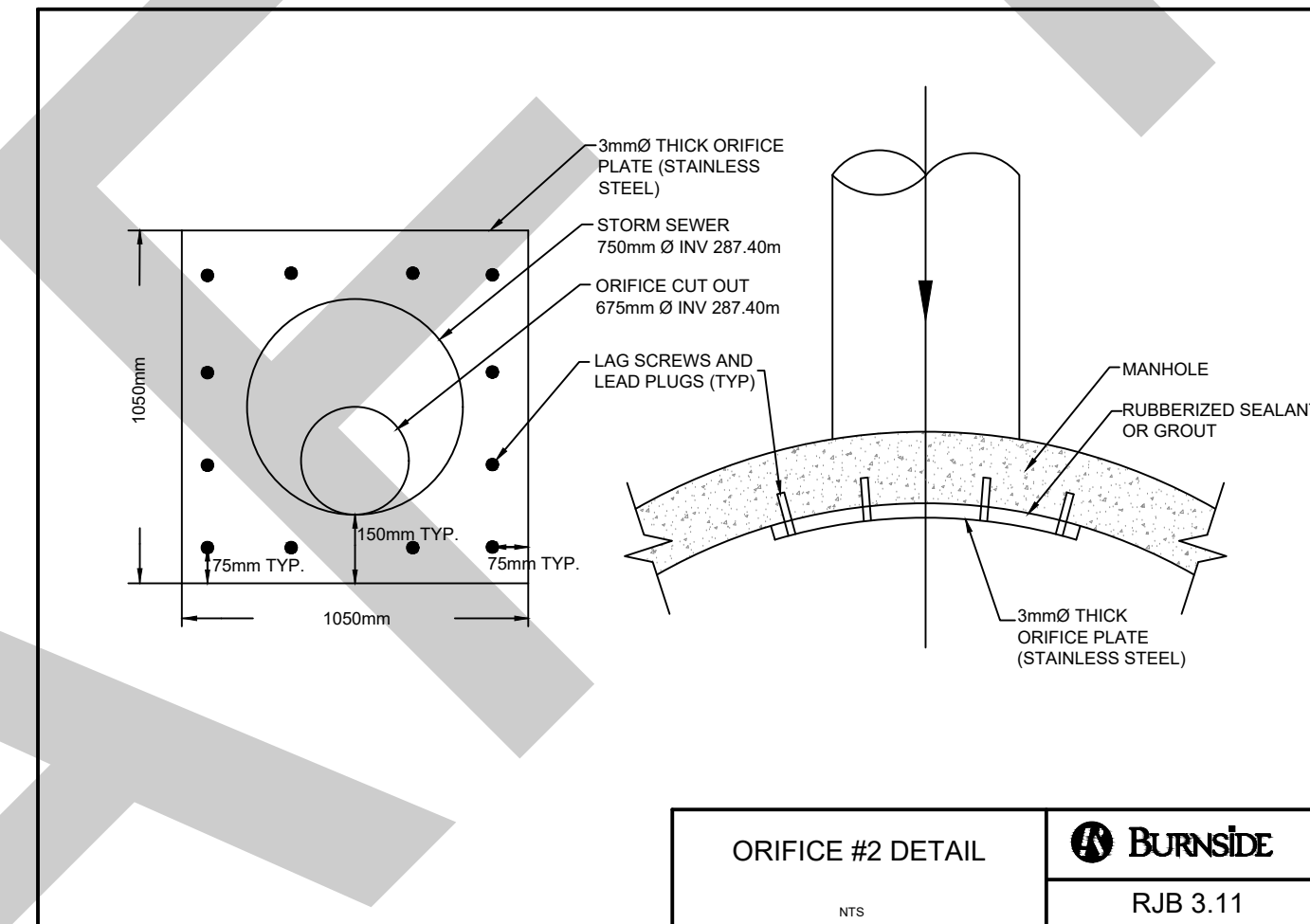
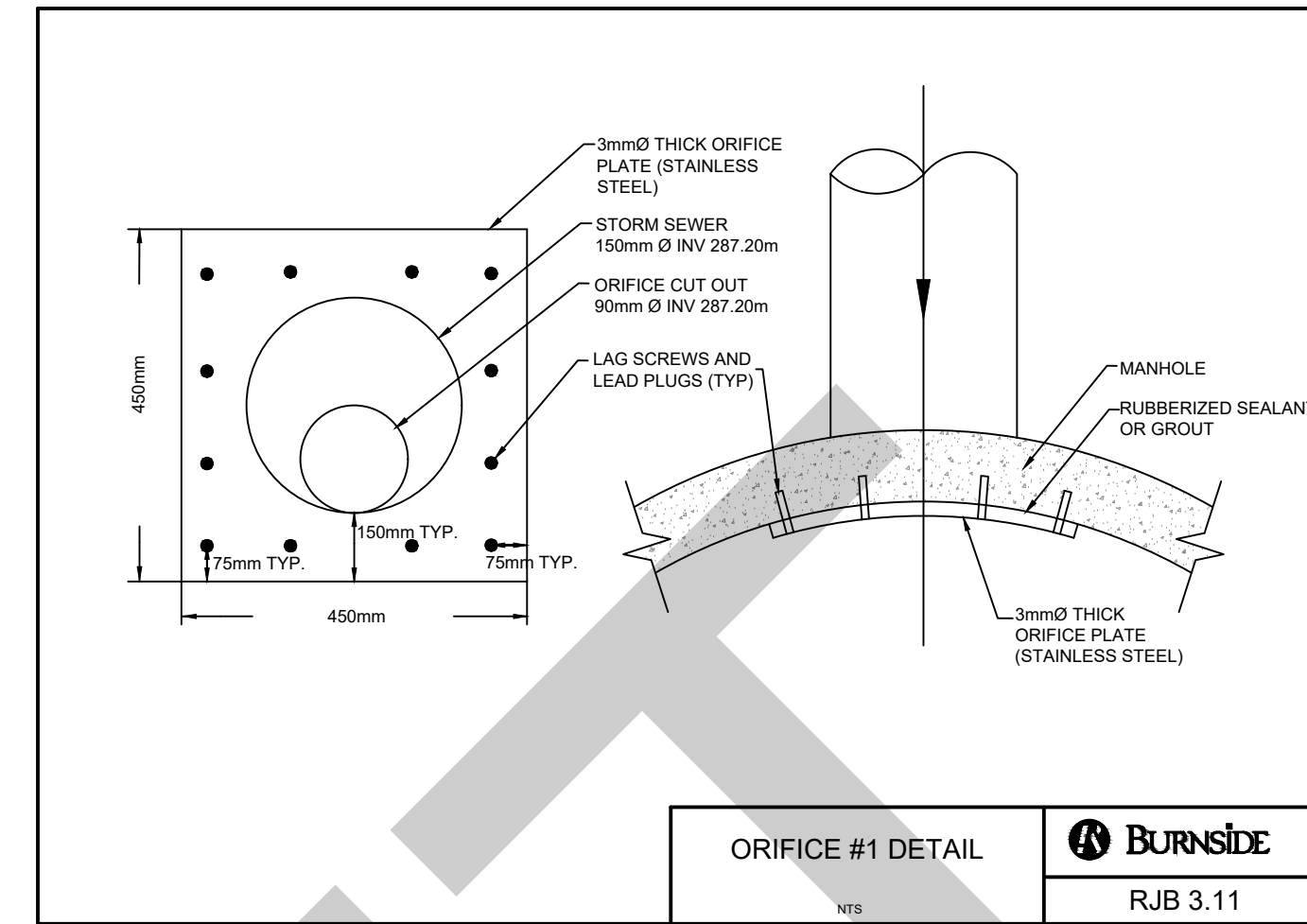
**SWM POND PLAN VIEW**  
SCALE 1:750



**SWM POND SECTION A-A,**  
SCALE 1:750



**SWM POND SECTION B-B**  
SCALE 1:750



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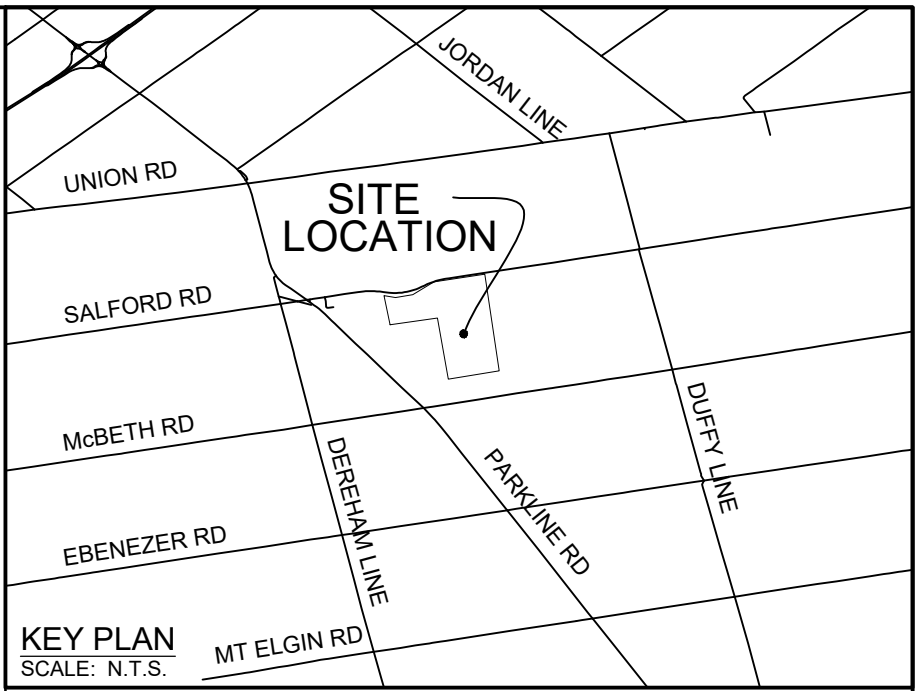
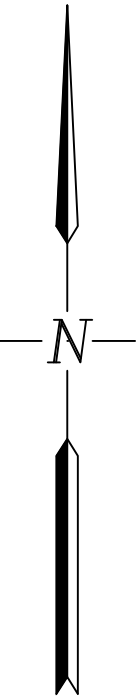
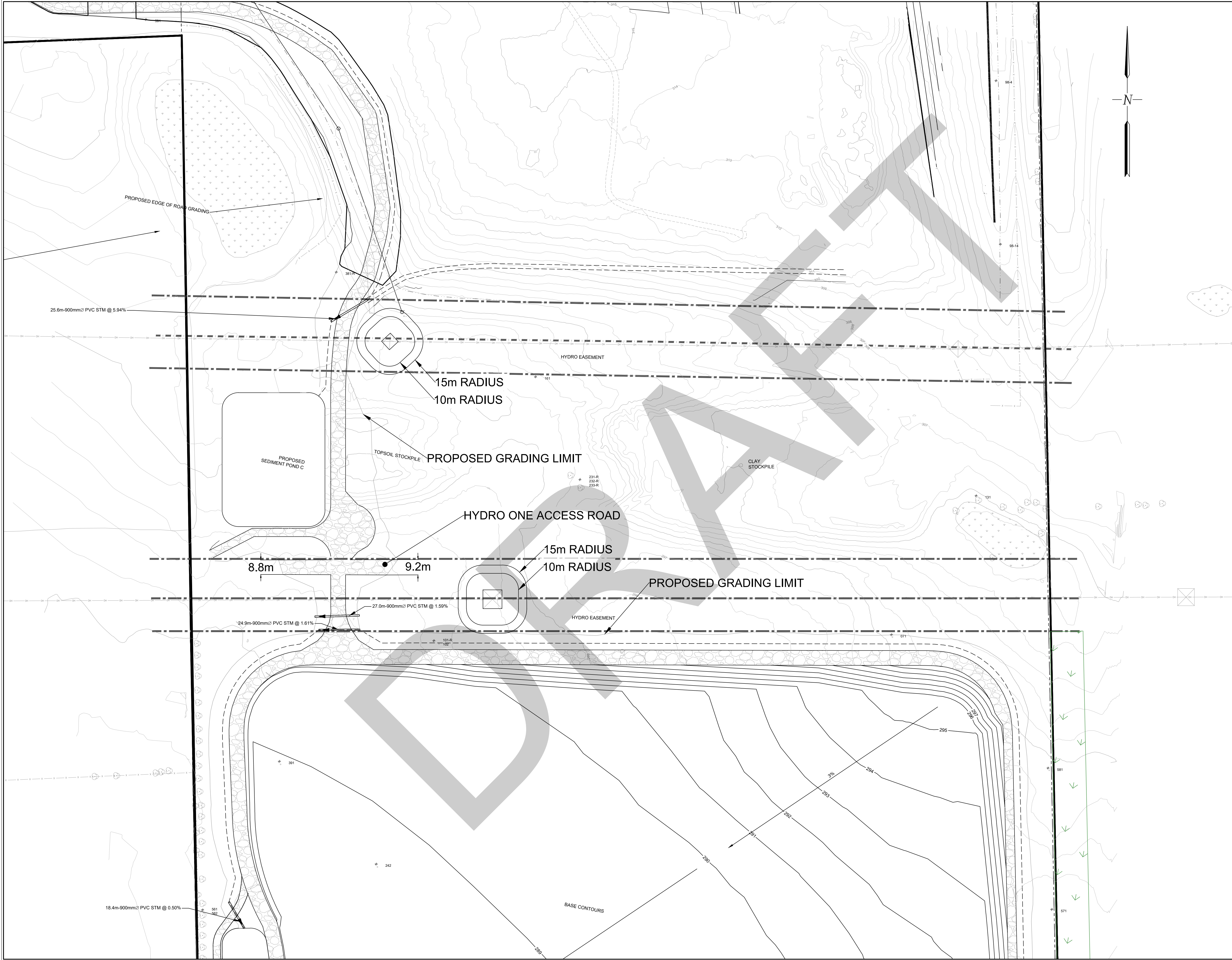
Client: COUNTY OF OXFORD

Figure Title: DESIGN AND OPERATIONS PLAN

Figure No: SWM2 POND D

Drawn: N.B. Checked: J.H. Date: August 2025

Scale: H 1: V 1: Project No: 300059864.0000



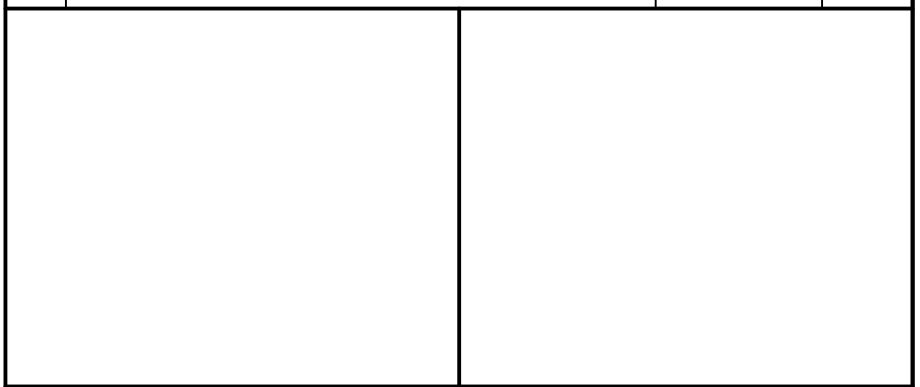
**KEY PLAN**  
SCALE: N.T.S.

|                           |     |
|---------------------------|-----|
| APPROXIMATE SITE BOUNDARY | --- |
| APPROXIMATE LEGAL LINE    | --- |
| PROPOSED FINAL CONTOUR    | --- |
| EXISTING CONTOUR          | --- |
| ECOLOGICAL ZONES          | --- |
| PROPOSED ROAD             | --- |
| PROPOSED SWALE            | --- |
| PHASE BOUNDARY            | --- |

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  2. The contractor shall verify all dimensions, levels, and datums on site and report any discrepancies or omissions to this office prior to construction.
  3. This drawing is to be read and understood in conjunction with all other plans and documents applicable to this project.

**NOT FOR CONSTRUCTION**

| No. | Issue / Revision | Date | Auth. |
|-----|------------------|------|-------|
|     |                  |      |       |
|     |                  |      |       |
|     |                  |      |       |



**BURNSIDE**

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web www.rjburnside.com

Client  
**COUNTY OF OXFORD**  
STREET NAME & NUMBER  
CITY, PROVINCE  
POSTAL CODE

Drawing Title  
**DESIGN AND OPERATIONS PLAN**

**HYDRO EASEMENT**

|                               |                                 |                   |                 |                     |             |
|-------------------------------|---------------------------------|-------------------|-----------------|---------------------|-------------|
| Drawn<br>N.B.                 | Checked<br>J.H.                 | Designed<br>N.B.  | Checked<br>J.H. | Date<br>August 2025 | Drawing No. |
| Project No.<br>300059864.0000 | Contract No.<br>SOUTH FILL AREA | Revision No.<br>0 |                 |                     |             |
| Scale<br>1:1,000              |                                 |                   |                 |                     |             |



# BURNSIDE

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## Appendix D

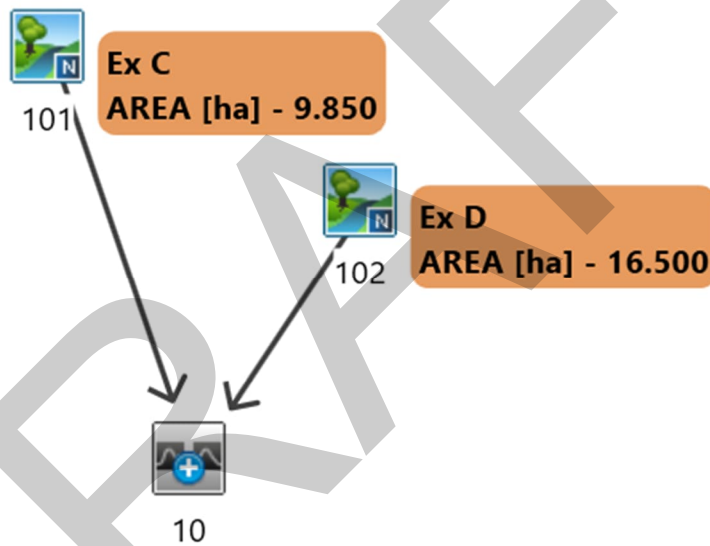
### Visual Otthymo Model Results

DRAFT

# EXISTING VISUAL OTTHYMO MODEL OUTPUT

## 2 THROUGH 100-YEAR STORMS

100-YEAR + 30%



=====
V V I SSSSS U U A L (v 6.2.2015)
V V I SS U U A A L
V V I SS U U A A A A L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL
000 TTTT TTTT H H Y Y M M 000 TM
O O T T H H Y Y M M O O
O O T T H H Y Y M M O O
000 T T H H Y Y M M 000
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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat
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DATE: 09/21/2025

TIME: 02:51:19

USER:

COMMENTS:

\*\* SIMULATION : 100yr +30% 24hr 12min SCS Typ \*\*

MASS STORM Filename: C:\Users\hfaulkner\AppData\Local\Temp\c045e6a9-f58e-4cf9-8935-69436263fb31\de76576b
Ptotal=174.20 mm Comments: 24-hour SCS Type-II Mass Storm Curve
Duration of storm = 24.00 hrs
Mass curve time step = 12.00 min

Unit Hyd Qpeak (cms)= 0.965
PEAK FLOW (cms)= 1.632 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 102.312
TOTAL RAINFALL (mm)= 174.200
RUNOFF COEFFICIENT = 0.587

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB NASHYD ( 0102) Area (ha)= 16.50 Curve Number (CN)= 71.0
ID= 1 DT= 6.0 min Ia (mm)= 8.00 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.47

NOTE: RAINFALL WAS TRANSFORMED TO 6.0 MIN. TIME STEP.

Table with 8 columns: TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr. Contains 48 rows of data.

CALIB NASHYD ( 0101) Area (ha)= 9.85 Curve Number (CN)= 71.0
ID= 1 DT= 5.0 min Ia (mm)= 8.00 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.39

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

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Table with 8 columns: TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr. Contains 48 rows of data.

Table with 8 columns: TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr. Contains 48 rows of data.

Unit Hyd Qpeak (cms)= 1.341

PEAK FLOW (cms)= 2.406 (i)  
TIME TO PEAK (hrs)= 12.300  
RUNOFF VOLUME (mm)= 102.311  
TOTAL RAINFALL (mm)= 174.200  
RUNOFF COEFFICIENT = 0.587

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0010)  
1 + 2 = 3

|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
|-------------------|--------------|----------------|----------------|--------------|
| ID1= 1 ( 0101):   | 9.85         | 1.632          | 12.25          | 102.31       |
| + ID2= 2 ( 0102): | 16.50        | 2.406          | 12.30          | 102.31       |
| ID = 3 ( 0010):   | 26.35        | 3.987          | 12.33          | 102.31       |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

FINISH

V V I SSSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U A A A A L  
V V I SS U U A A L  
VV I SSSSS UUUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM  
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0.083 1.34 6.083 2.68 12.083 26.81 18.08 2.01  
0.167 1.34 6.167 2.68 12.167 26.80 18.17 2.01  
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2.083 1.34 8.083 2.68 14.083 26.32 20.08 2.01  
2.167 1.34 8.167 2.68 14.167 26.30 20.17 2.01  
2.250 1.34 8.250 2.68 14.250 26.28 20.25 2.01  
2.333 1.34 8.333 2.68 14.333 26.26 20.33 2.01  
2.417 1.34 8.417 2.68 14.417 26.24 20.42 1.88  
2.500 1.34 8.500 2.68 14.500 26.22 20.50 1.34  
2.583 1.34 8.583 2.68 14.583 26.20 20.58 1.34  
2.667 1.34 8.667 2.68 14.667 26.18 20.67 1.88  
2.750 1.34 8.750 2.68 14.750 26.16 20.75 2.01  
2.833 1.34 8.833 2.68 14.833 26.14 20.83 2.01  
2.917 1.34 8.917 2.68 14.917 26.12 20.92 2.01  
3.000 1.34 9.000 2.68 15.000 26.10 21.00 2.01  
3.083 1.34 9.083 2.68 15.083 26.08 21.08 1.34  
3.167 1.34 9.167 2.68 15.167 26.06 21.17 1.34  
3.250 1.34 9.250 2.68 15.250 26.04 21.25 1.74  
3.333 1.34 9.333 2.68 15.333 26.02 21.33 2.01  
3.417 1.34 9.417 2.68 15.417 26.00 21.42 1.88  
3.500 1.34 9.500 2.68 15.500 25.98 21.50 1.34  
3.583 1.34 9.583 2.68 15.583 25.96 21.58 1.34  
3.667 1.34 9.667 2.68 15.667 25.94 21.67 1.88  
3.750 1.34 9.750 2.68 15.750 25.92 21.75 2.01  
3.833 1.34 9.833 2.68 15.833 25.90 21.83 1.74  
3.917 1.34 9.917 2.68 15.917 25.88 21.92 1.34  
4.000 1.34 10.000 2.68 16.000 25.86 22.00 1.34  
4.083 2.68 10.083 7.37 16.083 3.35 22.08 1.34  
4.167 2.68 10.167 7.37 16.167 3.35 22.17 1.34  
4.250 2.68 10.250 7.37 16.250 3.35 22.25 1.74  
4.333 2.68 10.333 7.37 16.333 3.35 22.33 2.01  
4.417 2.68 10.417 7.37 16.417 3.35 22.42 1.88  
4.500 2.68 10.500 7.37 16.500 3.35 22.50 1.34  
4.583 2.68 10.583 7.37 16.583 3.35 22.58 1.34  
4.667 2.68 10.667 7.37 16.667 3.35 22.67 1.88  
4.750 2.68 10.750 7.37 16.750 3.35 22.75 2.01  
4.833 2.68 10.833 7.37 16.833 3.35 22.83 1.74  
4.917 2.68 10.917 7.37 16.917 3.35 22.92 1.34  
5.000 2.68 11.000 7.37 17.000 3.35 23.00 1.34  
5.083 2.68 11.083 7.37 17.083 3.35 23.08 1.34  
5.167 2.68 11.167 7.37 17.167 3.35 23.17 1.34  
5.250 2.68 11.250 7.37 17.250 3.35 23.25 1.34  
5.333 2.68 11.333 7.37 17.333 3.35 23.33 1.34  
5.417 2.68 11.417 7.37 17.417 3.35 23.42 1.47  
5.500 2.68 11.500 7.37 17.500 3.35 23.50 2.01  
5.583 2.68 11.583 7.37 17.583 3.35 23.58 2.01  
5.667 2.68 11.667 7.37 17.667 3.35 23.67 1.47  
5.750 2.68 11.750 7.37 17.750 3.35 23.75 1.34  
5.833 2.68 11.833 7.37 17.833 3.35 23.83 1.34  
5.917 2.68 11.917 7.37 17.917 3.35 23.92 1.34  
6.000 2.68 12.000 7.37 18.000 3.35 24.00 1.34

\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voind.dat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\7a166ff1-d461-469d-b249-f6d183413c13\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\7a166ff1-d461-469d-b249-f6d183413c13\sc

DATE: 09/21/2025 TIME: 02:51:18

USER:

COMMENTS:

\*\* SIMULATION : 100yr 24hr 12min SCS Type II \*\*

MASS STORM Filename: C:\Users\hfaulkner\AppData\Local\Temp\c045e6a9-f58e-4cf9-8935-69436263fb31\cc6e969d  
Ptotal=134.00 mm Comments: 24-hour SCS Type-II Mass Storm Curve

Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

Unit Hyd Qpeak (cms)= 0.965

PEAK FLOW (cms)= 1.096 (i)  
TIME TO PEAK (hrs)= 12.250  
RUNOFF VOLUME (mm)= 69.093  
TOTAL RAINFALL (mm)= 134.000  
RUNOFF COEFFICIENT = 0.516

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.00        | 1.34          | 6.00        | 2.68          | 12.00       | 26.80         | 18.00       | 2.01          |
| 0.20        | 1.34          | 6.20        | 2.68          | 12.20       | 16.75         | 18.20       | 2.01          |
| 0.40        | 1.34          | 6.40        | 2.68          | 12.40       | 12.06         | 18.40       | 2.68          |
| 0.60        | 1.34          | 6.60        | 2.68          | 12.60       | 11.39         | 18.60       | 2.01          |
| 0.80        | 1.34          | 6.80        | 2.68          | 12.80       | 8.04          | 18.80       | 2.01          |
| 1.00        | 1.34          | 7.00        | 2.68          | 13.00       | 6.70          | 19.00       | 2.68          |
| 1.20        | 1.34          | 7.20        | 2.68          | 13.20       | 6.70          | 19.20       | 2.01          |
| 1.40        | 1.34          | 7.40        | 2.68          | 13.40       | 6.70          | 19.40       | 2.68          |
| 1.60        | 1.34          | 7.60        | 2.68          | 13.60       | 6.70          | 19.60       | 2.01          |
| 1.80        | 1.34          | 7.80        | 2.68          | 13.80       | 6.70          | 19.80       | 2.68          |
| 2.00        | 1.34          | 8.00        | 4.02          | 14.00       | 4.02          | 20.00       | 2.01          |
| 2.20        | 1.34          | 8.20        | 4.02          | 14.20       | 4.02          | 20.20       | 2.01          |
| 2.40        | 1.34          | 8.40        | 4.02          | 14.40       | 4.02          | 20.40       | 1.34          |
| 2.60        | 1.34          | 8.60        | 4.02          | 14.60       | 4.02          | 20.60       | 2.01          |
| 2.80        | 1.34          | 8.80        | 4.02          | 14.80       | 4.02          | 20.80       | 2.01          |
| 3.00        | 1.34          | 9.00        | 4.02          | 15.00       | 3.35          | 21.00       | 1.34          |
| 3.20        | 1.34          | 9.20        | 4.02          | 15.20       | 3.35          | 21.20       | 2.01          |
| 3.40        | 1.34          | 9.40        | 4.02          | 15.40       | 3.35          | 21.40       | 1.34          |
| 3.60        | 1.34          | 9.60        | 4.02          | 15.60       | 3.35          | 21.60       | 2.01          |
| 3.80        | 1.34          | 9.80        | 4.02          | 15.80       | 3.35          | 21.80       | 1.34          |
| 4.00        | 2.68          | 10.00       | 7.37          | 16.00       | 3.35          | 22.00       | 1.34          |
| 4.20        | 2.68          | 10.20       | 7.37          | 16.20       | 3.35          | 22.20       | 2.01          |
| 4.40        | 2.68          | 10.40       | 7.37          | 16.40       | 3.35          | 22.40       | 1.34          |
| 4.60        | 2.68          | 10.60       | 7.37          | 16.60       | 3.35          | 22.60       | 2.01          |
| 4.80        | 2.68          | 10.80       | 7.37          | 16.80       | 2.01          | 22.80       | 1.34          |
| 5.00        | 2.68          | 11.00       | 10.05         | 17.00       | 2.01          | 23.00       | 1.34          |
| 5.20        | 2.68          | 11.20       | 14.74         | 17.20       | 2.68          | 23.20       | 1.34          |
| 5.40        | 2.68          | 11.40       | 35.51         | 17.40       | 2.01          | 23.40       | 2.01          |
| 5.60        | 2.68          | 11.60       | 73.70         | 17.60       | 2.68          | 23.60       | 1.34          |
| 5.80        | 2.68          | 11.80       | 150.75        | 17.80       | 2.01          | 23.80       | 1.34          |

CALIB NASHYD ( 0101) Area (ha)= 9.85 Curve Number (CN)= 71.0  
ID= 1 DT= 5.0 min Ia (mm)= 8.00 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.39

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

CALIB NASHYD ( 0102) Area (ha)= 16.50 Curve Number (CN)= 71.0  
ID= 1 DT= 6.0 min Ia (mm)= 8.00 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.47

NOTE: RAINFALL WAS TRANSFORMED TO 6.0 MIN. TIME STEP.

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.100       | 1.34          | 6.100       | 2.68          | 12.100      | 26.80         | 18.10       | 2.01          |
| 0.200       | 1.34          | 6.200       | 2.68          | 12.200      | 26.80         | 18.20       | 2.01          |
| 0.300       | 1.34          | 6.300       | 2.68          | 12.300      | 16.75         | 18.30       | 2.01          |
| 0.400       | 1.34          | 6.400       | 2.68          | 12.400      | 12.06         | 18.40       | 2.01          |
| 0.500       | 1.34          | 6.500       | 2.68          | 12.500      | 11.39         | 18.50       | 2.68          |
| 0.600       | 1.34          | 6.600       | 2.68          | 12.600      | 8.04          | 18.60       | 2.01          |
| 0.700       | 1.34          | 6.700       | 2.68          | 12.700      | 6.70          | 18.70       | 2.01          |
| 0.800       | 1.34          | 6.800       | 2.68          | 12.800      | 6.70          | 18.80       | 2.01          |
| 0.900       | 1.34          | 6.900       | 2.68          | 12.900      | 6.70          | 18.90       | 2.01          |
| 1.000       | 1.34          | 7.000       | 2.68          | 13.000      | 6.70          | 19.00       | 2.01          |
| 1.100       | 1.34          | 7.100       | 2.68          | 13.100      | 6.70          | 19.10       | 2.68          |
| 1.200       | 1.34          | 7.200       | 2.68          | 13.200      | 6.70          | 19.20       | 2.68          |
| 1.300       | 1.34          | 7.300       | 2.68          | 13.300      | 6.70          | 19.30       | 2.01          |
| 1.400       | 1.34          | 7.400       | 2.68          | 13.400      | 6.70          | 19.40       | 2.01          |
| 1.500       | 1.34          | 7.500       | 2.68          | 13.500      | 6.70          | 19.50       | 2.68          |
| 1.600       | 1.34          | 7.600       | 2.68          | 13.600      | 6.70          | 19.60       | 2.68          |
| 1.700       | 1.34          | 7.700       | 2.68          | 13.700      | 6.70          | 19.70       | 2.01          |
| 1.800       | 1.34          | 7.800       | 2.68          | 13.800      | 6.70          | 19.80       | 2.01          |
| 1.900       | 1.34          | 7.900       | 2.68          | 13.900      | 6.70          | 19.90       | 2.68          |
| 2.000       | 1.34          | 8.000       | 2.68          | 14.000      | 6.70          | 20.00       | 2.68          |
| 2.100       | 1.34          | 8.100       | 4.02          | 14.100      | 4.02          | 20.10       | 2.01          |
| 2.200       | 1.34          | 8.200       | 4.02          | 14.200      | 4.02          | 20.20       | 2.01          |
| 2.300       | 1.34          | 8.300       | 4.02          | 14.300      | 4.02          | 20.30       | 2.01          |
| 2.400       | 1.34          | 8.400       | 4.02          | 14.400      | 4.02          | 20.40       | 2.01          |
| 2.500       | 1.34          | 8.500       | 4.02          | 14.500      | 4.02          | 20.50       | 1.34          |
| 2.600       | 1.34          | 8.600       | 4.02          | 14.600      | 4.02          | 20.60       | 1.34          |
| 2.700       | 1.34          | 8.700       | 4.02          | 14.700      | 4.02          | 20.70       | 2.01          |
| 2.800       | 1.34          | 8.800       | 4.02          | 14.800      | 4.02          | 20.80       | 2.01          |
| 2.900       | 1.34          | 8.900       | 4.02          | 14.900      | 4.02          | 20.90       | 2.01          |
| 3.000       | 1.34          | 9.000       | 4.02          | 15.000      | 4.02          | 21.00       | 2.01          |
| 3.100       | 1.34          | 9.100       | 4.02          | 15.100      | 3.35          | 21.10       | 1.34          |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 3.200 | 1.34 | 9.200  | 4.02   | 15.200 | 3.35 | 21.20 | 1.34 |
| 3.300 | 1.34 | 9.300  | 4.02   | 15.300 | 3.35 | 21.30 | 2.01 |
| 3.400 | 1.34 | 9.400  | 4.02   | 15.400 | 3.35 | 21.40 | 2.01 |
| 3.500 | 1.34 | 9.500  | 4.02   | 15.500 | 3.35 | 21.50 | 1.34 |
| 3.600 | 1.34 | 9.600  | 4.02   | 15.600 | 3.35 | 21.60 | 1.34 |
| 3.700 | 1.34 | 9.700  | 4.02   | 15.700 | 3.35 | 21.70 | 2.01 |
| 3.800 | 1.34 | 9.800  | 4.02   | 15.800 | 3.35 | 21.80 | 2.01 |
| 3.900 | 1.34 | 9.900  | 4.02   | 15.900 | 3.35 | 21.90 | 1.34 |
| 4.000 | 1.34 | 10.000 | 4.02   | 16.000 | 3.35 | 22.00 | 1.34 |
| 4.100 | 2.68 | 10.100 | 7.37   | 16.100 | 3.35 | 22.10 | 1.34 |
| 4.200 | 2.68 | 10.200 | 7.37   | 16.200 | 3.35 | 22.20 | 1.34 |
| 4.300 | 2.68 | 10.300 | 7.37   | 16.300 | 3.35 | 22.30 | 2.01 |
| 4.400 | 2.68 | 10.400 | 7.37   | 16.400 | 3.35 | 22.40 | 2.01 |
| 4.500 | 2.68 | 10.500 | 7.37   | 16.500 | 3.35 | 22.50 | 1.34 |
| 4.600 | 2.68 | 10.600 | 7.37   | 16.600 | 3.35 | 22.60 | 1.34 |
| 4.700 | 2.68 | 10.700 | 7.37   | 16.700 | 3.35 | 22.70 | 2.01 |
| 4.800 | 2.68 | 10.800 | 7.37   | 16.800 | 3.35 | 22.80 | 2.01 |
| 4.900 | 2.68 | 10.900 | 7.37   | 16.900 | 2.01 | 22.90 | 1.34 |
| 5.000 | 2.68 | 11.000 | 7.37   | 17.000 | 2.01 | 23.00 | 1.34 |
| 5.100 | 2.68 | 11.100 | 10.05  | 17.100 | 2.01 | 23.10 | 1.34 |
| 5.200 | 2.68 | 11.200 | 10.05  | 17.200 | 2.01 | 23.20 | 1.34 |
| 5.300 | 2.68 | 11.300 | 14.74  | 17.300 | 2.68 | 23.30 | 1.34 |
| 5.400 | 2.68 | 11.400 | 14.74  | 17.400 | 2.68 | 23.40 | 1.34 |
| 5.500 | 2.68 | 11.500 | 35.51  | 17.500 | 2.01 | 23.50 | 2.01 |
| 5.600 | 2.68 | 11.600 | 35.51  | 17.600 | 2.01 | 23.60 | 2.01 |
| 5.700 | 2.68 | 11.700 | 73.70  | 17.700 | 2.68 | 23.70 | 1.34 |
| 5.800 | 2.68 | 11.800 | 73.71  | 17.800 | 2.68 | 23.80 | 1.34 |
| 5.900 | 2.68 | 11.900 | 150.75 | 17.900 | 2.01 | 23.90 | 1.34 |
| 6.000 | 2.68 | 12.000 | 150.74 | 18.000 | 2.01 | 24.00 | 1.34 |

Unit Hyd Qpeak (cms)= 1.341

PEAK FLOW (cms)= 1.612 (i)  
TIME TO PEAK (hrs)= 12.300  
RUNOFF VOLUME (mm)= 69.093  
TOTAL RAINFALL (mm)= 134.000  
RUNOFF COEFFICIENT = 0.516

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```

+ ADD HYD ( 0010)
+ 1 + 2 = 3
=====
ID1= 1 ( 0101): 9.85 1.096 12.25 69.09
+ ID2= 2 ( 0102): 16.50 1.612 12.30 69.09
=====
ID = 3 ( 0010): 26.35 2.680 12.33 69.09

```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```

V V I SSSSS U U A L (v 6.2.2015)
V V I SS U U A A L
V V I SS U U A A A A A L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM
0 0 T T H H Y Y MM MM 0 0
0 0 T T H H Y M M 0 0
000 T T H H Y M M 000

```

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#### \*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\V02\voindat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\ff9df686-5e1c-496a-88a0-1ff6eb36c4ce\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\ff9df686-5e1c-496a-88a0-1ff6eb36c4ce\sc

DATE: 09/21/2025 TIME: 02:51:19

USER:

COMMENTS:

\*\*\*\*\* SIMULATION : 10yr 24hr 12min SCS Type II ( \*\*  
\*\*\*\*\*

MASS STORM  
Filename: C:\Users\hfaulkner\AppData\Local\Temp\c045e6a9-f58e-4cf9-8935-69436263fb31\7ea4ee1e  
Comments: 24-hour SCS Type-II Mass Storm Curve  
Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.00        | 0.94          | 6.00        | 1.87          | 12.00       | 18.74         | 18.00       | 1.41          |
| 0.20        | 0.94          | 6.20        | 1.87          | 12.20       | 11.71         | 18.20       | 1.41          |
| 0.40        | 0.94          | 6.40        | 1.87          | 12.40       | 8.43          | 18.40       | 1.87          |
| 0.60        | 0.94          | 6.60        | 1.87          | 12.60       | 7.96          | 18.60       | 1.41          |
| 0.80        | 0.94          | 6.80        | 1.87          | 12.80       | 5.62          | 18.80       | 1.41          |
| 1.00        | 0.94          | 7.00        | 1.87          | 13.00       | 4.68          | 19.00       | 1.87          |
| 1.20        | 0.94          | 7.20        | 1.87          | 13.20       | 4.68          | 19.20       | 1.41          |
| 1.40        | 0.94          | 7.40        | 1.87          | 13.40       | 4.68          | 19.40       | 1.87          |
| 1.60        | 0.94          | 7.60        | 1.87          | 13.60       | 4.68          | 19.60       | 1.41          |
| 1.80        | 0.94          | 7.80        | 1.87          | 13.80       | 4.69          | 19.80       | 1.87          |
| 2.00        | 0.94          | 8.00        | 2.81          | 14.00       | 2.81          | 20.00       | 1.41          |
| 2.20        | 0.94          | 8.20        | 2.81          | 14.20       | 2.81          | 20.20       | 1.41          |
| 2.40        | 0.94          | 8.40        | 2.81          | 14.40       | 2.81          | 20.40       | 0.94          |
| 2.60        | 0.94          | 8.60        | 2.81          | 14.60       | 2.81          | 20.60       | 1.41          |
| 2.80        | 0.94          | 8.80        | 2.81          | 14.80       | 2.81          | 20.80       | 1.41          |
| 3.00        | 0.94          | 9.00        | 2.81          | 15.00       | 2.34          | 21.00       | 0.94          |
| 3.20        | 0.94          | 9.20        | 2.81          | 15.20       | 2.34          | 21.20       | 1.41          |
| 3.40        | 0.94          | 9.40        | 2.81          | 15.40       | 2.34          | 21.40       | 0.94          |
| 3.60        | 0.94          | 9.60        | 2.81          | 15.60       | 2.34          | 21.60       | 1.41          |
| 3.80        | 0.94          | 9.80        | 2.81          | 15.80       | 2.34          | 21.80       | 0.94          |

|      |      |       |        |       |      |       |      |
|------|------|-------|--------|-------|------|-------|------|
| 4.00 | 1.87 | 10.00 | 5.15   | 16.00 | 2.34 | 22.00 | 0.94 |
| 4.20 | 1.87 | 10.20 | 5.15   | 16.20 | 2.34 | 22.20 | 1.41 |
| 4.40 | 1.87 | 10.40 | 5.15   | 16.40 | 2.34 | 22.40 | 0.94 |
| 4.60 | 1.87 | 10.60 | 5.15   | 16.60 | 2.34 | 22.60 | 1.41 |
| 4.80 | 1.87 | 10.80 | 5.15   | 16.80 | 1.41 | 22.80 | 0.94 |
| 5.00 | 1.87 | 11.00 | 7.03   | 17.00 | 1.41 | 23.00 | 0.94 |
| 5.20 | 1.87 | 11.20 | 10.31  | 17.20 | 1.87 | 23.20 | 0.94 |
| 5.40 | 1.87 | 11.40 | 24.83  | 17.40 | 1.41 | 23.40 | 1.41 |
| 5.60 | 1.87 | 11.60 | 51.53  | 17.60 | 1.87 | 23.60 | 0.94 |
| 5.80 | 1.87 | 11.80 | 105.41 | 17.80 | 1.41 | 23.80 | 0.94 |

CALIB  
NASHYD ( 0101)  
ID= 1 DT= 5.0 min  
Area (ha)= 9.85  
Ia (mm)= 8.00  
U.H. Tp(hrs)= 0.39  
Curve Number (CN)= 71.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |        |        |        |       |       |       |
|------------------------------------|-------|--------|--------|--------|-------|-------|-------|
| TIME                               | RAIN  | TIME   | RAIN   | TIME   | RAIN  | TIME  | RAIN  |
| hrs                                | mm/hr | hrs    | mm/hr  | hrs    | mm/hr | hrs   | mm/hr |
| 0.083                              | 0.94  | 6.083  | 1.87   | 12.083 | 18.75 | 18.08 | 1.41  |
| 0.167                              | 0.94  | 6.167  | 1.87   | 12.167 | 18.74 | 18.17 | 1.41  |
| 0.250                              | 0.94  | 6.250  | 1.87   | 12.250 | 14.52 | 18.25 | 1.41  |
| 0.333                              | 0.94  | 6.333  | 1.87   | 12.333 | 11.71 | 18.33 | 1.41  |
| 0.417                              | 0.94  | 6.417  | 1.87   | 12.417 | 11.06 | 18.42 | 1.50  |
| 0.500                              | 0.94  | 6.500  | 1.87   | 12.500 | 8.43  | 18.50 | 1.87  |
| 0.583                              | 0.94  | 6.583  | 1.87   | 12.583 | 8.43  | 18.58 | 1.87  |
| 0.667                              | 0.94  | 6.667  | 1.87   | 12.667 | 8.06  | 18.67 | 1.50  |
| 0.750                              | 0.94  | 6.750  | 1.87   | 12.750 | 7.96  | 18.75 | 1.41  |
| 0.833                              | 0.94  | 6.833  | 1.87   | 12.833 | 7.03  | 18.83 | 1.41  |
| 0.917                              | 0.94  | 6.917  | 1.87   | 12.917 | 5.62  | 18.92 | 1.41  |
| 1.000                              | 0.94  | 7.000  | 1.87   | 13.000 | 5.62  | 19.00 | 1.41  |
| 1.083                              | 0.94  | 7.083  | 1.87   | 13.083 | 4.69  | 19.08 | 1.87  |
| 1.167                              | 0.94  | 7.167  | 1.87   | 13.167 | 4.68  | 19.17 | 1.87  |
| 1.250                              | 0.94  | 7.250  | 1.87   | 13.250 | 4.68  | 19.25 | 1.59  |
| 1.333                              | 0.94  | 7.333  | 1.87   | 13.333 | 4.68  | 19.33 | 1.41  |
| 1.417                              | 0.94  | 7.417  | 1.87   | 13.417 | 4.68  | 19.42 | 1.50  |
| 1.500                              | 0.94  | 7.500  | 1.87   | 13.500 | 4.68  | 19.50 | 1.87  |
| 1.583                              | 0.94  | 7.583  | 1.87   | 13.583 | 4.68  | 19.58 | 1.87  |
| 1.667                              | 0.94  | 7.667  | 1.87   | 13.667 | 4.68  | 19.67 | 1.50  |
| 1.750                              | 0.94  | 7.750  | 1.87   | 13.750 | 4.68  | 19.75 | 1.41  |
| 1.833                              | 0.94  | 7.833  | 1.87   | 13.833 | 4.68  | 19.83 | 1.59  |
| 1.917                              | 0.94  | 7.917  | 1.87   | 13.917 | 4.69  | 19.92 | 1.87  |
| 2.000                              | 0.94  | 8.000  | 1.87   | 14.000 | 4.69  | 20.00 | 1.87  |
| 2.083                              | 0.94  | 8.083  | 2.81   | 14.083 | 2.81  | 20.08 | 1.41  |
| 2.167                              | 0.94  | 8.167  | 2.81   | 14.167 | 2.81  | 20.17 | 1.41  |
| 2.250                              | 0.94  | 8.250  | 2.81   | 14.250 | 2.81  | 20.25 | 1.41  |
| 2.333                              | 0.94  | 8.333  | 2.81   | 14.333 | 2.81  | 20.33 | 1.41  |
| 2.417                              | 0.94  | 8.417  | 2.81   | 14.417 | 2.81  | 20.42 | 1.31  |
| 2.500                              | 0.94  | 8.500  | 2.81   | 14.500 | 2.81  | 20.50 | 0.94  |
| 2.583                              | 0.94  | 8.583  | 2.81   | 14.583 | 2.81  | 20.58 | 0.94  |
| 2.667                              | 0.94  | 8.667  | 2.81   | 14.667 | 2.81  | 20.67 | 1.31  |
| 2.750                              | 0.94  | 8.750  | 2.81   | 14.750 | 2.81  | 20.75 | 1.41  |
| 2.833                              | 0.94  | 8.833  | 2.81   | 14.833 | 2.81  | 20.83 | 1.41  |
| 2.917                              | 0.94  | 8.917  | 2.81   | 14.917 | 2.81  | 20.92 | 1.41  |
| 3.000                              | 0.94  | 9.000  | 2.81   | 15.000 | 2.81  | 21.00 | 1.41  |
| 3.083                              | 0.94  | 9.083  | 2.81   | 15.083 | 2.34  | 21.08 | 0.94  |
| 3.167                              | 0.94  | 9.167  | 2.81   | 15.167 | 2.34  | 21.17 | 0.94  |
| 3.250                              | 0.94  | 9.250  | 2.81   | 15.250 | 2.34  | 21.25 | 1.22  |
| 3.333                              | 0.94  | 9.333  | 2.81   | 15.333 | 2.34  | 21.33 | 1.41  |
| 3.417                              | 0.94  | 9.417  | 2.81   | 15.417 | 2.34  | 21.42 | 1.31  |
| 3.500                              | 0.94  | 9.500  | 2.81   | 15.500 | 2.34  | 21.50 | 0.94  |
| 3.583                              | 0.94  | 9.583  | 2.81   | 15.583 | 2.34  | 21.58 | 0.94  |
| 3.667                              | 0.94  | 9.667  | 2.81   | 15.667 | 2.34  | 21.67 | 1.31  |
| 3.750                              | 0.94  | 9.750  | 2.81   | 15.750 | 2.34  | 21.75 | 1.41  |
| 3.833                              | 0.94  | 9.833  | 2.81   | 15.833 | 2.34  | 21.83 | 1.22  |
| 3.917                              | 0.94  | 9.917  | 2.81   | 15.917 | 2.34  | 21.92 | 0.94  |
| 4.000                              | 0.94  | 10.000 | 2.81   | 16.000 | 2.34  | 22.00 | 0.94  |
| 4.083                              | 1.87  | 10.083 | 5.15   | 16.083 | 2.34  | 22.08 | 0.94  |
| 4.167                              | 1.87  | 10.167 | 5.15   | 16.167 | 2.34  | 22.17 | 0.94  |
| 4.250                              | 1.87  | 10.250 | 5.15   | 16.250 | 2.34  | 22.25 | 1.22  |
| 4.333                              | 1.87  | 10.333 | 5.15   | 16.333 | 2.34  | 22.33 | 1.41  |
| 4.417                              | 1.87  | 10.417 | 5.15   | 16.417 | 2.34  | 22.42 | 1.31  |
| 4.500                              | 1.87  | 10.500 | 5.15   | 16.500 | 2.34  | 22.50 | 0.94  |
| 4.583                              | 1.87  | 10.583 | 5.15   | 16.583 | 2.34  | 22.58 | 0.94  |
| 4.667                              | 1.87  | 10.667 | 5.15   | 16.667 | 2.34  | 22.67 | 1.31  |
| 4.750                              | 1.87  | 10.750 | 5.15   | 16.750 | 2.34  | 22.75 | 1.41  |
| 4.833                              | 1.87  | 10.833 | 5.15   | 16.833 | 1.97  | 22.83 | 1.22  |
| 4.917                              | 1.87  | 10.917 | 5.15   | 16.917 | 1.41  | 22.92 | 0.94  |
| 5.000                              | 1.87  | 11.000 | 5.15   | 17.000 | 1.41  | 23.00 | 0.94  |
| 5.083                              | 1.87  | 11.083 | 7.03   | 17.083 | 1.41  | 23.08 | 0.94  |
| 5.167                              | 1.87  | 11.167 | 7.03   | 17.167 | 1.41  | 23.17 | 0.94  |
| 5.250                              | 1.87  | 11.250 | 8.99   | 17.250 | 1.69  | 23.25 | 0.94  |
| 5.333                              | 1.87  | 11.333 | 10.31  | 17.333 | 1.87  | 23.33 | 0.94  |
| 5.417                              | 1.87  | 11.417 | 13.21  | 17.417 | 1.78  | 23.42 | 1.03  |
| 5.500                              | 1.87  | 11.500 | 24.83  | 17.500 | 1.41  | 23.50 | 1.41  |
| 5.583                              | 1.87  | 11.583 | 24.83  | 17.583 | 1.41  | 23.58 | 1.41  |
| 5.667                              | 1.87  | 11.667 | 46.19  | 17.667 | 1.78  | 23.67 | 1.03  |
| 5.750                              | 1.87  | 11.750 | 51.53  | 17.750 | 1.87  | 23.75 | 0.94  |
| 5.833                              | 1.87  | 11.833 | 73.08  | 17.833 | 1.69  | 23.83 | 0.94  |
| 5.917                              | 1.87  | 11.917 | 105.41 | 17.917 | 1.41  | 23.92 | 0.94  |
| 6.000                              | 1.87  | 12.000 | 105.41 | 18.000 | 1.41  | 24.00 | 0.94  |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 0.800 | 0.94 | 6.800  | 1.87   | 12.800 | 7.96 | 18.80 | 1.41 |
| 0.900 | 0.94 | 6.900  | 1.87   | 12.900 | 5.62 | 18.90 | 1.41 |
| 1.000 | 0.94 | 7.000  | 1.87   | 13.000 | 5.62 | 19.00 | 1.41 |
| 1.100 | 0.94 | 7.100  | 1.87   | 13.100 | 4.68 | 19.10 | 1.87 |
| 1.200 | 0.94 | 7.200  | 1.87   | 13.200 | 4.69 | 19.20 | 1.87 |
| 1.300 | 0.94 | 7.300  | 1.87   | 13.300 | 4.68 | 19.30 | 1.41 |
| 1.400 | 0.94 | 7.400  | 1.87   | 13.400 | 4.69 | 19.40 | 1.41 |
| 1.500 | 0.94 | 7.500  | 1.87   | 13.500 | 4.68 | 19.50 | 1.87 |
| 1.600 | 0.94 | 7.600  | 1.87   | 13.600 | 4.69 | 19.60 | 1.87 |
| 1.700 | 0.94 | 7.700  | 1.87   | 13.700 | 4.68 | 19.70 | 1.41 |
| 1.800 | 0.94 | 7.800  | 1.87   | 13.800 | 4.69 | 19.80 | 1.41 |
| 1.900 | 0.94 | 7.900  | 1.87   | 13.900 | 4.69 | 19.90 | 1.87 |
| 2.000 | 0.94 | 8.000  | 1.87   | 14.000 | 4.68 | 20.00 | 1.87 |
| 2.100 | 0.94 | 8.100  | 2.81   | 14.100 | 2.81 | 20.10 | 1.41 |
| 2.200 | 0.94 | 8.200  | 2.81   | 14.200 | 2.81 | 20.20 | 1.41 |
| 2.300 | 0.94 | 8.300  | 2.81   | 14.300 | 2.81 | 20.30 | 1.41 |
| 2.400 | 0.94 | 8.400  | 2.81   | 14.400 | 2.81 | 20.40 | 1.41 |
| 2.500 | 0.94 | 8.500  | 2.81   | 14.500 | 2.81 | 20.50 | 0.94 |
| 2.600 | 0.94 | 8.600  | 2.81   | 14.600 | 2.81 | 20.60 | 0.94 |
| 2.700 | 0.94 | 8.700  | 2.81   | 14.700 | 2.81 | 20.70 | 1.41 |
| 2.800 | 0.94 | 8.800  | 2.81   | 14.800 | 2.81 | 20.80 | 1.41 |
| 2.900 | 0.94 | 8.900  | 2.81   | 14.900 | 2.81 | 20.90 | 1.41 |
| 3.000 | 0.94 | 9.000  | 2.81   | 15.000 | 2.81 | 21.00 | 1.41 |
| 3.100 | 0.94 | 9.100  | 2.81   | 15.100 | 2.34 | 21.10 | 0.94 |
| 3.200 | 0.94 | 9.200  | 2.81   | 15.200 | 2.34 | 21.20 | 0.94 |
| 3.300 | 0.94 | 9.300  | 2.81   | 15.300 | 2.34 | 21.30 | 1.41 |
| 3.400 | 0.94 | 9.400  | 2.81   | 15.400 | 2.34 | 21.40 | 1.41 |
| 3.500 | 0.94 | 9.500  | 2.81   | 15.500 | 2.34 | 21.50 | 0.94 |
| 3.600 | 0.94 | 9.600  | 2.81   | 15.600 | 2.34 | 21.60 | 0.94 |
| 3.700 | 0.94 | 9.700  | 2.81   | 15.700 | 2.34 | 21.70 | 1.41 |
| 3.800 | 0.94 | 9.800  | 2.81   | 15.800 | 2.34 | 21.80 | 1.41 |
| 3.900 | 0.94 | 9.900  | 2.81   | 15.900 | 2.34 | 21.90 | 0.94 |
| 4.000 | 0.94 | 10.000 | 2.81   | 16.000 | 2.34 | 22.00 | 0.94 |
| 4.100 | 1.87 | 10.100 | 5.15   | 16.100 | 2.34 | 22.10 | 0.94 |
| 4.200 | 1.87 | 10.200 | 5.15   | 16.200 | 2.34 | 22.20 | 0.94 |
| 4.300 | 1.87 | 10.300 | 5.15   | 16.300 | 2.34 | 22.30 | 1.41 |
| 4.400 | 1.87 | 10.400 | 5.15   | 16.400 | 2.34 | 22.40 | 1.41 |
| 4.500 | 1.87 | 10.500 | 5.15   | 16.500 | 2.34 | 22.50 | 0.94 |
| 4.600 | 1.87 | 10.600 | 5.15   | 16.600 | 2.34 | 22.60 | 0.94 |
| 4.700 | 1.87 | 10.700 | 5.15   | 16.700 | 2.34 | 22.70 | 1.41 |
| 4.800 | 1.87 | 10.800 | 5.15   | 16.800 | 2.34 | 22.80 | 1.41 |
| 4.900 | 1.87 | 10.900 | 5.15   | 16.900 | 1.41 | 22.90 | 0.94 |
| 5.000 | 1.87 | 11.000 | 5.15   | 17.000 | 1.41 | 23.00 | 0.94 |
| 5.100 | 1.87 | 11.100 | 7.03   | 17.100 | 1.41 | 23.10 | 0.94 |
| 5.200 | 1.87 | 11.200 | 7.03   | 17.200 | 1.41 | 23.20 | 0.94 |
| 5.300 | 1.87 | 11.300 | 10.31  | 17.300 | 1.87 | 23.30 | 0.94 |
| 5.400 | 1.87 | 11.400 | 10.31  | 17.400 | 1.87 | 23.40 | 0.94 |
| 5.500 | 1.87 | 11.500 | 24.83  | 17.500 | 1.41 | 23.50 | 1.41 |
| 5.600 | 1.87 | 11.600 | 24.83  | 17.600 | 1.41 | 23.60 | 1.41 |
| 5.700 | 1.87 | 11.700 | 51.53  | 17.700 | 1.87 | 23.70 | 0.94 |
| 5.800 | 1.87 | 11.800 | 51.54  | 17.800 | 1.87 | 23.80 | 0.94 |
| 5.900 | 1.87 | 11.900 | 105.41 | 17.900 | 1.41 | 23.90 | 0.94 |
| 6.000 | 1.87 | 12.000 | 105.40 | 18.000 | 1.41 | 24.00 | 0.94 |

Unit Hyd Qpeak (cms)= 1.341

PEAK FLOW (cms)= 0.888 (i)  
TIME TO PEAK (hrs)= 12.300  
RUNOFF VOLUME (mm)= 38.763  
TOTAL RAINFALL (mm)= 93.700  
RUNOFF COEFFICIENT = 0.414

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| ADD HYD ( 0010)   | AREA  | QPEAK | TPEAK | R.V.  |
| 1 + 2 = 3         | (ha)  | (cms) | (hrs) | (mm)  |
| ID1= 1 ( 0101):   | 9.85  | 0.605 | 12.25 | 38.76 |
| + ID2= 2 ( 0102): | 16.50 | 0.888 | 12.30 | 38.76 |
| ID = 3 ( 0010):   | 26.35 | 1.483 | 12.33 | 38.76 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U A A A A L  
V V I SS U U A A L  
VV I SSSSS UUUU A A LLLL  
000 TTTT TTTT H H Y Y M M 000 TM  
O O T T H H Y Y M M O O  
O O T T H H Y Y M M O O  
O O T T H H Y Y M M O O

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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2Voin.dat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde9009059\16c744a3-0364-4273-bde5-edf17de7aa70\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde9009059\16c744a3-0364-4273-bde5-edf17de7aa70\sc

DATE: 09/21/2025

TIME: 02:51:18

USER:

COMMENTS:

Mass curve time step = 12.00 min

| TIME | RAIN  | TIME  | RAIN   | TIME  | RAIN  | TIME  | RAIN  |
|------|-------|-------|--------|-------|-------|-------|-------|
| hrs  | mm/hr | hrs   | mm/hr  | hrs   | mm/hr | hrs   | mm/hr |
| 0.00 | 1.10  | 6.00  | 2.20   | 12.00 | 22.02 | 18.00 | 1.65  |
| 0.20 | 1.10  | 6.20  | 2.20   | 12.20 | 13.76 | 18.20 | 1.65  |
| 0.40 | 1.10  | 6.40  | 2.20   | 12.40 | 9.91  | 18.40 | 2.20  |
| 0.60 | 1.10  | 6.60  | 2.20   | 12.60 | 9.36  | 18.60 | 1.65  |
| 0.80 | 1.10  | 6.80  | 2.20   | 12.80 | 6.61  | 18.80 | 1.65  |
| 1.00 | 1.10  | 7.00  | 2.20   | 13.00 | 5.50  | 19.00 | 2.20  |
| 1.20 | 1.10  | 7.20  | 2.20   | 13.20 | 5.50  | 19.20 | 1.65  |
| 1.40 | 1.10  | 7.40  | 2.20   | 13.40 | 5.50  | 19.40 | 2.20  |
| 1.60 | 1.10  | 7.60  | 2.20   | 13.60 | 5.50  | 19.60 | 1.65  |
| 1.80 | 1.10  | 7.80  | 2.20   | 13.80 | 5.51  | 19.80 | 2.20  |
| 2.00 | 1.10  | 8.00  | 3.30   | 14.00 | 3.30  | 20.00 | 1.65  |
| 2.20 | 1.10  | 8.20  | 3.30   | 14.20 | 3.30  | 20.20 | 1.65  |
| 2.40 | 1.10  | 8.40  | 3.30   | 14.40 | 3.30  | 20.40 | 1.10  |
| 2.60 | 1.10  | 8.60  | 3.30   | 14.60 | 3.30  | 20.60 | 1.65  |
| 2.80 | 1.10  | 8.80  | 3.30   | 14.80 | 3.30  | 20.80 | 1.65  |
| 3.00 | 1.10  | 9.00  | 3.30   | 15.00 | 2.75  | 21.00 | 1.10  |
| 3.20 | 1.10  | 9.20  | 3.30   | 15.20 | 2.75  | 21.20 | 1.65  |
| 3.40 | 1.10  | 9.40  | 3.30   | 15.40 | 2.75  | 21.40 | 1.10  |
| 3.60 | 1.10  | 9.60  | 3.30   | 15.60 | 2.75  | 21.60 | 1.65  |
| 3.80 | 1.10  | 9.80  | 3.30   | 15.80 | 2.75  | 21.80 | 1.10  |
| 4.00 | 2.20  | 10.00 | 6.06   | 16.00 | 2.75  | 22.00 | 1.10  |
| 4.20 | 2.20  | 10.20 | 6.06   | 16.20 | 2.75  | 22.20 | 1.65  |
| 4.40 | 2.20  | 10.40 | 6.06   | 16.40 | 2.75  | 22.40 | 1.10  |
| 4.60 | 2.20  | 10.60 | 6.06   | 16.60 | 2.75  | 22.60 | 1.65  |
| 4.80 | 2.20  | 10.80 | 6.06   | 16.80 | 1.65  | 22.80 | 1.10  |
| 5.00 | 2.20  | 11.00 | 8.26   | 17.00 | 1.65  | 23.00 | 1.10  |
| 5.20 | 2.20  | 11.20 | 12.11  | 17.20 | 2.20  | 23.20 | 1.10  |
| 5.40 | 2.20  | 11.40 | 29.18  | 17.40 | 1.65  | 23.40 | 1.65  |
| 5.60 | 2.20  | 11.60 | 60.56  | 17.60 | 2.20  | 23.60 | 1.10  |
| 5.80 | 2.20  | 11.80 | 123.86 | 17.80 | 1.65  | 23.80 | 1.10  |

CALIB NASHYD ( 0101) Area (ha)= 9.85 Curve Number (CN)= 71.0  
ID= 1 DT= 5.0 min Ia (mm)= 8.00 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.39

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |        |        |        |       |       |       |
|------------------------------------|-------|--------|--------|--------|-------|-------|-------|
| TIME                               | RAIN  | TIME   | RAIN   | TIME   | RAIN  | TIME  | RAIN  |
| hrs                                | mm/hr | hrs    | mm/hr  | hrs    | mm/hr | hrs   | mm/hr |
| 0.083                              | 1.10  | 6.083  | 2.20   | 12.083 | 22.03 | 18.08 | 1.65  |
| 0.167                              | 1.10  | 6.167  | 2.20   | 12.167 | 22.02 | 18.17 | 1.65  |
| 0.250                              | 1.10  | 6.250  | 2.20   | 12.250 | 17.07 | 18.25 | 1.65  |
| 0.333                              | 1.10  | 6.333  | 2.20   | 12.333 | 13.76 | 18.33 | 1.65  |
| 0.417                              | 1.10  | 6.417  | 2.20   | 12.417 | 12.99 | 18.42 | 1.76  |
| 0.500                              | 1.10  | 6.500  | 2.20   | 12.500 | 9.91  | 18.50 | 2.20  |
| 0.583                              | 1.10  | 6.583  | 2.20   | 12.583 | 9.91  | 18.58 | 2.20  |
| 0.667                              | 1.10  | 6.667  | 2.20   | 12.667 | 9.47  | 18.67 | 1.76  |
| 0.750                              | 1.10  | 6.750  | 2.20   | 12.750 | 9.36  | 18.75 | 1.65  |
| 0.833                              | 1.10  | 6.833  | 2.20   | 12.833 | 8.26  | 18.83 | 1.65  |
| 0.917                              | 1.10  | 6.917  | 2.20   | 12.917 | 6.61  | 18.92 | 1.65  |
| 1.000                              | 1.10  | 7.000  | 2.20   | 13.000 | 6.61  | 19.00 | 1.65  |
| 1.083                              | 1.10  | 7.083  | 2.20   | 13.083 | 5.51  | 19.08 | 2.20  |
| 1.167                              | 1.10  | 7.167  | 2.20   | 13.167 | 5.50  | 19.17 | 2.20  |
| 1.250                              | 1.10  | 7.250  | 2.20   | 13.250 | 5.50  | 19.25 | 1.87  |
| 1.333                              | 1.10  | 7.333  | 2.20   | 13.333 | 5.50  | 19.33 | 1.65  |
| 1.417                              | 1.10  | 7.417  | 2.20   | 13.417 | 5.50  | 19.42 | 1.76  |
| 1.500                              | 1.10  | 7.500  | 2.20   | 13.500 | 5.50  | 19.50 | 2.20  |
| 1.583                              | 1.10  | 7.583  | 2.20   | 13.583 | 5.50  | 19.58 | 2.20  |
| 1.667                              | 1.10  | 7.667  | 2.20   | 13.667 | 5.50  | 19.67 | 1.76  |
| 1.750                              | 1.10  | 7.750  | 2.20   | 13.750 | 5.50  | 19.75 | 1.65  |
| 1.833                              | 1.10  | 7.833  | 2.20   | 13.833 | 5.50  | 19.83 | 1.87  |
| 1.917                              | 1.10  | 7.917  | 2.20   | 13.917 | 5.51  | 19.92 | 2.20  |
| 2.000                              | 1.10  | 8.000  | 2.20   | 14.000 | 5.51  | 20.00 | 2.20  |
| 2.083                              | 1.10  | 8.083  | 3.30   | 14.083 | 3.30  | 20.08 | 1.65  |
| 2.167                              | 1.10  | 8.167  | 3.30   | 14.167 | 3.30  | 20.17 | 1.65  |
| 2.250                              | 1.10  | 8.250  | 3.30   | 14.250 | 3.30  | 20.25 | 1.65  |
| 2.333                              | 1.10  | 8.333  | 3.30   | 14.333 | 3.30  | 20.33 | 1.65  |
| 2.417                              | 1.10  | 8.417  | 3.30   | 14.417 | 3.30  | 20.42 | 1.54  |
| 2.500                              | 1.10  | 8.500  | 3.30   | 14.500 | 3.30  | 20.50 | 1.10  |
| 2.583                              | 1.10  | 8.583  | 3.30   | 14.583 | 3.30  | 20.58 | 1.10  |
| 2.667                              | 1.10  | 8.667  | 3.30   | 14.667 | 3.30  | 20.67 | 1.54  |
| 2.750                              | 1.10  | 8.750  | 3.30   | 14.750 | 3.30  | 20.75 | 1.65  |
| 2.833                              | 1.10  | 8.833  | 3.30   | 14.833 | 3.30  | 20.83 | 1.65  |
| 2.917                              | 1.10  | 8.917  | 3.30   | 14.917 | 3.30  | 20.92 | 1.65  |
| 3.000                              | 1.10  | 9.000  | 3.30   | 15.000 | 3.30  | 21.00 | 1.65  |
| 3.083                              | 1.10  | 9.083  | 3.30   | 15.083 | 2.75  | 21.08 | 1.10  |
| 3.167                              | 1.10  | 9.167  | 3.30   | 15.167 | 2.75  | 21.17 | 1.10  |
| 3.250                              | 1.10  | 9.250  | 3.30   | 15.250 | 2.75  | 21.25 | 1.43  |
| 3.333                              | 1.10  | 9.333  | 3.30   | 15.333 | 2.75  | 21.33 | 1.65  |
| 3.417                              | 1.10  | 9.417  | 3.30   | 15.417 | 2.75  | 21.42 | 1.54  |
| 3.500                              | 1.10  | 9.500  | 3.30   | 15.500 | 2.75  | 21.50 | 1.10  |
| 3.583                              | 1.10  | 9.583  | 3.30   | 15.583 | 2.75  | 21.58 | 1.10  |
| 3.667                              | 1.10  | 9.667  | 3.30   | 15.667 | 2.75  | 21.67 | 1.54  |
| 3.750                              | 1.10  | 9.750  | 3.30   | 15.750 | 2.75  | 21.75 | 1.65  |
| 3.833                              | 1.10  | 9.833  | 3.30   | 15.833 | 2.75  | 21.83 | 1.43  |
| 3.917                              | 1.10  | 9.917  | 3.30   | 15.917 | 2.75  | 21.92 | 1.10  |
| 4.000                              | 1.10  | 10.000 | 3.30   | 16.000 | 2.75  | 22.00 | 1.10  |
| 4.083                              | 2.20  | 10.083 | 6.06   | 16.083 | 2.75  | 22.08 | 1.10  |
| 4.167                              | 2.20  | 10.167 | 6.06   | 16.167 | 2.75  | 22.17 | 1.10  |
| 4.250                              | 2.20  | 10.250 | 6.06   | 16.250 | 2.75  | 22.25 | 1.43  |
| 4.333                              | 2.20  | 10.333 | 6.06   | 16.333 | 2.75  | 22.33 | 1.65  |
| 4.417                              | 2.20  | 10.417 | 6.06   | 16.417 | 2.75  | 22.42 | 1.54  |
| 4.500                              | 2.20  | 10.500 | 6.06   | 16.500 | 2.75  | 22.50 | 1.10  |
| 4.583                              | 2.20  | 10.583 | 6.06   | 16.583 | 2.75  | 22.58 | 1.10  |
| 4.667                              | 2.20  | 10.667 | 6.06   | 16.667 | 2.75  | 22.67 | 1.54  |
| 4.750                              | 2.20  | 10.750 | 6.06   | 16.750 | 2.75  | 22.75 | 1.65  |
| 4.833                              | 2.20  | 10.833 | 6.06   | 16.833 | 2.31  | 22.83 | 1.43  |
| 4.917                              | 2.20  | 10.917 | 6.06   | 16.917 | 1.65  | 22.92 | 1.10  |
| 5.000                              | 2.20  | 11.000 | 6.06   | 17.000 | 1.65  | 23.00 | 1.10  |
| 5.083                              | 2.20  | 11.083 | 8.26   | 17.083 | 1.65  | 23.08 | 1.10  |
| 5.167                              | 2.20  | 11.167 | 8.26   | 17.167 | 1.65  | 23.17 | 1.10  |
| 5.250                              | 2.20  | 11.250 | 10.57  | 17.250 | 1.98  | 23.25 | 1.10  |
| 5.333                              | 2.20  | 11.333 | 12.11  | 17.333 | 2.29  | 23.33 | 1.10  |
| 5.417                              | 2.20  | 11.417 | 15.52  | 17.417 | 1.65  | 23.42 | 1.21  |
| 5.500                              | 2.20  | 11.500 | 29.18  | 17.500 | 1.65  | 23.50 | 1.10  |
| 5.583                              | 2.20  | 11.583 | 29.18  | 17.583 | 1.65  | 23.58 | 1.65  |
| 5.667                              | 2.20  | 11.667 | 54.28  | 17.667 | 2.09  | 23.67 | 1.21  |
| 5.750                              | 2.20  | 11.750 | 65.56  | 17.750 | 2.20  | 23.75 | 1.10  |
| 5.833                              | 2.20  | 11.833 | 80.57  | 17.833 | 1.98  | 23.83 | 1.10  |
| 5.917                              | 2.20  | 11.917 | 123.86 | 17.917 | 1.65  | 23.92 | 1.10  |
| 6.000                              | 2.20  | 12.000 | 123.86 | 18.000 | 1.65  | 24.00 | 1.10  |

RUNOFF COEFFICIENT = 0.460

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

DATE: 09/21/2025

TIME: 02:51:19

USER:

COMMENTS:

CALIB  
NASHYD ( 0102)  
ID= 1 DT= 6.0 min  
Area (ha)= 16.50  
Ia (mm)= 8.00  
U.H. Tp(hrs)= 0.47  
Curve Number (CN)= 71.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 6.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |        |        |        |       |       |       |      |       |
|------------------------------------|-------|--------|--------|--------|-------|-------|-------|------|-------|
| TIME                               | RAIN  | TIME   | RAIN   | TIME   | RAIN  | TIME  | RAIN  | TIME | RAIN  |
| hrs                                | mm/hr | hrs    | mm/hr  | hrs    | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.100                              | 1.10  | 6.100  | 2.20   | 12.100 | 22.02 | 18.10 | 1.65  |      |       |
| 0.200                              | 1.10  | 6.200  | 2.20   | 12.200 | 22.02 | 18.20 | 1.65  |      |       |
| 0.300                              | 1.10  | 6.300  | 2.20   | 12.300 | 13.76 | 18.30 | 1.65  |      |       |
| 0.400                              | 1.10  | 6.400  | 2.20   | 12.400 | 13.76 | 18.40 | 1.65  |      |       |
| 0.500                              | 1.10  | 6.500  | 2.20   | 12.500 | 9.91  | 18.50 | 2.20  |      |       |
| 0.600                              | 1.10  | 6.600  | 2.20   | 12.600 | 9.91  | 18.60 | 2.20  |      |       |
| 0.700                              | 1.10  | 6.700  | 2.20   | 12.700 | 9.36  | 18.70 | 1.65  |      |       |
| 0.800                              | 1.10  | 6.800  | 2.20   | 12.800 | 9.36  | 18.80 | 1.65  |      |       |
| 0.900                              | 1.10  | 6.900  | 2.20   | 12.900 | 6.61  | 18.90 | 1.65  |      |       |
| 1.000                              | 1.10  | 7.000  | 2.20   | 13.000 | 6.61  | 19.00 | 1.65  |      |       |
| 1.100                              | 1.10  | 7.100  | 2.20   | 13.100 | 5.50  | 19.10 | 2.20  |      |       |
| 1.200                              | 1.10  | 7.200  | 2.20   | 13.200 | 5.51  | 19.20 | 2.20  |      |       |
| 1.300                              | 1.10  | 7.300  | 2.20   | 13.300 | 5.50  | 19.30 | 1.65  |      |       |
| 1.400                              | 1.10  | 7.400  | 2.20   | 13.400 | 5.51  | 19.40 | 1.65  |      |       |
| 1.500                              | 1.10  | 7.500  | 2.20   | 13.500 | 5.50  | 19.50 | 2.20  |      |       |
| 1.600                              | 1.10  | 7.600  | 2.20   | 13.600 | 5.51  | 19.60 | 2.20  |      |       |
| 1.700                              | 1.10  | 7.700  | 2.20   | 13.700 | 5.50  | 19.70 | 1.65  |      |       |
| 1.800                              | 1.10  | 7.800  | 2.20   | 13.800 | 5.51  | 19.80 | 1.65  |      |       |
| 1.900                              | 1.10  | 7.900  | 2.20   | 13.900 | 5.51  | 19.90 | 2.20  |      |       |
| 2.000                              | 1.10  | 8.000  | 2.20   | 14.000 | 5.50  | 20.00 | 2.20  |      |       |
| 2.100                              | 1.10  | 8.100  | 3.30   | 14.100 | 3.30  | 20.10 | 1.65  |      |       |
| 2.200                              | 1.10  | 8.200  | 3.30   | 14.200 | 3.30  | 20.20 | 1.65  |      |       |
| 2.300                              | 1.10  | 8.300  | 3.30   | 14.300 | 3.30  | 20.30 | 1.65  |      |       |
| 2.400                              | 1.10  | 8.400  | 3.30   | 14.400 | 3.30  | 20.40 | 1.65  |      |       |
| 2.500                              | 1.10  | 8.500  | 3.30   | 14.500 | 3.30  | 20.50 | 1.10  |      |       |
| 2.600                              | 1.10  | 8.600  | 3.30   | 14.600 | 3.30  | 20.60 | 1.10  |      |       |
| 2.700                              | 1.10  | 8.700  | 3.30   | 14.700 | 3.30  | 20.70 | 1.65  |      |       |
| 2.800                              | 1.10  | 8.800  | 3.30   | 14.800 | 3.30  | 20.80 | 1.65  |      |       |
| 2.900                              | 1.10  | 8.900  | 3.30   | 14.900 | 3.30  | 20.90 | 1.65  |      |       |
| 3.000                              | 1.10  | 9.000  | 3.30   | 15.000 | 3.30  | 21.00 | 1.65  |      |       |
| 3.100                              | 1.10  | 9.100  | 3.30   | 15.100 | 2.75  | 21.10 | 1.10  |      |       |
| 3.200                              | 1.10  | 9.200  | 3.30   | 15.200 | 2.75  | 21.20 | 1.10  |      |       |
| 3.300                              | 1.10  | 9.300  | 3.30   | 15.300 | 2.75  | 21.30 | 1.65  |      |       |
| 3.400                              | 1.10  | 9.400  | 3.30   | 15.400 | 2.75  | 21.40 | 1.65  |      |       |
| 3.500                              | 1.10  | 9.500  | 3.30   | 15.500 | 2.75  | 21.50 | 1.10  |      |       |
| 3.600                              | 1.10  | 9.600  | 3.30   | 15.600 | 2.75  | 21.60 | 1.10  |      |       |
| 3.700                              | 1.10  | 9.700  | 3.30   | 15.700 | 2.75  | 21.70 | 1.65  |      |       |
| 3.800                              | 1.10  | 9.800  | 3.30   | 15.800 | 2.75  | 21.80 | 1.65  |      |       |
| 3.900                              | 1.10  | 9.900  | 3.30   | 15.900 | 2.75  | 21.90 | 1.10  |      |       |
| 4.000                              | 1.10  | 10.000 | 3.30   | 16.000 | 2.75  | 22.00 | 1.10  |      |       |
| 4.100                              | 2.20  | 10.100 | 6.06   | 16.100 | 2.75  | 22.10 | 1.10  |      |       |
| 4.200                              | 2.20  | 10.200 | 6.06   | 16.200 | 2.75  | 22.20 | 1.10  |      |       |
| 4.300                              | 2.20  | 10.300 | 6.06   | 16.300 | 2.75  | 22.30 | 1.65  |      |       |
| 4.400                              | 2.20  | 10.400 | 6.06   | 16.400 | 2.75  | 22.40 | 1.65  |      |       |
| 4.500                              | 2.20  | 10.500 | 6.06   | 16.500 | 2.75  | 22.50 | 1.10  |      |       |
| 4.600                              | 2.20  | 10.600 | 6.06   | 16.600 | 2.75  | 22.60 | 1.10  |      |       |
| 4.700                              | 2.20  | 10.700 | 6.06   | 16.700 | 2.75  | 22.70 | 1.65  |      |       |
| 4.800                              | 2.20  | 10.800 | 6.06   | 16.800 | 2.75  | 22.80 | 1.65  |      |       |
| 4.900                              | 2.20  | 10.900 | 6.06   | 16.900 | 1.65  | 22.90 | 1.10  |      |       |
| 5.000                              | 2.20  | 11.000 | 6.06   | 17.000 | 1.65  | 23.00 | 1.10  |      |       |
| 5.100                              | 2.20  | 11.100 | 8.26   | 17.100 | 1.65  | 23.10 | 1.10  |      |       |
| 5.200                              | 2.20  | 11.200 | 8.26   | 17.200 | 1.65  | 23.20 | 1.10  |      |       |
| 5.300                              | 2.20  | 11.300 | 12.11  | 17.300 | 2.20  | 23.30 | 1.10  |      |       |
| 5.400                              | 2.20  | 11.400 | 12.11  | 17.400 | 2.20  | 23.40 | 1.10  |      |       |
| 5.500                              | 2.20  | 11.500 | 29.18  | 17.500 | 1.65  | 23.50 | 1.65  |      |       |
| 5.600                              | 2.20  | 11.600 | 29.18  | 17.600 | 1.65  | 23.60 | 1.65  |      |       |
| 5.700                              | 2.20  | 11.700 | 60.56  | 17.700 | 2.20  | 23.70 | 1.10  |      |       |
| 5.800                              | 2.20  | 11.800 | 60.56  | 17.800 | 2.20  | 23.80 | 1.10  |      |       |
| 5.900                              | 2.20  | 11.900 | 123.86 | 17.900 | 1.65  | 23.90 | 1.10  |      |       |
| 6.000                              | 2.20  | 12.000 | 123.85 | 18.000 | 1.65  | 24.00 | 1.10  |      |       |

Unit Hyd Ppeak (cms)= 1.341

PEAK FLOW (cms)= 1.171 (i)  
TIME TO PEAK (hrs)= 12.300  
RUNOFF VOLUME (mm)= 50.635  
TOTAL RAINFALL (mm)= 110.100  
RUNOFF COEFFICIENT = 0.460

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0010)  
1 + 2 = 3  
ID1= 1 ( 0101): 9.85 0.797 12.25 50.63  
+ ID2= 2 ( 0102): 16.50 1.171 12.30 50.63  
ID = 3 ( 0010): 26.35 1.951 12.33 50.63

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.2.015)  
V V I SS U U A A L  
V V I SS U U A A A A L  
V V I SS U U A A L  
VV I SSSSS UUUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM  
O O T T H H Y Y M M O O  
O O T T H H Y Y M M O O  
000 T T H H Y Y M M 000

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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\af030f24-2809-491c-a93f-2c9e9b512295\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\af030f24-2809-491c-a93f-2c9e9b512295\sc

\*\* SIMULATION : 2yr 24hr 12min SCS Type II (M \*\*  
\*\*\*\*\*

MASS STORM  
Ptotal= 61.20 mm  
Filename: C:\Users\hfaulkner\AppData\Local\Temp\c045e6a9-f58e-4cf9-8935-69436263fb31\7aaaa25d  
Comments: 24-hour SCS Type-II Mass Storm Curve

Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

| TIME | RAIN  | TIME  | RAIN  | TIME  | RAIN  | TIME  | RAIN  |
|------|-------|-------|-------|-------|-------|-------|-------|
| hrs  | mm/hr | hrs   | mm/hr | hrs   | mm/hr | hrs   | mm/hr |
| 0.00 | 0.61  | 6.00  | 1.22  | 12.00 | 12.24 | 18.00 | 0.92  |
| 0.20 | 0.61  | 6.20  | 1.22  | 12.20 | 7.65  | 18.20 | 0.92  |
| 0.40 | 0.61  | 6.40  | 1.22  | 12.40 | 5.51  | 18.40 | 1.22  |
| 0.60 | 0.61  | 6.60  | 1.22  | 12.60 | 5.20  | 18.60 | 0.92  |
| 0.80 | 0.61  | 6.80  | 1.22  | 12.80 | 3.67  | 18.80 | 0.92  |
| 1.00 | 0.61  | 7.00  | 1.22  | 13.00 | 3.06  | 19.00 | 1.22  |
| 1.20 | 0.61  | 7.20  | 1.22  | 13.20 | 3.06  | 19.20 | 0.92  |
| 1.40 | 0.61  | 7.40  | 1.22  | 13.40 | 3.06  | 19.40 | 1.22  |
| 1.60 | 0.61  | 7.60  | 1.22  | 13.60 | 3.06  | 19.60 | 0.92  |
| 1.80 | 0.61  | 7.80  | 1.22  | 13.80 | 3.06  | 19.80 | 1.22  |
| 2.00 | 0.61  | 8.00  | 1.84  | 14.00 | 1.84  | 20.00 | 0.92  |
| 2.20 | 0.61  | 8.20  | 1.84  | 14.20 | 1.84  | 20.20 | 0.92  |
| 2.40 | 0.61  | 8.40  | 1.84  | 14.40 | 1.84  | 20.40 | 0.61  |
| 2.60 | 0.61  | 8.60  | 1.84  | 14.60 | 1.84  | 20.60 | 0.92  |
| 2.80 | 0.61  | 8.80  | 1.84  | 14.80 | 1.84  | 20.80 | 0.92  |
| 3.00 | 0.61  | 9.00  | 1.84  | 15.00 | 1.53  | 21.00 | 0.61  |
| 3.20 | 0.61  | 9.20  | 1.84  | 15.20 | 1.53  | 21.20 | 0.92  |
| 3.40 | 0.61  | 9.40  | 1.84  | 15.40 | 1.53  | 21.40 | 0.61  |
| 3.60 | 0.61  | 9.60  | 1.84  | 15.60 | 1.53  | 21.60 | 0.92  |
| 3.80 | 0.61  | 9.80  | 1.84  | 15.80 | 1.53  | 21.80 | 0.61  |
| 4.00 | 1.22  | 10.00 | 3.37  | 16.00 | 1.53  | 22.00 | 0.61  |
| 4.20 | 1.22  | 10.20 | 3.37  | 16.20 | 1.53  | 22.20 | 0.92  |
| 4.40 | 1.22  | 10.40 | 3.37  | 16.40 | 1.53  | 22.40 | 0.61  |
| 4.60 | 1.22  | 10.60 | 3.37  | 16.60 | 1.53  | 22.60 | 0.92  |
| 4.80 | 1.22  | 10.80 | 3.37  | 16.80 | 0.92  | 22.80 | 0.61  |
| 5.00 | 1.22  | 11.00 | 4.59  | 17.00 | 0.92  | 23.00 | 0.61  |
| 5.20 | 1.22  | 11.20 | 6.73  | 17.20 | 1.22  | 23.20 | 0.61  |
| 5.40 | 1.22  | 11.40 | 16.22 | 17.40 | 0.92  | 23.40 | 0.92  |
| 5.60 | 1.22  | 11.60 | 33.66 | 17.60 | 1.22  | 23.60 | 0.61  |
| 5.80 | 1.22  | 11.80 | 68.85 | 17.80 | 0.92  | 23.80 | 0.61  |

CALIB  
NASHYD ( 0101)  
ID= 1 DT= 5.0 min  
Area (ha)= 9.85  
Ia (mm)= 8.00  
U.H. Tp(hrs)= 0.39  
Curve Number (CN)= 71.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |        |       |        |       |       |       |      |       |
|------------------------------------|-------|--------|-------|--------|-------|-------|-------|------|-------|
| TIME                               | RAIN  | TIME   | RAIN  | TIME   | RAIN  | TIME  | RAIN  | TIME | RAIN  |
| hrs                                | mm/hr | hrs    | mm/hr | hrs    | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.083                              | 0.61  | 6.083  | 1.22  | 12.083 | 12.25 | 18.08 | 0.92  |      |       |
| 0.167                              | 0.61  | 6.167  | 1.22  | 12.167 | 12.24 | 18.17 | 0.92  |      |       |
| 0.250                              | 0.61  | 6.250  | 1.22  | 12.250 | 9.49  | 18.25 | 0.92  |      |       |
| 0.333                              | 0.61  | 6.333  | 1.22  | 12.333 | 7.65  | 18.33 | 0.92  |      |       |
| 0.417                              | 0.61  | 6.417  | 1.22  | 12.417 | 7.22  | 18.42 | 0.98  |      |       |
| 0.500                              | 0.61  | 6.500  | 1.22  | 12.500 | 5.51  | 18.50 | 1.22  |      |       |
| 0.583                              | 0.61  | 6.583  | 1.22  | 12.583 | 5.51  | 18.58 | 1.22  |      |       |
| 0.667                              | 0.61  | 6.667  | 1.22  | 12.667 | 5.26  | 18.67 | 0.98  |      |       |
| 0.750                              | 0.61  | 6.750  | 1.22  | 12.750 | 5.20  | 18.75 | 0.92  |      |       |
| 0.833                              | 0.61  | 6.833  | 1.22  | 12.833 | 4.59  | 18.83 | 0.92  |      |       |
| 0.917                              | 0.61  | 6.917  | 1.22  | 12.917 | 3.67  | 18.92 | 0.92  |      |       |
| 1.000                              | 0.61  | 7.000  | 1.22  | 13.000 | 3.67  | 19.00 | 0.92  |      |       |
| 1.083                              | 0.61  | 7.083  | 1.22  | 13.083 | 3.06  | 19.08 | 1.22  |      |       |
| 1.167                              | 0.61  | 7.167  | 1.22  | 13.167 | 3.06  | 19.17 | 1.22  |      |       |
| 1.250                              | 0.61  | 7.250  | 1.22  | 13.250 | 3.06  | 19.25 | 1.04  |      |       |
| 1.333                              | 0.61  | 7.333  | 1.22  | 13.333 | 3.06  | 19.33 | 0.92  |      |       |
| 1.417                              | 0.61  | 7.417  | 1.22  | 13.417 | 3.06  | 19.42 | 0.98  |      |       |
| 1.500                              | 0.61  | 7.500  | 1.22  | 13.500 | 3.06  | 19.50 | 1.22  |      |       |
| 1.583                              | 0.61  | 7.583  | 1.22  | 13.583 | 3.06  | 19.58 | 1.22  |      |       |
| 1.667                              | 0.61  | 7.667  | 1.22  | 13.667 | 3.06  | 19.67 | 0.98  |      |       |
| 1.750                              | 0.61  | 7.750  | 1.22  | 13.750 | 3.06  | 19.75 | 0.92  |      |       |
| 1.833                              | 0.61  | 7.833  | 1.22  | 13.833 | 3.06  | 19.83 | 1.04  |      |       |
| 1.917                              | 0.61  | 7.917  | 1.22  | 13.917 | 3.06  | 19.92 | 1.22  |      |       |
| 2.000                              | 0.61  | 8.000  | 1.22  | 14.000 | 3.06  | 20.00 | 1.22  |      |       |
| 2.083                              | 0.61  | 8.083  | 1.84  | 14.083 | 1.84  | 20.08 | 0.92  |      |       |
| 2.167                              | 0.61  | 8.167  | 1.84  | 14.167 | 1.84  | 20.17 | 0.92  |      |       |
| 2.250                              | 0.61  | 8.250  | 1.84  | 14.250 | 1.84  | 20.25 | 0.92  |      |       |
| 2.333                              | 0.61  | 8.333  | 1.84  | 14.333 | 1.84  | 20.33 | 0.92  |      |       |
| 2.417                              | 0.61  | 8.417  | 1.84  | 14.417 | 1.84  | 20.42 | 0.86  |      |       |
| 2.500                              | 0.61  | 8.500  | 1.84  | 14.500 | 1.84  | 20.50 | 0.61  |      |       |
| 2.583                              | 0.61  | 8.583  | 1.84  | 14.583 | 1.84  | 20.58 | 0.61  |      |       |
| 2.667                              | 0.61  | 8.667  | 1.84  | 14.667 | 1.84  | 20.67 | 0.86  |      |       |
| 2.750                              | 0.61  | 8.750  | 1.84  | 14.750 | 1.84  | 20.75 | 0.92  |      |       |
| 2.833                              | 0.61  | 8.833  | 1.84  | 14.833 | 1.84  | 20.83 | 0.92  |      |       |
| 2.917                              | 0.61  | 8.917  | 1.84  | 14.917 | 1.84  | 20.92 | 0.92  |      |       |
| 3.000                              | 0.61  | 9.000  | 1.84  | 15.000 | 1.53  | 21.00 | 0.92  |      |       |
| 3.083                              | 0.61  | 9.083  | 1.84  | 15.083 | 1.53  | 21.08 | 0.61  |      |       |
| 3.167                              | 0.61  | 9.167  | 1.84  | 15.167 | 1.53  | 21.17 | 0.61  |      |       |
| 3.250                              | 0.61  | 9.250  | 1.84  | 15.250 | 1.53  | 21.25 | 0.80  |      |       |
| 3.333                              | 0.61  | 9.333  | 1.84  | 15.333 | 1.53  | 21.33 | 0.92  |      |       |
| 3.417                              | 0.61  | 9.417  | 1.84  | 15.417 | 1.53  | 21.42 | 0.86  |      |       |
| 3.500                              | 0.61  | 9.500  | 1.84  | 15.500 | 1.53  | 21.50 | 0.61  |      |       |
| 3.583                              | 0.61  | 9.583  | 1.84  | 15.583 | 1.53  | 21.58 | 0.61  |      |       |
| 3.667                              | 0.61  | 9.667  | 1.84  | 15.667 | 1.53  | 21.67 | 0.86  |      |       |
| 3.750                              | 0.61  | 9.750  | 1.84  | 15.750 | 1.53  | 21.75 | 0.92  |      |       |
| 3.833                              | 0.61  | 9.833  | 1.84  | 15.833 | 1.53  | 21.83 | 0.80  |      |       |
| 3.917                              | 0.61  | 9.917  | 1.84  | 15.917 | 1.53  | 21.92 | 0.61  |      |       |
| 4.000                              | 0.61  | 10.000 | 1.84  | 16.000 | 1.53  | 22.00 | 0.61  |      |       |
| 4.083                              | 1.22  | 10.083 | 3.37  | 16.083 | 1.53  | 22.08 | 0.61  |      |       |
| 4.167                              | 1.22  | 10.167 | 3.37  | 16.167 | 1.53  | 22.17 | 0.61  |      |       |
| 4.250                              | 1.22  | 10.250 | 3.37  | 16.250 | 1.53  | 22.25 | 0.80  |      |       |
| 4.333                              | 1.22  | 10.333 | 3.37  | 16.333 | 1.53  | 22.33 | 0.92  |      |       |
| 4.417                              | 1.22  | 10.417 | 3.37  | 16.417 | 1.53  | 22.42 | 0.86  |      |       |
| 4.500                              | 1.22  | 10.500 | 3.37  | 16.500 | 1.53  | 22.50 | 0.61  |      |       |
| 4.583                              | 1.22  | 10.583 | 3.37  | 16.583 | 1.53  | 22.58 | 0.61  |      |       |

4.667 1.22 10.667 3.37 16.667 1.53 22.67 0.86  
4.750 1.22 10.750 3.37 16.750 1.53 22.75 0.92  
4.833 1.22 10.833 3.37 16.833 1.29 22.83 0.80  
4.917 1.22 10.917 3.37 16.917 0.92 22.92 0.61  
5.000 1.22 11.000 3.37 17.000 0.92 23.00 0.61  
5.083 1.22 11.083 4.59 17.083 0.92 23.08 0.61  
5.167 1.22 11.167 4.59 17.167 0.92 23.17 0.61  
5.250 1.22 11.250 5.88 17.250 1.10 23.25 0.61  
5.333 1.22 11.333 6.73 17.333 1.22 23.33 0.61  
5.417 1.22 11.417 8.63 17.417 1.16 23.42 0.67  
5.500 1.22 11.500 16.22 17.500 0.92 23.50 0.92  
5.583 1.22 11.583 16.22 17.583 0.92 23.58 0.92  
5.667 1.22 11.667 30.17 17.667 1.16 23.67 0.67  
5.750 1.22 11.750 33.66 17.750 1.22 23.75 0.61  
5.833 1.22 11.833 47.73 17.833 1.10 23.83 0.61  
5.917 1.22 11.917 68.85 17.917 0.92 23.92 0.61  
6.000 1.22 12.000 68.85 18.000 0.92 24.00 0.61

Unit Hyd Qpeak (cms)= 0.965

PEAK FLOW (cms)= 0.272 (i)  
TIME TO PEAK (hrs)= 12.250  
RUNOFF VOLUME (mm)= 18.031  
TOTAL RAINFALL (mm)= 61.200  
RUNOFF COEFFICIENT = 0.295

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB  
NASHYD ( 0102)  
ID= 1 DT= 6.0 min  
Area (ha)= 16.50  
Ia (mm)= 8.00  
U.H. Tp(hrs)= 0.47  
Curve Number (CN)= 71.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 6.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.100 0.61 6.100 1.22 12.100 12.24 18.10 0.92  
0.200 0.61 6.200 1.22 12.200 12.24 18.20 0.92  
0.300 0.61 6.300 1.22 12.300 7.65 18.30 0.92  
0.400 0.61 6.400 1.22 12.400 7.65 18.40 0.92  
0.500 0.61 6.500 1.22 12.500 5.51 18.50 1.22  
0.600 0.61 6.600 1.22 12.600 5.51 18.60 1.22  
0.700 0.61 6.700 1.22 12.700 5.20 18.70 0.92  
0.800 0.61 6.800 1.22 12.800 5.20 18.80 0.92  
0.900 0.61 6.900 1.22 12.900 3.67 18.90 0.92  
1.000 0.61 7.000 1.22 13.000 3.67 19.00 0.92  
1.100 0.61 7.100 1.22 13.100 3.06 19.10 1.22  
1.200 0.61 7.200 1.22 13.200 3.06 19.20 1.22  
1.300 0.61 7.300 1.22 13.300 3.06 19.30 0.92  
1.400 0.61 7.400 1.22 13.400 3.06 19.40 0.92  
1.500 0.61 7.500 1.22 13.500 3.06 19.50 1.22  
1.600 0.61 7.600 1.22 13.600 3.06 19.60 1.22  
1.700 0.61 7.700 1.22 13.700 3.06 19.70 0.92  
1.800 0.61 7.800 1.22 13.800 3.06 19.80 0.92  
1.900 0.61 7.900 1.22 13.900 3.06 19.90 1.22  
2.000 0.61 8.000 1.22 14.000 3.06 20.00 1.22  
2.100 0.61 8.100 1.84 14.100 1.84 20.10 0.92  
2.200 0.61 8.200 1.84 14.200 1.84 20.20 0.92  
2.300 0.61 8.300 1.84 14.300 1.84 20.30 0.92  
2.400 0.61 8.400 1.84 14.400 1.84 20.40 0.92  
2.500 0.61 8.500 1.84 14.500 1.84 20.50 0.61  
2.600 0.61 8.600 1.84 14.600 1.84 20.60 0.61  
2.700 0.61 8.700 1.84 14.700 1.84 20.70 0.92  
2.800 0.61 8.800 1.84 14.800 1.84 20.80 0.92  
2.900 0.61 8.900 1.84 14.900 1.84 20.90 0.92  
3.000 0.61 9.000 1.84 15.000 1.84 21.00 0.92  
3.100 0.61 9.100 1.84 15.100 1.53 21.10 0.61  
3.200 0.61 9.200 1.84 15.200 1.53 21.20 0.61  
3.300 0.61 9.300 1.84 15.300 1.53 21.30 0.92  
3.400 0.61 9.400 1.84 15.400 1.53 21.40 0.92  
3.500 0.61 9.500 1.84 15.500 1.53 21.50 0.61  
3.600 0.61 9.600 1.84 15.600 1.53 21.60 0.61  
3.700 0.61 9.700 1.84 15.700 1.53 21.70 0.92  
3.800 0.61 9.800 1.84 15.800 1.53 21.80 0.92  
3.900 0.61 9.900 1.84 15.900 1.53 21.90 0.61  
4.000 0.61 10.000 1.84 16.000 1.53 22.00 0.61  
4.100 1.22 10.100 3.37 16.100 1.53 22.10 0.61  
4.200 1.22 10.200 3.37 16.200 1.53 22.20 0.61  
4.300 1.22 10.300 3.37 16.300 1.53 22.30 0.92  
4.400 1.22 10.400 3.37 16.400 1.53 22.40 0.92  
4.500 1.22 10.500 3.37 16.500 1.53 22.50 0.61  
4.600 1.22 10.600 3.37 16.600 1.53 22.60 0.61  
4.700 1.22 10.700 3.37 16.700 1.53 22.70 0.92  
4.800 1.22 10.800 3.37 16.800 1.53 22.80 0.92  
4.900 1.22 10.900 3.37 16.900 0.92 22.90 0.61  
5.000 1.22 11.000 3.37 17.000 0.92 23.00 0.61  
5.100 1.22 11.100 4.59 17.100 0.92 23.10 0.61  
5.200 1.22 11.200 4.59 17.200 0.92 23.20 0.61  
5.300 1.22 11.300 6.73 17.300 1.22 23.30 0.61  
5.400 1.22 11.400 6.73 17.400 1.22 23.40 0.61  
5.500 1.22 11.500 16.22 17.500 0.92 23.50 0.92  
5.600 1.22 11.600 16.22 17.600 0.92 23.60 0.92  
5.700 1.22 11.700 33.66 17.700 1.22 23.70 0.61  
5.800 1.22 11.800 33.66 17.800 1.22 23.80 0.61  
5.900 1.22 11.900 68.85 17.900 0.92 23.90 0.61  
6.000 1.22 12.000 68.85 18.000 0.92 24.00 0.61

Unit Hyd Qpeak (cms)= 1.341

PEAK FLOW (cms)= 0.401 (i)  
TIME TO PEAK (hrs)= 12.400  
RUNOFF VOLUME (mm)= 18.031  
TOTAL RAINFALL (mm)= 61.200  
RUNOFF COEFFICIENT = 0.295

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0010)  
1 + 2 = 3  
ID1= 1 ( 0101): 9.85 0.272 12.25 18.03  
+ ID2= 2 ( 0102): 16.50 0.401 12.40 18.03  
ID = 3 ( 0010): 26.35 0.669 12.33 18.03  
NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U A A A A L  
V V I SS U U A A L  
V V I SSSS UUUU A A LLLL

000 TTTT TTTT H H Y Y M M 000 TM  
0 0 T T H H Y Y M M 0 0  
0 0 T T H H Y Y M M 0 0  
000 T T H H Y Y M M 000

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\*\*\*\*\* D E T A I L E D O U T P U T \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde909959\eb8f0ce7-91f1-4084-b436-fa9ac9bf8ca3\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde909959\eb8f0ce7-91f1-4084-b436-fa9ac9bf8ca3\sc

DATE: 09/21/2025 TIME: 02:51:19

USER:

COMMENTS:

\*\* SIMULATION : 50yr 24hr 12min SCS Type II (\*\*

MASS STORM  
Filename: C:\Users\hfaulkner\AppData\Local\Temp\c945e6a9-f58e-4cf9-8935-69436263fb31\07e494e7  
Ptotal=122.10 mm  
Comments: 24-hour SCS Type-II Mass Storm Curve

Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.00 1.22 6.00 2.44 12.00 24.42 18.00 1.83  
0.20 1.22 6.20 2.44 12.20 15.26 18.20 1.83  
0.40 1.22 6.40 2.44 12.40 10.99 18.40 2.44  
0.60 1.22 6.60 2.44 12.60 10.38 18.60 1.83  
0.80 1.22 6.80 2.44 12.80 7.33 18.80 1.83  
1.00 1.22 7.00 2.44 13.00 6.10 19.00 2.44  
1.20 1.22 7.20 2.44 13.20 6.10 19.20 1.83  
1.40 1.22 7.40 2.44 13.40 6.10 19.40 2.44  
1.60 1.22 7.60 2.44 13.60 6.10 19.60 1.83  
1.80 1.22 7.80 2.44 13.80 6.11 19.80 2.44  
2.00 1.22 8.00 3.66 14.00 3.66 20.00 1.83  
2.20 1.22 8.20 3.66 14.20 3.66 20.20 1.83  
2.40 1.22 8.40 3.66 14.40 3.66 20.40 1.22  
2.60 1.22 8.60 3.66 14.60 3.66 20.60 1.83  
2.80 1.22 8.80 3.66 14.80 3.66 20.80 1.83  
3.00 1.22 9.00 3.66 15.00 3.05 21.00 1.22  
3.20 1.22 9.20 3.66 15.20 3.05 21.20 1.83  
3.40 1.22 9.40 3.66 15.40 3.05 21.40 1.22  
3.60 1.22 9.60 3.66 15.60 3.05 21.60 1.83  
3.80 1.22 9.80 3.66 15.80 3.05 21.80 1.22  
4.00 2.44 10.00 6.72 16.00 3.05 22.00 1.22  
4.20 2.44 10.20 6.72 16.20 3.05 22.20 1.83  
4.40 2.44 10.40 6.72 16.40 3.05 22.40 1.22  
4.60 2.44 10.60 6.72 16.60 3.05 22.60 1.83  
4.80 2.44 10.80 6.72 16.80 1.83 22.80 1.22  
5.00 2.44 11.00 9.16 17.00 1.83 23.00 1.22  
5.20 2.44 11.20 13.43 17.20 2.44 23.20 1.22  
5.40 2.44 11.40 32.36 17.40 1.83 23.40 1.83  
5.60 2.44 11.60 67.15 17.60 2.44 23.60 1.22  
5.80 2.44 11.80 137.36 17.80 1.83 23.80 1.22

CALIB  
NASHYD ( 0101)  
ID= 1 DT= 5.0 min  
Area (ha)= 9.85  
Ia (mm)= 8.00  
U.H. Tp(hrs)= 0.39  
Curve Number (CN)= 71.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.083 1.22 6.083 2.44 12.083 24.43 18.00 1.83  
0.167 1.22 6.167 2.44 12.167 24.42 18.17 1.83  
0.250 1.22 6.250 2.44 12.250 18.93 18.25 1.83  
0.333 1.22 6.333 2.44 12.333 15.26 18.33 1.83  
0.417 1.22 6.417 2.44 12.417 14.41 18.42 1.95  
0.500 1.22 6.500 2.44 12.500 10.99 18.50 2.44  
0.583 1.22 6.583 2.44 12.583 10.99 18.58 2.44  
0.667 1.22 6.667 2.44 12.667 10.50 18.67 1.95  
0.750 1.22 6.750 2.44 12.750 10.38 18.75 1.83  
0.833 1.22 6.833 2.44 12.833 9.16 18.83 1.83  
0.917 1.22 6.917 2.44 12.917 7.33 18.92 1.83  
1.000 1.22 7.000 2.44 13.000 7.33 19.00 1.83  
1.083 1.22 7.083 2.44 13.083 6.11 19.08 2.44  
1.167 1.22 7.167 2.44 13.167 6.10 19.17 2.44  
1.250 1.22 7.250 2.44 13.250 6.10 19.25 2.08  
1.333 1.22 7.333 2.44 13.333 6.10 19.33 1.83  
1.417 1.22 7.417 2.44 13.417 6.10 19.42 1.95  
1.500 1.22 7.500 2.44 13.500 6.10 19.50 2.44  
1.583 1.22 7.583 2.44 13.583 6.10 19.58 2.44  
1.667 1.22 7.667 2.44 13.667 6.10 19.67 1.95  
1.750 1.22 7.750 2.44 13.750 6.10 19.75 1.83  
1.833 1.22 7.833 2.44 13.833 6.10 19.83 2.08  
1.917 1.22 7.917 2.44 13.917 6.11 19.92 2.44  
2.000 1.22 8.000 2.44 14.000 6.11 20.00 2.44  
2.083 1.22 8.083 3.66 14.083 3.66 20.08 1.83  
2.167 1.22 8.167 3.66 14.167 3.66 20.17 1.83  
2.250 1.22 8.250 3.66 14.250 3.66 20.25 1.83  
2.333 1.22 8.333 3.66 14.333 3.66 20.33 1.83  
2.417 1.22 8.417 3.66 14.417 3.66 20.42 1.71  
2.500 1.22 8.500 3.66 14.500 3.66 20.50 1.22  
2.583 1.22 8.583 3.66 14.583 3.66 20.58 1.22

2.667 1.22 | 8.667 3.66 | 14.667 3.66 | 20.67 1.71  
2.750 1.22 | 8.750 3.66 | 14.750 3.66 | 20.75 1.83  
2.833 1.22 | 8.833 3.66 | 14.833 3.66 | 20.83 1.83  
2.917 1.22 | 8.917 3.66 | 14.917 3.66 | 20.92 1.83  
3.000 1.22 | 9.000 3.66 | 15.000 3.66 | 21.00 1.83  
3.083 1.22 | 9.083 3.66 | 15.083 3.05 | 21.08 1.22  
3.167 1.22 | 9.167 3.66 | 15.167 3.05 | 21.17 1.22  
3.250 1.22 | 9.250 3.66 | 15.250 3.05 | 21.25 1.59  
3.333 1.22 | 9.333 3.66 | 15.333 3.05 | 21.33 1.83  
3.417 1.22 | 9.417 3.66 | 15.417 3.05 | 21.42 1.71  
3.500 1.22 | 9.500 3.66 | 15.500 3.05 | 21.50 1.22  
3.583 1.22 | 9.583 3.66 | 15.583 3.05 | 21.58 1.22  
3.667 1.22 | 9.667 3.66 | 15.667 3.05 | 21.67 1.71  
3.750 1.22 | 9.750 3.66 | 15.750 3.05 | 21.75 1.83  
3.833 1.22 | 9.833 3.66 | 15.833 3.05 | 21.83 1.59  
3.917 1.22 | 9.917 3.66 | 15.917 3.05 | 21.92 1.22  
4.000 1.22 | 10.000 3.66 | 16.000 3.05 | 22.00 1.22  
4.083 2.44 | 10.083 6.72 | 16.083 3.05 | 22.08 1.22  
4.167 2.44 | 10.167 6.72 | 16.167 3.05 | 22.17 1.22  
4.250 2.44 | 10.250 6.72 | 16.250 3.05 | 22.25 1.59  
4.333 2.44 | 10.333 6.72 | 16.333 3.05 | 22.33 1.83  
4.417 2.44 | 10.417 6.72 | 16.417 3.05 | 22.42 1.71  
4.500 2.44 | 10.500 6.72 | 16.500 3.05 | 22.50 1.22  
4.583 2.44 | 10.583 6.72 | 16.583 3.05 | 22.58 1.22  
4.667 2.44 | 10.667 6.72 | 16.667 3.05 | 22.67 1.71  
4.750 2.44 | 10.750 6.72 | 16.750 3.05 | 22.75 1.83  
4.833 2.44 | 10.833 6.72 | 16.833 2.56 | 22.83 1.59  
4.917 2.44 | 10.917 6.72 | 16.917 1.83 | 22.92 1.22  
5.000 2.44 | 11.000 6.72 | 17.000 1.83 | 23.00 1.22  
5.083 2.44 | 11.083 9.16 | 17.083 1.83 | 23.08 1.22  
5.167 2.44 | 11.167 9.16 | 17.167 1.83 | 23.17 1.22  
5.250 2.44 | 11.250 11.72 | 17.250 2.20 | 23.25 1.22  
5.333 2.44 | 11.333 13.43 | 17.333 2.44 | 23.33 1.22  
5.417 2.44 | 11.417 17.21 | 17.417 2.32 | 23.42 1.34  
5.500 2.44 | 11.500 32.36 | 17.500 1.83 | 23.50 1.83  
5.583 2.44 | 11.583 32.36 | 17.583 1.83 | 23.58 1.83  
5.667 2.44 | 11.667 60.19 | 17.667 2.32 | 23.67 1.34  
5.750 2.44 | 11.750 67.15 | 17.750 2.44 | 23.75 1.22  
5.833 2.44 | 11.833 95.23 | 17.833 2.20 | 23.83 1.22  
5.917 2.44 | 11.917 137.36 | 17.917 1.83 | 23.92 1.22  
6.000 2.44 | 12.000 137.36 | 18.000 1.83 | 24.00 1.22

Unit Hyd Qpeak (cms)= 0.965

PEAK FLOW (cms)= 0.945 (i)  
TIME TO PEAK (hrs)= 12.250  
RUNOFF VOLUME (mm)= 59.753  
TOTAL RAINFALL (mm)= 122.100  
RUNOFF COEFFICIENT = 0.489

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

PEAK FLOW (cms)= 1.389 (i)  
TIME TO PEAK (hrs)= 12.300  
RUNOFF VOLUME (mm)= 59.753  
TOTAL RAINFALL (mm)= 122.100  
RUNOFF COEFFICIENT = 0.489

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0010) |  
1 + 2 = 3 |  
ID1= 1 ( 0101): 9.85 0.945 12.25 59.75  
+ ID2= 2 ( 0102): 16.50 1.389 12.30 59.75  
ID = 3 ( 0010): 26.35 2.311 12.33 59.75

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U A A A A L  
V V I SS U U A A L  
V V I SSSSS UUUU A A LLLL  
000 TTTT TTTT H H Y Y M M 000 TM  
0 0 T T H H Y Y M M 0 0  
0 0 T T H H Y Y M M 0 0  
000 T T H H Y Y M M 000  
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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\vo1n.dat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\WH5\77c50d1d-6a10-4f32-be40-83fde9009059\71b7bdf3-4266-4c14-bb34-d6f6add1f46\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\WH5\77c50d1d-6a10-4f32-be40-83fde9009059\71b7bdf3-4266-4c14-bb34-d6f6add1f46\sc

DATE: 09/21/2025

TIME: 02:51:18

USER:

COMMENTS:

\*\* SIMULATION = 5yr 24hr 12min SCS Type II (M \*\*

MASS STORM | Filename: C:\Users\hfaulkner\AppData\Local\Temp\c045e6a9-f58e-4cf9-8935-69436263fb31\b8516e43  
Ptotal= 80.70 mm | Comments: 24-hour SCS Type-II Mass Storm Curve

Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.00        | 0.81          | 6.00        | 1.61          | 12.00       | 16.14         | 18.00       | 1.21          |
| 0.20        | 0.81          | 6.20        | 1.61          | 12.20       | 10.09         | 18.20       | 1.21          |
| 0.40        | 0.81          | 6.40        | 1.61          | 12.40       | 7.26          | 18.40       | 1.61          |
| 0.60        | 0.81          | 6.60        | 1.61          | 12.60       | 6.86          | 18.60       | 1.21          |
| 0.80        | 0.81          | 6.80        | 1.61          | 12.80       | 4.84          | 18.80       | 1.21          |
| 1.00        | 0.81          | 7.00        | 1.61          | 13.00       | 4.03          | 19.00       | 1.61          |
| 1.20        | 0.81          | 7.20        | 1.61          | 13.20       | 4.03          | 19.20       | 1.21          |
| 1.40        | 0.81          | 7.40        | 1.61          | 13.40       | 4.03          | 19.40       | 1.61          |
| 1.60        | 0.81          | 7.60        | 1.61          | 13.60       | 4.03          | 19.60       | 1.21          |
| 1.80        | 0.81          | 7.80        | 1.61          | 13.80       | 4.04          | 19.80       | 1.61          |
| 2.00        | 0.81          | 8.00        | 2.42          | 14.00       | 2.42          | 20.00       | 1.21          |
| 2.20        | 0.81          | 8.20        | 2.42          | 14.20       | 2.42          | 20.20       | 1.21          |
| 2.40        | 0.81          | 8.40        | 2.42          | 14.40       | 2.42          | 20.40       | 0.81          |
| 2.60        | 0.81          | 8.60        | 2.42          | 14.60       | 2.42          | 20.60       | 1.21          |
| 2.80        | 0.81          | 8.80        | 2.42          | 14.80       | 2.42          | 20.80       | 1.21          |
| 3.00        | 0.81          | 9.00        | 2.42          | 15.00       | 2.02          | 21.00       | 0.81          |
| 3.20        | 0.81          | 9.20        | 2.42          | 15.20       | 2.02          | 21.20       | 1.21          |
| 3.40        | 0.81          | 9.40        | 2.42          | 15.40       | 2.02          | 21.40       | 0.81          |
| 3.60        | 0.81          | 9.60        | 2.42          | 15.60       | 2.02          | 21.60       | 1.21          |
| 3.80        | 0.81          | 9.80        | 2.42          | 15.80       | 2.02          | 21.80       | 0.81          |
| 4.00        | 1.61          | 10.00       | 4.44          | 16.00       | 2.02          | 22.00       | 0.81          |
| 4.20        | 1.61          | 10.20       | 4.44          | 16.20       | 2.02          | 22.20       | 1.21          |
| 4.40        | 1.61          | 10.40       | 4.44          | 16.40       | 2.02          | 22.40       | 0.81          |
| 4.60        | 1.61          | 10.60       | 4.44          | 16.60       | 2.02          | 22.60       | 1.21          |
| 4.80        | 1.61          | 10.80       | 4.44          | 16.80       | 1.21          | 22.80       | 0.81          |
| 5.00        | 1.61          | 11.00       | 6.05          | 17.00       | 1.21          | 23.00       | 0.81          |
| 5.20        | 1.61          | 11.20       | 8.88          | 17.20       | 1.61          | 23.20       | 0.81          |
| 5.40        | 1.61          | 11.40       | 21.39         | 17.40       | 1.21          | 23.40       | 1.21          |
| 5.60        | 1.61          | 11.60       | 44.39         | 17.60       | 1.61          | 23.60       | 0.81          |
| 5.80        | 1.61          | 11.80       | 90.79         | 17.80       | 1.21          | 23.80       | 0.81          |

CALIB |  
NASHYD ( 0101) | Area (ha)= 9.85 Curve Number (CN)= 71.0  
ID= 1 DT= 5.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.39

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.083       | 0.81          | 6.083       | 1.61          | 12.083      | 16.15         | 18.08       | 1.21          |
| 0.167       | 0.81          | 6.167       | 1.61          | 12.167      | 16.14         | 18.17       | 1.21          |
| 0.250       | 0.81          | 6.250       | 1.61          | 12.250      | 12.51         | 18.25       | 1.21          |
| 0.333       | 0.81          | 6.333       | 1.61          | 12.333      | 10.09         | 18.33       | 1.21          |
| 0.417       | 0.81          | 6.417       | 1.61          | 12.417      | 9.52          | 18.42       | 1.29          |
| 0.500       | 0.81          | 6.500       | 1.61          | 12.500      | 7.26          | 18.50       | 1.61          |
| 0.583       | 0.81          | 6.583       | 1.61          | 12.583      | 7.26          | 18.58       | 1.61          |

Unit Hyd Qpeak (cms)= 1.341

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 0.667 | 0.81 | 6.667  | 1.61  | 12.667 | 6.94 | 18.67 | 1.29 |
| 0.750 | 0.81 | 6.750  | 1.61  | 12.750 | 6.86 | 18.75 | 1.21 |
| 0.833 | 0.81 | 6.833  | 1.61  | 12.833 | 6.05 | 18.83 | 1.21 |
| 0.917 | 0.81 | 6.917  | 1.61  | 12.917 | 4.84 | 18.92 | 1.21 |
| 1.000 | 0.81 | 7.000  | 1.61  | 13.000 | 4.84 | 19.00 | 1.21 |
| 1.083 | 0.81 | 7.083  | 1.61  | 13.083 | 4.04 | 19.08 | 1.61 |
| 1.167 | 0.81 | 7.167  | 1.61  | 13.167 | 4.03 | 19.17 | 1.61 |
| 1.250 | 0.81 | 7.250  | 1.61  | 13.250 | 4.03 | 19.25 | 1.37 |
| 1.333 | 0.81 | 7.333  | 1.61  | 13.333 | 4.03 | 19.33 | 1.21 |
| 1.417 | 0.81 | 7.417  | 1.61  | 13.417 | 4.03 | 19.42 | 1.29 |
| 1.500 | 0.81 | 7.500  | 1.61  | 13.500 | 4.03 | 19.50 | 1.61 |
| 1.583 | 0.81 | 7.583  | 1.61  | 13.583 | 4.03 | 19.58 | 1.61 |
| 1.667 | 0.81 | 7.667  | 1.61  | 13.667 | 4.03 | 19.67 | 1.29 |
| 1.750 | 0.81 | 7.750  | 1.61  | 13.750 | 4.03 | 19.75 | 1.21 |
| 1.833 | 0.81 | 7.833  | 1.61  | 13.833 | 4.03 | 19.83 | 1.37 |
| 1.917 | 0.81 | 7.917  | 1.61  | 13.917 | 4.04 | 19.92 | 1.61 |
| 2.000 | 0.81 | 8.000  | 1.61  | 14.000 | 4.04 | 20.00 | 1.61 |
| 2.083 | 0.81 | 8.083  | 2.42  | 14.083 | 2.42 | 20.08 | 1.21 |
| 2.167 | 0.81 | 8.167  | 2.42  | 14.167 | 2.42 | 20.17 | 1.21 |
| 2.250 | 0.81 | 8.250  | 2.42  | 14.250 | 2.42 | 20.25 | 1.21 |
| 2.333 | 0.81 | 8.333  | 2.42  | 14.333 | 2.42 | 20.33 | 1.21 |
| 2.417 | 0.81 | 8.417  | 2.42  | 14.417 | 2.42 | 20.42 | 1.13 |
| 2.500 | 0.81 | 8.500  | 2.42  | 14.500 | 2.42 | 20.50 | 0.81 |
| 2.583 | 0.81 | 8.583  | 2.42  | 14.583 | 2.42 | 20.58 | 0.81 |
| 2.667 | 0.81 | 8.667  | 2.42  | 14.667 | 2.42 | 20.67 | 1.13 |
| 2.750 | 0.81 | 8.750  | 2.42  | 14.750 | 2.42 | 20.75 | 1.21 |
| 2.833 | 0.81 | 8.833  | 2.42  | 14.833 | 2.42 | 20.83 | 1.21 |
| 2.917 | 0.81 | 8.917  | 2.42  | 14.917 | 2.42 | 20.92 | 1.21 |
| 3.000 | 0.81 | 9.000  | 2.42  | 15.000 | 2.42 | 21.00 | 1.21 |
| 3.083 | 0.81 | 9.083  | 2.42  | 15.083 | 2.02 | 21.08 | 0.81 |
| 3.167 | 0.81 | 9.167  | 2.42  | 15.167 | 2.02 | 21.17 | 0.81 |
| 3.250 | 0.81 | 9.250  | 2.42  | 15.250 | 2.02 | 21.25 | 1.05 |
| 3.333 | 0.81 | 9.333  | 2.42  | 15.333 | 2.02 | 21.33 | 1.21 |
| 3.417 | 0.81 | 9.417  | 2.42  | 15.417 | 2.02 | 21.42 | 1.13 |
| 3.500 | 0.81 | 9.500  | 2.42  | 15.500 | 2.02 | 21.50 | 0.81 |
| 3.583 | 0.81 | 9.583  | 2.42  | 15.583 | 2.02 | 21.58 | 0.81 |
| 3.667 | 0.81 | 9.667  | 2.42  | 15.667 | 2.02 | 21.67 | 1.13 |
| 3.750 | 0.81 | 9.750  | 2.42  | 15.750 | 2.02 | 21.75 | 1.21 |
| 3.833 | 0.81 | 9.833  | 2.42  | 15.833 | 2.02 | 21.83 | 1.05 |
| 3.917 | 0.81 | 9.917  | 2.42  | 15.917 | 2.02 | 21.92 | 0.81 |
| 4.000 | 0.81 | 10.000 | 2.42  | 16.000 | 2.02 | 22.00 | 0.81 |
| 4.083 | 1.61 | 10.083 | 4.44  | 16.083 | 2.02 | 22.08 | 0.81 |
| 4.167 | 1.61 | 10.167 | 4.44  | 16.167 | 2.02 | 22.17 | 0.81 |
| 4.250 | 1.61 | 10.250 | 4.44  | 16.250 | 2.02 | 22.25 | 1.05 |
| 4.333 | 1.61 | 10.333 | 4.44  | 16.333 | 2.02 | 22.33 | 1.21 |
| 4.417 | 1.61 | 10.417 | 4.44  | 16.417 | 2.02 | 22.42 | 1.13 |
| 4.500 | 1.61 | 10.500 | 4.44  | 16.500 | 2.02 | 22.50 | 0.81 |
| 4.583 | 1.61 | 10.583 | 4.44  | 16.583 | 2.02 | 22.58 | 0.81 |
| 4.667 | 1.61 | 10.667 | 4.44  | 16.667 | 2.02 | 22.67 | 1.13 |
| 4.750 | 1.61 | 10.750 | 4.44  | 16.750 | 2.02 | 22.75 | 1.21 |
| 4.833 | 1.61 | 10.833 | 4.44  | 16.833 | 1.69 | 22.83 | 1.05 |
| 4.917 | 1.61 | 10.917 | 4.44  | 16.917 | 1.21 | 22.92 | 0.81 |
| 5.000 | 1.61 | 11.000 | 4.44  | 17.000 | 1.21 | 23.00 | 0.81 |
| 5.083 | 1.61 | 11.083 | 6.05  | 17.083 | 1.21 | 23.08 | 0.81 |
| 5.167 | 1.61 | 11.167 | 6.05  | 17.167 | 1.21 | 23.17 | 0.81 |
| 5.250 | 1.61 | 11.250 | 7.75  | 17.250 | 1.45 | 23.25 | 0.81 |
| 5.333 | 1.61 | 11.333 | 8.88  | 17.333 | 1.61 | 23.33 | 0.81 |
| 5.417 | 1.61 | 11.417 | 11.38 | 17.417 | 1.53 | 23.42 | 0.89 |
| 5.500 | 1.61 | 11.500 | 21.39 | 17.500 | 1.21 | 23.50 | 1.21 |
| 5.583 | 1.61 | 11.583 | 21.39 | 17.583 | 1.21 | 23.58 | 1.21 |
| 5.667 | 1.61 | 11.667 | 39.78 | 17.667 | 1.53 | 23.67 | 0.89 |
| 5.750 | 1.61 | 11.750 | 44.39 | 17.750 | 1.61 | 23.75 | 0.81 |
| 5.833 | 1.61 | 11.833 | 62.94 | 17.833 | 1.45 | 23.83 | 0.81 |
| 5.917 | 1.61 | 11.917 | 90.79 | 17.917 | 1.21 | 23.92 | 0.81 |
| 6.000 | 1.61 | 12.000 | 90.79 | 18.000 | 1.21 | 24.00 | 0.81 |

Unit Hyd Qpeak (cms)= 0.965

PEAK FLOW (cms)= 0.463 (i)  
TIME TO PEAK (hrs)= 12.250  
RUNOFF VOLUME (mm)= 29.950  
TOTAL RAINFALL (mm)= 80.700  
RUNOFF COEFFICIENT = 0.371

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 3.900 | 0.81 | 9.900  | 2.42  | 15.900 | 2.02 | 21.90 | 0.81 |
| 4.000 | 0.81 | 10.000 | 2.42  | 16.000 | 2.02 | 22.00 | 0.81 |
| 4.100 | 1.61 | 10.100 | 4.44  | 16.100 | 2.02 | 22.10 | 0.81 |
| 4.200 | 1.61 | 10.200 | 4.44  | 16.200 | 2.02 | 22.20 | 0.81 |
| 4.300 | 1.61 | 10.300 | 4.44  | 16.300 | 2.02 | 22.30 | 1.21 |
| 4.400 | 1.61 | 10.400 | 4.44  | 16.400 | 2.02 | 22.40 | 1.21 |
| 4.500 | 1.61 | 10.500 | 4.44  | 16.500 | 2.02 | 22.50 | 0.81 |
| 4.600 | 1.61 | 10.600 | 4.44  | 16.600 | 2.02 | 22.60 | 0.81 |
| 4.700 | 1.61 | 10.700 | 4.44  | 16.700 | 2.02 | 22.70 | 1.21 |
| 4.800 | 1.61 | 10.800 | 4.44  | 16.800 | 2.02 | 22.80 | 1.21 |
| 4.900 | 1.61 | 10.900 | 4.44  | 16.900 | 1.21 | 22.90 | 0.81 |
| 5.000 | 1.61 | 11.000 | 4.44  | 17.000 | 1.21 | 23.00 | 0.81 |
| 5.100 | 1.61 | 11.100 | 6.05  | 17.100 | 1.21 | 23.10 | 0.81 |
| 5.200 | 1.61 | 11.200 | 6.05  | 17.200 | 1.21 | 23.20 | 0.81 |
| 5.300 | 1.61 | 11.300 | 8.88  | 17.300 | 1.61 | 23.30 | 0.81 |
| 5.400 | 1.61 | 11.400 | 8.88  | 17.400 | 1.61 | 23.40 | 0.81 |
| 5.500 | 1.61 | 11.500 | 21.39 | 17.500 | 1.21 | 23.50 | 1.21 |
| 5.600 | 1.61 | 11.600 | 21.39 | 17.600 | 1.21 | 23.60 | 1.21 |
| 5.700 | 1.61 | 11.700 | 44.39 | 17.700 | 1.61 | 23.70 | 0.81 |
| 5.800 | 1.61 | 11.800 | 44.39 | 17.800 | 1.61 | 23.80 | 0.81 |
| 5.900 | 1.61 | 11.900 | 90.79 | 17.900 | 1.21 | 23.90 | 0.81 |
| 6.000 | 1.61 | 12.000 | 90.78 | 18.000 | 1.21 | 24.00 | 0.81 |

Unit Hyd Qpeak (cms)= 1.341

PEAK FLOW (cms)= 0.680 (i)  
TIME TO PEAK (hrs)= 12.400  
RUNOFF VOLUME (mm)= 29.950  
TOTAL RAINFALL (mm)= 80.700  
RUNOFF COEFFICIENT = 0.371

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0010 )   | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
|--------------------|-----------|-------------|-------------|-----------|
| 1 + 2 = 3          |           |             |             |           |
| ID1= 1 ( 0101 ):   | 9.85      | 0.463       | 12.25       | 29.95     |
| + ID2= 2 ( 0102 ): | 16.50     | 0.680       | 12.40       | 29.95     |
| ID = 3 ( 0010 ):   | 26.35     | 1.136       | 12.33       | 29.95     |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |                    |                           |  |
|-------------------|--------------------|---------------------------|--|
| CALIB             |                    |                           |  |
| NASHYD ( 0102 )   | Area (ha)= 16.50   | Curve Number (CN)= 71.0   |  |
| ID= 1 DT= 6.0 min | Ia (mm)= 8.00      | # of Linear Res.(N)= 3.00 |  |
|                   | U.H. Tp(hrs)= 0.47 |                           |  |

NOTE: RAINFALL WAS TRANSFORMED TO 6.0 MIN. TIME STEP.

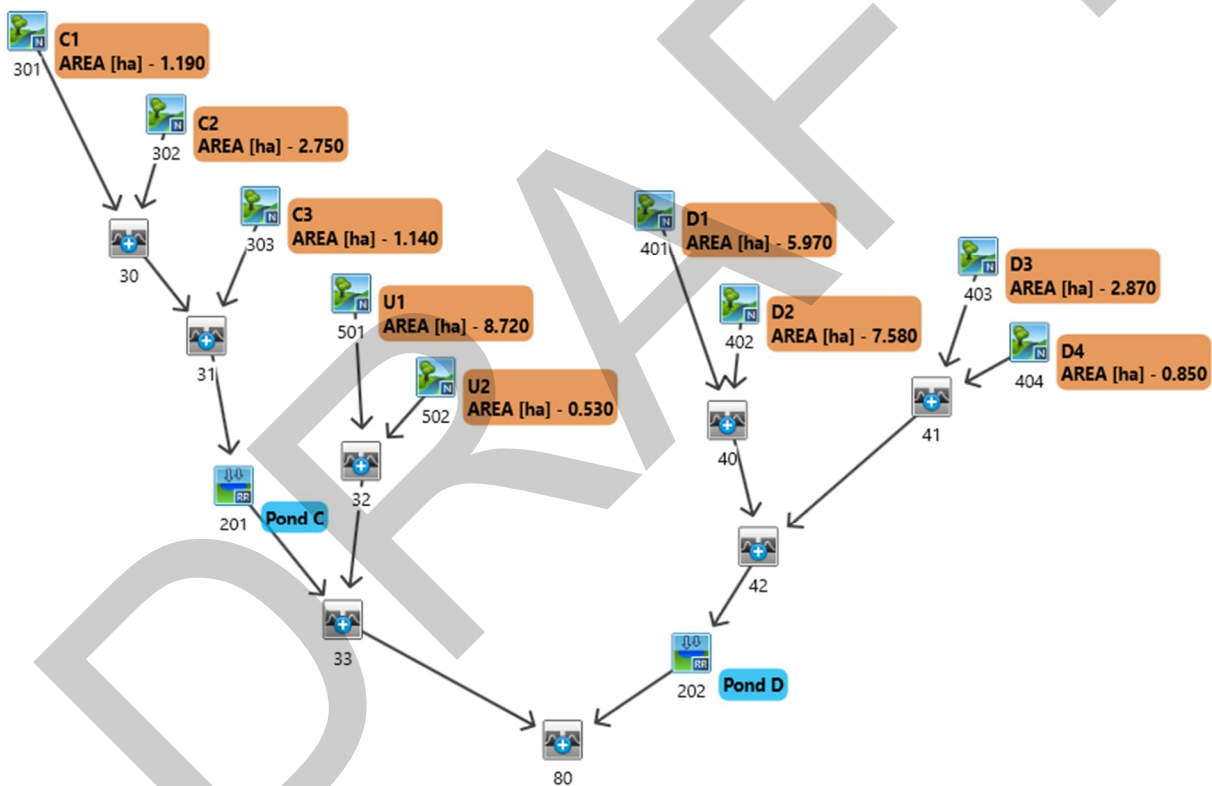
| TIME hrs | RAIN mm/hr | TIME hrs | RAIN mm/hr | TIME hrs | RAIN mm/hr | TIME hrs | RAIN mm/hr |
|----------|------------|----------|------------|----------|------------|----------|------------|
| 0.100    | 0.81       | 6.100    | 1.61       | 12.100   | 16.14      | 18.10    | 1.21       |
| 0.200    | 0.81       | 6.200    | 1.61       | 12.200   | 16.14      | 18.20    | 1.21       |
| 0.300    | 0.81       | 6.300    | 1.61       | 12.300   | 10.09      | 18.30    | 1.21       |
| 0.400    | 0.81       | 6.400    | 1.61       | 12.400   | 10.09      | 18.40    | 1.21       |
| 0.500    | 0.81       | 6.500    | 1.61       | 12.500   | 7.26       | 18.50    | 1.61       |
| 0.600    | 0.81       | 6.600    | 1.61       | 12.600   | 7.26       | 18.60    | 1.61       |
| 0.700    | 0.81       | 6.700    | 1.61       | 12.700   | 6.86       | 18.70    | 1.21       |
| 0.800    | 0.81       | 6.800    | 1.61       | 12.800   | 6.86       | 18.80    | 1.21       |
| 0.900    | 0.81       | 6.900    | 1.61       | 12.900   | 4.84       | 18.90    | 1.21       |
| 1.000    | 0.81       | 7.000    | 1.61       | 13.000   | 4.84       | 19.00    | 1.21       |
| 1.100    | 0.81       | 7.100    | 1.61       | 13.100   | 4.03       | 19.10    | 1.61       |
| 1.200    | 0.81       | 7.200    | 1.61       | 13.200   | 4.04       | 19.20    | 1.61       |
| 1.300    | 0.81       | 7.300    | 1.61       | 13.300   | 4.03       | 19.30    | 1.21       |
| 1.400    | 0.81       | 7.400    | 1.61       | 13.400   | 4.04       | 19.40    | 1.21       |
| 1.500    | 0.81       | 7.500    | 1.61       | 13.500   | 4.03       | 19.50    | 1.61       |
| 1.600    | 0.81       | 7.600    | 1.61       | 13.600   | 4.04       | 19.60    | 1.61       |
| 1.700    | 0.81       | 7.700    | 1.61       | 13.700   | 4.03       | 19.70    | 1.21       |
| 1.800    | 0.81       | 7.800    | 1.61       | 13.800   | 4.04       | 19.80    | 1.21       |
| 1.900    | 0.81       | 7.900    | 1.61       | 13.900   | 4.04       | 19.90    | 1.61       |
| 2.000    | 0.81       | 8.000    | 1.61       | 14.000   | 4.03       | 20.00    | 1.61       |
| 2.100    | 0.81       | 8.100    | 2.42       | 14.100   | 2.42       | 20.10    | 1.21       |
| 2.200    | 0.81       | 8.200    | 2.42       | 14.200   | 2.42       | 20.20    | 1.21       |
| 2.300    | 0.81       | 8.300    | 2.42       | 14.300   | 2.42       | 20.30    | 1.21       |
| 2.400    | 0.81       | 8.400    | 2.42       | 14.400   | 2.42       | 20.40    | 1.21       |
| 2.500    | 0.81       | 8.500    | 2.42       | 14.500   | 2.42       | 20.50    | 0.81       |
| 2.600    | 0.81       | 8.600    | 2.42       | 14.600   | 2.42       | 20.60    | 0.81       |
| 2.700    | 0.81       | 8.700    | 2.42       | 14.700   | 2.42       | 20.70    | 1.21       |
| 2.800    | 0.81       | 8.800    | 2.42       | 14.800   | 2.42       | 20.80    | 1.21       |
| 2.900    | 0.81       | 8.900    | 2.42       | 14.900   | 2.42       | 20.90    | 1.21       |
| 3.000    | 0.81       | 9.000    | 2.42       | 15.000   | 2.42       | 21.00    | 1.21       |
| 3.100    | 0.81       | 9.100    | 2.42       | 15.100   | 2.02       | 21.10    | 0.81       |
| 3.200    | 0.81       | 9.200    | 2.42       | 15.200   | 2.02       | 21.20    | 0.81       |
| 3.300    | 0.81       | 9.300    | 2.42       | 15.300   | 2.02       | 21.30    | 1.21       |
| 3.400    | 0.81       | 9.400    | 2.42       | 15.400   | 2.02       | 21.40    | 1.21       |
| 3.500    | 0.81       | 9.500    | 2.42       | 15.500   | 2.02       | 21.50    | 0.81       |
| 3.600    | 0.81       | 9.600    | 2.42       | 15.600   | 2.02       | 21.60    | 0.81       |
| 3.700    | 0.81       | 9.700    | 2.42       | 15.700   | 2.02       | 21.70    | 1.21       |
| 3.800    | 0.81       | 9.800    | 2.42       | 15.800   | 2.02       | 21.80    | 1.21       |

# PROPOSED VISUAL OTTHYMO MODEL OUTPUT

## 25mm STORM

2 THROUGH 100-YEAR STORMS

100-YEAR + 30%



=====
V V I SSSSS U U A L (v 6.2.2015)
V V I SS U U A A L
V V I SS U U A A A A L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL
000 TTTT TTTT H H Y Y M M 000 TM
O O T T H H Y Y M M O O
O O T T H H Y Y M M O O
000 T T H H Y Y M M 000
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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde9009059\
a28ab2b1-d82f-46e6-9d1b-69ec834a02a7\sc
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde9009059\
a28ab2b1-d82f-46e6-9d1b-69ec834a02a7\sc

DATE: 09/21/2025 TIME: 03:01:37

USER:

COMMENTS:

\*\* SIMULATION : 100yr +30% 24hr 12min SCS Typ \*\*

MASS STORM Filename: C:\Users\hfaulkner\AppData\Local\Temp\732e9928-e126-4c89-9ccf-fd4c260976d9\de76576b
Ptotal=174.20 mm Comments: 24-hour SCS Type-II Mass Storm Curve
Duration of storm = 24.00 hrs
Mass curve time step = 12.00 min

Table with 8 columns: TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr. It contains 48 rows of rainfall data points.

CALIB NASHYD ( 0301) Area (ha)= 1.19 Curve Number (CN)= 81.0
ID= 1 DT= 2.0 min Ia (mm)= 6.80 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

Table with 8 columns: TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr. It contains 48 rows of transformed rainfall data points.

Table with 8 columns: TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr, TIME hrs, RAIN mm/hr. It contains 48 rows of rainfall data points, continuing from the previous table.

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 5.233 | 3.48 | 11.233 | 19.16  | 17.233 | 3.48 | 23.23 | 1.74 |
| 5.267 | 3.48 | 11.267 | 19.16  | 17.267 | 3.48 | 23.27 | 1.74 |
| 5.300 | 3.48 | 11.300 | 19.16  | 17.300 | 3.48 | 23.30 | 1.74 |
| 5.333 | 3.48 | 11.333 | 19.16  | 17.333 | 3.48 | 23.33 | 1.74 |
| 5.367 | 3.48 | 11.367 | 19.16  | 17.367 | 3.48 | 23.37 | 1.74 |
| 5.400 | 3.48 | 11.400 | 19.19  | 17.400 | 3.48 | 23.40 | 1.74 |
| 5.433 | 3.48 | 11.433 | 46.16  | 17.433 | 2.61 | 23.43 | 2.61 |
| 5.467 | 3.48 | 11.467 | 46.16  | 17.467 | 2.61 | 23.47 | 2.61 |
| 5.500 | 3.48 | 11.500 | 46.16  | 17.500 | 2.61 | 23.50 | 2.61 |
| 5.533 | 3.48 | 11.533 | 46.16  | 17.533 | 2.61 | 23.53 | 2.61 |
| 5.567 | 3.48 | 11.567 | 46.16  | 17.567 | 2.61 | 23.57 | 2.61 |
| 5.600 | 3.48 | 11.600 | 46.22  | 17.600 | 2.61 | 23.60 | 2.61 |
| 5.633 | 3.48 | 11.633 | 95.81  | 17.633 | 3.48 | 23.63 | 1.74 |
| 5.667 | 3.48 | 11.667 | 95.81  | 17.667 | 3.48 | 23.67 | 1.74 |
| 5.700 | 3.48 | 11.700 | 95.81  | 17.700 | 3.48 | 23.70 | 1.74 |
| 5.733 | 3.48 | 11.733 | 95.81  | 17.733 | 3.48 | 23.73 | 1.74 |
| 5.767 | 3.48 | 11.767 | 95.81  | 17.767 | 3.48 | 23.77 | 1.74 |
| 5.800 | 3.48 | 11.800 | 95.94  | 17.800 | 3.48 | 23.80 | 1.74 |
| 5.833 | 3.48 | 11.833 | 195.98 | 17.833 | 2.61 | 23.83 | 1.74 |
| 5.867 | 3.48 | 11.867 | 195.98 | 17.867 | 2.61 | 23.87 | 1.74 |
| 5.900 | 3.48 | 11.900 | 195.98 | 17.900 | 2.61 | 23.90 | 1.74 |
| 5.933 | 3.48 | 11.933 | 195.98 | 17.933 | 2.61 | 23.93 | 1.74 |
| 5.967 | 3.48 | 11.967 | 195.98 | 17.967 | 2.61 | 23.97 | 1.74 |
| 6.000 | 3.48 | 12.000 | 195.75 | 18.000 | 2.61 | 24.00 | 1.74 |

Unit Hyd Qpeak (cms)= 0.189

PEAK FLOW (cms)= 0.324 (i)

TIME TO PEAK (hrs)= 12.133

RUNOFF VOLUME (mm)= 123.454

TOTAL RAINFALL (mm)= 174.199

RUNOFF COEFFICIENT = 0.709

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |                    |                            |
|-------------------|--------------------|----------------------------|
| CALIB             | Area (ha)= 2.75    | Curve Number (CN)= 81.0    |
| NASHYD ( 0302)    | Ia (mm)= 6.80      | # of Linear Res. (N)= 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= 0.21 |                            |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME  | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
|-------|-------|-------|-------|--------|-------|-------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033 | 1.74  | 6.033 | 3.48  | 12.033 | 34.84 | 18.03 | 2.61  |
| 0.067 | 1.74  | 6.067 | 3.48  | 12.067 | 34.84 | 18.07 | 2.61  |
| 0.100 | 1.74  | 6.100 | 3.48  | 12.100 | 34.84 | 18.10 | 2.61  |
| 0.133 | 1.74  | 6.133 | 3.48  | 12.133 | 34.84 | 18.13 | 2.61  |
| 0.167 | 1.74  | 6.167 | 3.48  | 12.167 | 34.84 | 18.17 | 2.61  |
| 0.200 | 1.74  | 6.200 | 3.48  | 12.200 | 34.82 | 18.20 | 2.61  |
| 0.233 | 1.74  | 6.233 | 3.48  | 12.233 | 21.78 | 18.23 | 2.61  |
| 0.267 | 1.74  | 6.267 | 3.48  | 12.267 | 21.78 | 18.27 | 2.61  |
| 0.300 | 1.74  | 6.300 | 3.48  | 12.300 | 21.78 | 18.30 | 2.61  |
| 0.333 | 1.74  | 6.333 | 3.48  | 12.333 | 21.78 | 18.33 | 2.61  |
| 0.367 | 1.74  | 6.367 | 3.48  | 12.367 | 21.78 | 18.37 | 2.61  |
| 0.400 | 1.74  | 6.400 | 3.48  | 12.400 | 21.77 | 18.40 | 2.61  |
| 0.433 | 1.74  | 6.433 | 3.48  | 12.433 | 15.68 | 18.43 | 3.48  |
| 0.467 | 1.74  | 6.467 | 3.48  | 12.467 | 15.68 | 18.47 | 3.48  |
| 0.500 | 1.74  | 6.500 | 3.48  | 12.500 | 15.68 | 18.50 | 3.48  |
| 0.533 | 1.74  | 6.533 | 3.48  | 12.533 | 15.68 | 18.53 | 3.48  |
| 0.567 | 1.74  | 6.567 | 3.48  | 12.567 | 15.68 | 18.57 | 3.48  |
| 0.600 | 1.74  | 6.600 | 3.48  | 12.600 | 15.68 | 18.60 | 3.48  |
| 0.633 | 1.74  | 6.633 | 3.48  | 12.633 | 14.81 | 18.63 | 2.61  |
| 0.667 | 1.74  | 6.667 | 3.48  | 12.667 | 14.81 | 18.67 | 2.61  |
| 0.700 | 1.74  | 6.700 | 3.48  | 12.700 | 14.81 | 18.70 | 2.61  |
| 0.733 | 1.74  | 6.733 | 3.48  | 12.733 | 14.81 | 18.73 | 2.61  |
| 0.767 | 1.74  | 6.767 | 3.48  | 12.767 | 14.81 | 18.77 | 2.61  |
| 0.800 | 1.74  | 6.800 | 3.48  | 12.800 | 14.80 | 18.80 | 2.61  |
| 0.833 | 1.74  | 6.833 | 3.48  | 12.833 | 10.45 | 18.83 | 2.61  |
| 0.867 | 1.74  | 6.867 | 3.48  | 12.867 | 10.45 | 18.87 | 2.61  |
| 0.900 | 1.74  | 6.900 | 3.48  | 12.900 | 10.45 | 18.90 | 2.61  |
| 0.933 | 1.74  | 6.933 | 3.48  | 12.933 | 10.45 | 18.93 | 2.61  |
| 0.967 | 1.74  | 6.967 | 3.48  | 12.967 | 10.45 | 18.97 | 2.61  |
| 1.000 | 1.74  | 7.000 | 3.48  | 13.000 | 10.45 | 19.00 | 2.61  |
| 1.033 | 1.74  | 7.033 | 3.48  | 13.033 | 8.71  | 19.03 | 3.48  |
| 1.067 | 1.74  | 7.067 | 3.48  | 13.067 | 8.71  | 19.07 | 3.48  |
| 1.100 | 1.74  | 7.100 | 3.48  | 13.100 | 8.71  | 19.10 | 3.48  |
| 1.133 | 1.74  | 7.133 | 3.48  | 13.133 | 8.71  | 19.13 | 3.48  |
| 1.167 | 1.74  | 7.167 | 3.48  | 13.167 | 8.71  | 19.17 | 3.48  |
| 1.200 | 1.74  | 7.200 | 3.48  | 13.200 | 8.71  | 19.20 | 3.48  |
| 1.233 | 1.74  | 7.233 | 3.48  | 13.233 | 8.71  | 19.23 | 2.61  |
| 1.267 | 1.74  | 7.267 | 3.48  | 13.267 | 8.71  | 19.27 | 2.61  |
| 1.300 | 1.74  | 7.300 | 3.48  | 13.300 | 8.71  | 19.30 | 2.61  |
| 1.333 | 1.74  | 7.333 | 3.48  | 13.333 | 8.71  | 19.33 | 2.61  |
| 1.367 | 1.74  | 7.367 | 3.48  | 13.367 | 8.71  | 19.37 | 2.61  |
| 1.400 | 1.74  | 7.400 | 3.48  | 13.400 | 8.71  | 19.40 | 2.61  |
| 1.433 | 1.74  | 7.433 | 3.48  | 13.433 | 8.71  | 19.43 | 3.48  |
| 1.467 | 1.74  | 7.467 | 3.48  | 13.467 | 8.71  | 19.47 | 3.48  |
| 1.500 | 1.74  | 7.500 | 3.48  | 13.500 | 8.71  | 19.50 | 3.48  |
| 1.533 | 1.74  | 7.533 | 3.48  | 13.533 | 8.71  | 19.53 | 3.48  |
| 1.567 | 1.74  | 7.567 | 3.48  | 13.567 | 8.71  | 19.57 | 3.48  |
| 1.600 | 1.74  | 7.600 | 3.48  | 13.600 | 8.71  | 19.60 | 3.48  |
| 1.633 | 1.74  | 7.633 | 3.48  | 13.633 | 8.71  | 19.63 | 2.61  |
| 1.667 | 1.74  | 7.667 | 3.48  | 13.667 | 8.71  | 19.67 | 2.61  |
| 1.700 | 1.74  | 7.700 | 3.48  | 13.700 | 8.71  | 19.70 | 2.61  |
| 1.733 | 1.74  | 7.733 | 3.48  | 13.733 | 8.71  | 19.73 | 2.61  |
| 1.767 | 1.74  | 7.767 | 3.48  | 13.767 | 8.71  | 19.77 | 2.61  |
| 1.800 | 1.74  | 7.800 | 3.48  | 13.800 | 8.71  | 19.80 | 2.61  |
| 1.833 | 1.74  | 7.833 | 3.48  | 13.833 | 8.71  | 19.83 | 3.48  |
| 1.867 | 1.74  | 7.867 | 3.48  | 13.867 | 8.71  | 19.87 | 3.48  |
| 1.900 | 1.74  | 7.900 | 3.48  | 13.900 | 8.71  | 19.90 | 3.48  |
| 1.933 | 1.74  | 7.933 | 3.48  | 13.933 | 8.71  | 19.93 | 3.48  |
| 1.967 | 1.74  | 7.967 | 3.48  | 13.967 | 8.71  | 19.97 | 3.48  |
| 2.000 | 1.74  | 8.000 | 3.48  | 14.000 | 8.70  | 20.00 | 3.48  |
| 2.033 | 1.74  | 8.033 | 5.23  | 14.033 | 5.23  | 20.03 | 2.61  |
| 2.067 | 1.74  | 8.067 | 5.23  | 14.067 | 5.23  | 20.07 | 2.61  |
| 2.100 | 1.74  | 8.100 | 5.23  | 14.100 | 5.23  | 20.10 | 2.61  |
| 2.133 | 1.74  | 8.133 | 5.23  | 14.133 | 5.23  | 20.13 | 2.61  |
| 2.167 | 1.74  | 8.167 | 5.23  | 14.167 | 5.23  | 20.17 | 2.61  |
| 2.200 | 1.74  | 8.200 | 5.23  | 14.200 | 5.23  | 20.20 | 2.61  |
| 2.233 | 1.74  | 8.233 | 5.23  | 14.233 | 5.23  | 20.23 | 2.61  |
| 2.267 | 1.74  | 8.267 | 5.23  | 14.267 | 5.23  | 20.27 | 2.61  |
| 2.300 | 1.74  | 8.300 | 5.23  | 14.300 | 5.23  | 20.30 | 2.61  |
| 2.333 | 1.74  | 8.333 | 5.23  | 14.333 | 5.23  | 20.33 | 2.61  |
| 2.367 | 1.74  | 8.367 | 5.23  | 14.367 | 5.23  | 20.37 | 2.61  |
| 2.400 | 1.74  | 8.400 | 5.23  | 14.400 | 5.23  | 20.40 | 2.61  |
| 2.433 | 1.74  | 8.433 | 5.23  | 14.433 | 5.23  | 20.43 | 1.74  |
| 2.467 | 1.74  | 8.467 | 5.23  | 14.467 | 5.23  | 20.47 | 1.74  |
| 2.500 | 1.74  | 8.500 | 5.23  | 14.500 | 5.23  | 20.50 | 1.74  |
| 2.533 | 1.74  | 8.533 | 5.23  | 14.533 | 5.23  | 20.53 | 1.74  |
| 2.567 | 1.74  | 8.567 | 5.23  | 14.567 | 5.23  | 20.57 | 1.74  |
| 2.600 | 1.74  | 8.600 | 5.23  | 14.600 | 5.23  | 20.60 | 1.74  |
| 2.633 | 1.74  | 8.633 | 5.23  | 14.633 | 5.23  | 20.63 | 2.61  |

|       |      |       |      |        |      |       |      |
|-------|------|-------|------|--------|------|-------|------|
| 2.667 | 1.74 | 8.667 | 5.23 | 14.667 | 5.23 | 20.67 | 2.61 |
| 2.700 | 1.74 | 8.700 | 5.23 | 14.700 | 5.23 | 20.70 | 2.61 |
| 2.733 | 1.74 | 8.733 | 5.23 | 14.733 | 5.23 | 20.73 | 2.61 |
| 2.767 | 1.74 | 8.767 | 5.23 | 14.767 | 5.23 | 20.77 | 2.61 |
| 2.800 | 1.74 | 8.800 | 5.23 | 14.800 | 5.23 | 20.80 | 2.61 |
| 2.833 | 1.74 | 8.833 | 5.23 | 14.833 | 5.23 | 20.83 | 2.61 |
| 2.867 | 1.74 | 8.867 | 5.23 | 14.867 | 5.23 | 20.87 | 2.61 |
| 2.900 | 1.74 | 8.900 | 5.23 | 14.900 | 5.23 | 20.90 | 2.61 |
| 2.933 | 1.74 | 8.933 | 5.23 | 14.933 | 5.23 | 20.93 | 2.61 |
| 2.967 | 1.74 | 8.967 | 5.23 | 14.967 | 5.23 | 20.97 | 2.61 |
| 3.000 | 1.74 | 9.000 | 5.23 | 15.000 | 5.22 | 21.00 | 2.61 |
| 3.033 | 1.74 | 9.033 | 5.23 | 15.033 | 4.35 | 21.03 | 1.74 |
| 3.067 | 1.74 | 9.067 | 5.23 | 15.067 | 4.35 | 21.07 | 1.74 |
| 3.100 | 1.74 | 9.100 | 5.23 | 15.100 | 4.35 | 21.10 | 1.74 |
| 3.133 | 1.74 | 9.133 | 5.23 | 15.133 | 4.35 | 21.13 | 1.74 |
| 3.167 | 1.74 | 9.167 | 5.23 | 15.167 | 4.35 | 21.17 | 1.74 |
| 3.200 | 1.74 | 9.200 | 5.23 | 15.200 | 4.36 | 21.20 | 1.74 |
| 3.233 | 1.74 | 9.233 | 5.23 | 15.233 | 4.35 | 21.23 | 2.61 |
| 3.267 | 1.74 | 9.267 | 5.23 | 15.267 | 4.35 | 21.27 | 2.61 |
| 3.300 | 1.74 | 9.300 | 5.23 | 15.300 | 4.35 | 21.30 | 2.61 |
| 3.333 | 1.74 | 9.333 | 5.23 | 15.333 | 4.35 | 21.33 | 2.61 |
| 3.367 | 1.74 | 9.367 | 5.23 | 15.367 | 4.35 | 21.37 | 2.61 |
| 3.400 | 1.74 | 9.400 | 5.23 | 15.400 | 4.36 | 21.40 | 2.61 |
| 3.433 | 1.74 | 9.433 | 5.23 | 15.433 | 4.35 | 21.43 | 1.74 |
| 3.467 | 1.74 | 9.467 | 5.23 | 15.467 | 4.35 | 21.47 | 1.74 |
| 3.500 | 1.74 | 9.500 | 5.23 | 15.500 | 4.35 | 21.50 | 1.74 |
| 3.533 | 1.74 | 9.533 | 5.23 | 15.533 | 4.35 | 21.53 | 1.74 |
| 3.567 | 1.74 | 9.567 | 5.23 | 15.567 | 4.35 | 21.57 | 1.74 |
| 3.600 | 1.74 | 9.600 | 5.23 | 15.600 | 4.36 | 21.60 | 1.74 |
| 3.633 | 1.74 | 9.633 | 5.23 | 15.633 | 4.35 | 21.63 | 2.61 |
| 3.667 | 1.74 | 9.667 | 5.23 | 15.667 | 4.35 | 21.67 | 2.61 |
| 3.700 | 1.74 | 9.700 | 5.23 | 15.700 | 4.35 | 21.70 | 2.61 |
| 3.733 | 1.74 | 9.733 | 5.23 | 15.733 | 4.35 | 21.73 | 2.61 |
| 3.767 | 1.74 | 9.767 | 5.23 | 15.767 | 4.35 | 21.77 | 2.61 |
| 3.800 | 1.74 | 9.800 | 5.23 | 15.800 | 4.36 | 21.80 | 2.61 |
| 3.833 | 1.74 | 9.833 | 5.23 | 15.833 | 4.35 | 21.83 | 1.74 |
| 3.867 | 1.74 | 9.867 | 5.23 | 15.867 | 4.35 | 21.87 | 1.74 |
| 3.900 | 1.74 | 9.90  |      |        |      |       |      |

| NASHYD ( 0303) | Area (ha)= 1.14 Curve Number (CN)= 83.0  
| ID= 1 DT= 2.0 min | Ia (mm)= 5.60 # of Linear Res.(N)= 3.00  
----- U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                              | 1.74  | 6.033 | 3.48  | 12.033 | 34.84 | 18.03 | 2.61  |
| 0.067                              | 1.74  | 6.067 | 3.48  | 12.067 | 34.84 | 18.07 | 2.61  |
| 0.100                              | 1.74  | 6.100 | 3.48  | 12.100 | 34.84 | 18.10 | 2.61  |
| 0.133                              | 1.74  | 6.133 | 3.48  | 12.133 | 34.84 | 18.13 | 2.61  |
| 0.167                              | 1.74  | 6.167 | 3.48  | 12.167 | 34.84 | 18.17 | 2.61  |
| 0.200                              | 1.74  | 6.200 | 3.48  | 12.200 | 34.82 | 18.20 | 2.61  |
| 0.233                              | 1.74  | 6.233 | 3.48  | 12.233 | 21.78 | 18.23 | 2.61  |
| 0.267                              | 1.74  | 6.267 | 3.48  | 12.267 | 21.78 | 18.27 | 2.61  |
| 0.300                              | 1.74  | 6.300 | 3.48  | 12.300 | 21.78 | 18.30 | 2.61  |
| 0.333                              | 1.74  | 6.333 | 3.48  | 12.333 | 21.78 | 18.33 | 2.61  |
| 0.367                              | 1.74  | 6.367 | 3.48  | 12.367 | 21.78 | 18.37 | 2.61  |
| 0.400                              | 1.74  | 6.400 | 3.48  | 12.400 | 21.77 | 18.40 | 2.61  |
| 0.433                              | 1.74  | 6.433 | 3.48  | 12.433 | 15.68 | 18.43 | 3.48  |
| 0.467                              | 1.74  | 6.467 | 3.48  | 12.467 | 15.68 | 18.47 | 3.48  |
| 0.500                              | 1.74  | 6.500 | 3.48  | 12.500 | 15.68 | 18.50 | 3.48  |
| 0.533                              | 1.74  | 6.533 | 3.48  | 12.533 | 15.68 | 18.53 | 3.48  |
| 0.567                              | 1.74  | 6.567 | 3.48  | 12.567 | 15.68 | 18.57 | 3.48  |
| 0.600                              | 1.74  | 6.600 | 3.48  | 12.600 | 15.68 | 18.60 | 3.48  |
| 0.633                              | 1.74  | 6.633 | 3.48  | 12.633 | 14.81 | 18.63 | 2.61  |
| 0.667                              | 1.74  | 6.667 | 3.48  | 12.667 | 14.81 | 18.67 | 2.61  |
| 0.700                              | 1.74  | 6.700 | 3.48  | 12.700 | 14.81 | 18.70 | 2.61  |
| 0.733                              | 1.74  | 6.733 | 3.48  | 12.733 | 14.81 | 18.73 | 2.61  |
| 0.767                              | 1.74  | 6.767 | 3.48  | 12.767 | 14.81 | 18.77 | 2.61  |
| 0.800                              | 1.74  | 6.800 | 3.48  | 12.800 | 14.80 | 18.80 | 2.61  |
| 0.833                              | 1.74  | 6.833 | 3.48  | 12.833 | 10.45 | 18.83 | 2.61  |
| 0.867                              | 1.74  | 6.867 | 3.48  | 12.867 | 10.45 | 18.87 | 2.61  |
| 0.900                              | 1.74  | 6.900 | 3.48  | 12.900 | 10.45 | 18.90 | 2.61  |
| 0.933                              | 1.74  | 6.933 | 3.48  | 12.933 | 10.45 | 18.93 | 2.61  |
| 0.967                              | 1.74  | 6.967 | 3.48  | 12.967 | 10.45 | 18.97 | 2.61  |
| 1.000                              | 1.74  | 7.000 | 3.48  | 13.000 | 10.45 | 19.00 | 2.61  |
| 1.033                              | 1.74  | 7.033 | 3.48  | 13.033 | 8.71  | 19.03 | 3.48  |
| 1.067                              | 1.74  | 7.067 | 3.48  | 13.067 | 8.71  | 19.07 | 3.48  |
| 1.100                              | 1.74  | 7.100 | 3.48  | 13.100 | 8.71  | 19.10 | 3.48  |
| 1.133                              | 1.74  | 7.133 | 3.48  | 13.133 | 8.71  | 19.13 | 3.48  |
| 1.167                              | 1.74  | 7.167 | 3.48  | 13.167 | 8.71  | 19.17 | 3.48  |
| 1.200                              | 1.74  | 7.200 | 3.48  | 13.200 | 8.71  | 19.20 | 3.48  |
| 1.233                              | 1.74  | 7.233 | 3.48  | 13.233 | 8.71  | 19.23 | 2.61  |
| 1.267                              | 1.74  | 7.267 | 3.48  | 13.267 | 8.71  | 19.27 | 2.61  |
| 1.300                              | 1.74  | 7.300 | 3.48  | 13.300 | 8.71  | 19.30 | 2.61  |
| 1.333                              | 1.74  | 7.333 | 3.48  | 13.333 | 8.71  | 19.33 | 2.61  |
| 1.367                              | 1.74  | 7.367 | 3.48  | 13.367 | 8.71  | 19.37 | 2.61  |
| 1.400                              | 1.74  | 7.400 | 3.48  | 13.400 | 8.71  | 19.40 | 2.61  |
| 1.433                              | 1.74  | 7.433 | 3.48  | 13.433 | 8.71  | 19.43 | 3.48  |
| 1.467                              | 1.74  | 7.467 | 3.48  | 13.467 | 8.71  | 19.47 | 3.48  |
| 1.500                              | 1.74  | 7.500 | 3.48  | 13.500 | 8.71  | 19.50 | 3.48  |
| 1.533                              | 1.74  | 7.533 | 3.48  | 13.533 | 8.71  | 19.53 | 3.48  |
| 1.567                              | 1.74  | 7.567 | 3.48  | 13.567 | 8.71  | 19.57 | 3.48  |
| 1.600                              | 1.74  | 7.600 | 3.48  | 13.600 | 8.71  | 19.60 | 3.48  |
| 1.633                              | 1.74  | 7.633 | 3.48  | 13.633 | 8.71  | 19.63 | 2.61  |
| 1.667                              | 1.74  | 7.667 | 3.48  | 13.667 | 8.71  | 19.67 | 2.61  |
| 1.700                              | 1.74  | 7.700 | 3.48  | 13.700 | 8.71  | 19.70 | 2.61  |
| 1.733                              | 1.74  | 7.733 | 3.48  | 13.733 | 8.71  | 19.73 | 2.61  |
| 1.767                              | 1.74  | 7.767 | 3.48  | 13.767 | 8.71  | 19.77 | 2.61  |
| 1.800                              | 1.74  | 7.800 | 3.48  | 13.800 | 8.71  | 19.80 | 2.61  |
| 1.833                              | 1.74  | 7.833 | 3.48  | 13.833 | 8.71  | 19.83 | 3.48  |
| 1.867                              | 1.74  | 7.867 | 3.48  | 13.867 | 8.71  | 19.87 | 3.48  |
| 1.900                              | 1.74  | 7.900 | 3.48  | 13.900 | 8.71  | 19.90 | 3.48  |
| 1.933                              | 1.74  | 7.933 | 3.48  | 13.933 | 8.71  | 19.93 | 3.48  |
| 1.967                              | 1.74  | 7.967 | 3.48  | 13.967 | 8.71  | 19.97 | 3.48  |
| 2.000                              | 1.74  | 8.000 | 3.48  | 14.000 | 8.70  | 20.00 | 3.48  |
| 2.033                              | 1.74  | 8.033 | 5.23  | 14.033 | 5.23  | 20.03 | 2.61  |
| 2.067                              | 1.74  | 8.067 | 5.23  | 14.067 | 5.23  | 20.07 | 2.61  |
| 2.100                              | 1.74  | 8.100 | 5.23  | 14.100 | 5.23  | 20.10 | 2.61  |
| 2.133                              | 1.74  | 8.133 | 5.23  | 14.133 | 5.23  | 20.13 | 2.61  |
| 2.167                              | 1.74  | 8.167 | 5.23  | 14.167 | 5.23  | 20.17 | 2.61  |
| 2.200                              | 1.74  | 8.200 | 5.23  | 14.200 | 5.23  | 20.20 | 2.61  |
| 2.233                              | 1.74  | 8.233 | 5.23  | 14.233 | 5.23  | 20.23 | 2.61  |
| 2.267                              | 1.74  | 8.267 | 5.23  | 14.267 | 5.23  | 20.27 | 2.61  |
| 2.300                              | 1.74  | 8.300 | 5.23  | 14.300 | 5.23  | 20.30 | 2.61  |
| 2.333                              | 1.74  | 8.333 | 5.23  | 14.333 | 5.23  | 20.33 | 2.61  |
| 2.367                              | 1.74  | 8.367 | 5.23  | 14.367 | 5.23  | 20.37 | 2.61  |
| 2.400                              | 1.74  | 8.400 | 5.23  | 14.400 | 5.23  | 20.40 | 2.61  |
| 2.433                              | 1.74  | 8.433 | 5.23  | 14.433 | 5.23  | 20.43 | 1.74  |
| 2.467                              | 1.74  | 8.467 | 5.23  | 14.467 | 5.23  | 20.47 | 1.74  |
| 2.500                              | 1.74  | 8.500 | 5.23  | 14.500 | 5.23  | 20.50 | 1.74  |
| 2.533                              | 1.74  | 8.533 | 5.23  | 14.533 | 5.23  | 20.53 | 1.74  |
| 2.567                              | 1.74  | 8.567 | 5.23  | 14.567 | 5.23  | 20.57 | 1.74  |
| 2.600                              | 1.74  | 8.600 | 5.23  | 14.600 | 5.23  | 20.60 | 1.74  |
| 2.633                              | 1.74  | 8.633 | 5.23  | 14.633 | 5.23  | 20.63 | 2.61  |
| 2.667                              | 1.74  | 8.667 | 5.23  | 14.667 | 5.23  | 20.67 | 2.61  |
| 2.700                              | 1.74  | 8.700 | 5.23  | 14.700 | 5.23  | 20.70 | 2.61  |
| 2.733                              | 1.74  | 8.733 | 5.23  | 14.733 | 5.23  | 20.73 | 2.61  |
| 2.767                              | 1.74  | 8.767 | 5.23  | 14.767 | 5.23  | 20.77 | 2.61  |
| 2.800                              | 1.74  | 8.800 | 5.23  | 14.800 | 5.23  | 20.80 | 2.61  |
| 2.833                              | 1.74  | 8.833 | 5.23  | 14.833 | 5.23  | 20.83 | 2.61  |
| 2.867                              | 1.74  | 8.867 | 5.23  | 14.867 | 5.23  | 20.87 | 2.61  |
| 2.900                              | 1.74  | 8.900 | 5.23  | 14.900 | 5.23  | 20.90 | 2.61  |
| 2.933                              | 1.74  | 8.933 | 5.23  | 14.933 | 5.23  | 20.93 | 2.61  |
| 2.967                              | 1.74  | 8.967 | 5.23  | 14.967 | 5.23  | 20.97 | 2.61  |
| 3.000                              | 1.74  | 9.000 | 5.23  | 15.000 | 5.22  | 21.00 | 2.61  |
| 3.033                              | 1.74  | 9.033 | 5.23  | 15.033 | 4.35  | 21.03 | 1.74  |
| 3.067                              | 1.74  | 9.067 | 5.23  | 15.067 | 4.35  | 21.07 | 1.74  |
| 3.100                              | 1.74  | 9.100 | 5.23  | 15.100 | 4.35  | 21.10 | 1.74  |
| 3.133                              | 1.74  | 9.133 | 5.23  | 15.133 | 4.35  | 21.13 | 1.74  |
| 3.167                              | 1.74  | 9.167 | 5.23  | 15.167 | 4.35  | 21.17 | 1.74  |
| 3.200                              | 1.74  | 9.200 | 5.23  | 15.200 | 4.36  | 21.20 | 1.74  |
| 3.233                              | 1.74  | 9.233 | 5.23  | 15.233 | 4.35  | 21.23 | 2.61  |
| 3.267                              | 1.74  | 9.267 | 5.23  | 15.267 | 4.35  | 21.27 | 2.61  |
| 3.300                              | 1.74  | 9.300 | 5.23  | 15.300 | 4.35  | 21.30 | 2.61  |
| 3.333                              | 1.74  | 9.333 | 5.23  | 15.333 | 4.35  | 21.33 | 2.61  |
| 3.367                              | 1.74  | 9.367 | 5.23  | 15.367 | 4.35  | 21.37 | 2.61  |
| 3.400                              | 1.74  | 9.400 | 5.23  | 15.400 | 4.36  | 21.40 | 2.61  |
| 3.433                              | 1.74  | 9.433 | 5.23  | 15.433 | 4.35  | 21.43 | 1.74  |
| 3.467                              | 1.74  | 9.467 | 5.23  | 15.467 | 4.35  | 21.47 | 1.74  |
| 3.500                              | 1.74  | 9.500 | 5.23  | 15.500 | 4.35  | 21.50 | 1.74  |
| 3.533                              | 1.74  | 9.533 | 5.23  | 15.533 | 4.35  | 21.53 | 1.74  |
| 3.567                              | 1.74  | 9.567 | 5.23  | 15.567 | 4.35  | 21.57 | 1.74  |
| 3.600                              | 1.74  | 9.600 | 5.23  | 15.600 | 4.36  | 21.60 | 1.74  |
| 3.633                              | 1.74  | 9.633 | 5.23  | 15.633 | 4.35  | 21.63 | 2.61  |
| 3.667                              | 1.74  | 9.667 | 5.23  | 15.667 | 4.35  | 21.67 | 2.61  |
| 3.700                              | 1.74  | 9.700 | 5.23  | 15.700 | 4.35  | 21.70 | 2.61  |
| 3.733                              | 1.74  | 9.733 | 5.23  | 15.733 | 4.35  | 21.73 | 2.61  |
| 3.767                              | 1.74  | 9.767 | 5.23  | 15.767 | 4.35  | 21.77 | 2.61  |
| 3.800                              | 1.74  | 9.800 | 5.23  | 15.800 | 4.36  | 21.80 | 2.61  |
| 3.833                              | 1.74  | 9.833 | 5.23  | 15.833 | 4.35  | 21.83 | 1.74  |
| 3.867                              | 1.74  | 9.867 | 5.23  | 15.867 | 4.35  | 21.87 | 1.74  |
| 3.900                              | 1.74  | 9.900 | 5.23  | 15.900 | 4.35  | 21.90 | 1.74  |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 3.933 | 1.74 | 9.933  | 5.23   | 15.933 | 4.35 | 21.93 | 1.74 |
| 3.967 | 1.74 | 9.967  | 5.23   | 15.967 | 4.35 | 21.97 | 1.74 |
| 4.000 | 1.74 | 10.000 | 5.23   | 16.000 | 4.36 | 22.00 | 1.74 |
| 4.033 | 3.48 | 10.033 | 9.58   | 16.033 | 4.36 | 22.03 | 1.74 |
| 4.067 | 3.48 | 10.067 | 9.58   | 16.067 | 4.36 | 22.07 | 1.74 |
| 4.100 | 3.48 | 10.100 | 9.58   | 16.100 | 4.36 | 22.10 | 1.74 |
| 4.133 | 3.48 | 10.133 | 9.58   | 16.133 | 4.36 | 22.13 | 1.74 |
| 4.167 | 3.48 | 10.167 | 9.58   | 16.167 | 4.36 | 22.17 | 1.74 |
| 4.200 | 3.48 | 10.200 | 9.58   | 16.200 | 4.35 | 22.20 | 1.74 |
| 4.233 | 3.48 | 10.233 | 9.58   | 16.233 | 4.35 | 22.23 | 2.61 |
| 4.267 | 3.48 | 10.267 | 9.58   | 16.267 | 4.35 | 22.27 | 2.61 |
| 4.300 | 3.48 | 10.300 | 9.58   | 16.300 | 4.35 | 22.30 | 2.61 |
| 4.333 | 3.48 | 10.333 | 9.58   | 16.333 | 4.35 | 22.33 | 2.61 |
| 4.367 | 3.48 | 10.367 | 9.58   | 16.367 | 4.35 | 22.37 | 2.61 |
| 4.400 | 3.48 | 10.400 | 9.58   | 16.400 | 4.35 | 22.40 | 2.61 |
| 4.433 | 3.48 | 10.433 | 9.58   | 16.433 | 4.35 | 22.43 | 1.74 |
| 4.467 | 3.48 | 10.467 | 9.58   | 16.467 | 4.35 | 22.47 | 1.74 |
| 4.500 | 3.48 | 10.500 | 9.58   | 16.500 | 4.35 | 22.50 | 1.74 |
| 4.533 | 3.48 | 10.533 | 9.58   | 16.533 | 4.35 | 22.53 | 1.74 |
| 4.567 | 3.48 | 10.567 | 9.58   | 16.567 | 4.35 | 22.57 | 1.74 |
| 4.600 | 3.48 | 10.600 | 9.58   | 16.600 | 4.35 | 22.60 | 1.74 |
| 4.633 | 3.48 | 10.633 | 9.58   | 16.633 | 4.35 | 22.63 | 2.61 |
| 4.667 | 3.48 | 10.667 | 9.58   | 16.667 | 4.35 | 22.67 | 2.61 |
| 4.700 | 3.48 | 10.700 | 9.58   | 16.700 | 4.35 | 22.70 | 2.61 |
| 4.733 | 3.48 | 10.733 | 9.58   | 16.733 | 4.35 | 22.73 | 2.61 |
| 4.767 | 3.48 | 10.767 | 9.58   | 16.767 | 4.35 | 22.77 | 2.61 |
| 4.800 | 3.48 | 10.800 | 9.58   | 16.800 | 4.35 | 22.80 | 2.61 |
| 4.833 | 3.48 | 10.833 | 9.58   | 16.833 | 2.61 | 22.83 | 1.74 |
| 4.867 | 3.48 | 10.867 | 9.58   | 16.867 | 2.61 | 22.87 | 1.74 |
| 4.900 | 3.48 | 10.900 | 9.58   | 16.900 | 2.61 | 22.90 | 1.74 |
| 4.933 | 3.48 | 10.933 | 9.58   | 16.933 | 2.61 | 22.93 | 1.74 |
| 4.967 | 3.48 | 10.967 | 9.58   | 16.967 | 2.61 | 22.97 | 1.74 |
| 5.000 | 3.48 | 11.000 | 9.58   | 17.000 | 2.61 | 23.00 | 1.74 |
| 5.033 | 3.48 | 11.033 | 13.07  | 17.033 | 2.61 | 23.03 | 1.74 |
| 5.067 | 3.48 | 11.067 | 13.07  | 17.067 | 2.61 | 23.07 | 1.74 |
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| 5.233 | 3.48 | 11.233 | 19.16  | 17.233 | 3.48 | 23.23 | 1.74 |
| 5.267 | 3.48 | 11.267 | 19.16  | 17.267 | 3.48 | 23.27 | 1.74 |
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| 5.333 | 3.48 | 11.333 | 19.16  | 17.333 | 3.48 | 23.33 | 1.74 |
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| 5.500 | 3.48 | 11.500 | 46.16  | 17.500 | 2.61 | 23.50 | 2.61 |
| 5.533 | 3.48 | 11.533 | 46.16  | 17.533 | 2.61 | 23.53 | 2.61 |
| 5.567 | 3.48 | 11.567 | 46.16  | 17.567 | 2.61 | 23.57 | 2.61 |
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| 5.700 | 3.48 | 11.700 | 95.81  | 17.700 | 3.48 | 23.70 | 1.74 |
| 5.733 | 3.48 | 11.733 | 95.81  | 17.733 | 3.48 | 23.73 | 1.74 |
| 5.767 | 3.48 | 11.767 | 95.81  | 17.767 | 3.48 | 23.77 | 1.74 |
| 5.800 | 3.48 | 11.800 | 95.94  | 17.800 | 3.48 | 23.80 | 1.74 |
| 5.833 | 3.48 | 11.833 | 195.98 | 17.833 | 2.61 | 23.83 | 1.74 |
| 5.867 | 3.48 | 11.867 | 195.98 | 17.867 | 2.61 | 23.87 | 1.74 |
| 5.900 | 3.48 | 11.900 | 195.98 | 17.900 | 2.61 | 23.90 | 1.74 |
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| 5.967 | 3.48 | 11.967 | 195.98 | 17.967 | 2.61 | 23.97 | 1.74 |
| 6.000 | 3.48 | 12.000 | 195.75 | 18.000 | 2.61 | 24.00 | 1.74 |

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3.133 1.74 9.133 5.23 15.133 4.35 21.13 1.74  
3.167 1.74 9.167 5.23 15.167 4.35 21.17 1.74  
3.200 1.74 9.200 5.23 15.200 4.36 21.20 1.74  
3.233 1.74 9.233 5.23 15.233 4.35 21.23 2.61  
3.267 1.74 9.267 5.23 15.267 4.35 21.27 2.61  
3.300 1.74 9.300 5.23 15.300 4.35 21.30 2.61  
3.333 1.74 9.333 5.23 15.333 4.35 21.33 2.61  
3.367 1.74 9.367 5.23 15.367 4.35 21.37 2.61  
3.400 1.74 9.400 5.23 15.400 4.36 21.40 2.61  
3.433 1.74 9.433 5.23 15.433 4.35 21.43 1.74  
3.467 1.74 9.467 5.23 15.467 4.35 21.47 1.74  
3.500 1.74 9.500 5.23 15.500 4.35 21.50 1.74  
3.533 1.74 9.533 5.23 15.533 4.35 21.53 1.74  
3.567 1.74 9.567 5.23 15.567 4.35 21.57 1.74  
3.600 1.74 9.600 5.23 15.600 4.36 21.60 1.74  
3.633 1.74 9.633 5.23 15.633 4.35 21.63 2.61  
3.667 1.74 9.667 5.23 15.667 4.35 21.67 2.61  
3.700 1.74 9.700 5.23 15.700 4.35 21.70 2.61  
3.733 1.74 9.733 5.23 15.733 4.35 21.73 2.61  
3.767 1.74 9.767 5.23 15.767 4.35 21.77 2.61  
3.800 1.74 9.800 5.23 15.800 4.36 21.80 2.61  
3.833 1.74 9.833 5.23 15.833 4.35 21.83 1.74  
3.867 1.74 9.867 5.23 15.867 4.35 21.87 1.74  
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4.033 3.48 10.033 9.58 16.033 4.36 22.03 1.74  
4.067 3.48 10.067 9.58 16.067 4.36 22.07 1.74  
4.100 3.48 10.100 9.58 16.100 4.36 22.10 1.74  
4.133 3.48 10.133 9.58 16.133 4.36 22.13 1.74  
4.167 3.48 10.167 9.58 16.167 4.36 22.17 1.74  
4.200 3.48 10.200 9.58 16.200 4.35 22.20 1.74  
4.233 3.48 10.233 9.58 16.233 4.35 22.23 2.61  
4.267 3.48 10.267 9.58 16.267 4.35 22.27 2.61  
4.300 3.48 10.300 9.58 16.300 4.35 22.30 2.61  
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4.467 3.48 10.467 9.58 16.467 4.35 22.47 1.74  
4.500 3.48 10.500 9.58 16.500 4.35 22.50 1.74

4.533 3.48 10.533 9.58 16.533 4.35 22.53 1.74  
4.567 3.48 10.567 9.58 16.567 4.35 22.57 1.74  
4.600 3.48 10.600 9.58 16.600 4.35 22.60 1.74  
4.633 3.48 10.633 9.58 16.633 4.35 22.63 2.61  
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4.700 3.48 10.700 9.58 16.700 4.35 22.70 2.61  
4.733 3.48 10.733 9.58 16.733 4.35 22.73 2.61  
4.767 3.48 10.767 9.58 16.767 4.35 22.77 2.61  
4.800 3.48 10.800 9.58 16.800 4.35 22.80 2.61  
4.833 3.48 10.833 9.58 16.833 2.61 22.83 1.74  
4.867 3.48 10.867 9.58 16.867 2.61 22.87 1.74  
4.900 3.48 10.900 9.58 16.900 2.61 22.90 1.74  
4.933 3.48 10.933 9.58 16.933 2.61 22.93 1.74  
4.967 3.48 10.967 9.58 16.967 2.61 22.97 1.74  
5.000 3.48 11.000 9.58 17.000 2.61 23.00 1.74  
5.033 3.48 11.033 13.07 17.033 2.61 23.03 1.74  
5.067 3.48 11.067 13.07 17.067 2.61 23.07 1.74  
5.100 3.48 11.100 13.07 17.100 2.61 23.10 1.74  
5.133 3.48 11.133 13.07 17.133 2.61 23.13 1.74  
5.167 3.48 11.167 13.07 17.167 2.61 23.17 1.74  
5.200 3.48 11.200 13.07 17.200 2.62 23.20 1.74  
5.233 3.48 11.233 19.16 17.233 3.48 23.23 1.74  
5.267 3.48 11.267 19.16 17.267 3.48 23.27 1.74  
5.300 3.48 11.300 19.16 17.300 3.48 23.30 1.74  
5.333 3.48 11.333 19.16 17.333 3.48 23.33 1.74  
5.367 3.48 11.367 19.16 17.367 3.48 23.37 1.74  
5.400 3.48 11.400 19.19 17.400 3.48 23.40 1.74  
5.433 3.48 11.433 46.16 17.433 2.61 23.43 2.61  
5.467 3.48 11.467 46.16 17.467 2.61 23.47 2.61  
5.500 3.48 11.500 46.16 17.500 2.61 23.50 2.61  
5.533 3.48 11.533 46.16 17.533 2.61 23.53 2.61  
5.567 3.48 11.567 46.16 17.567 2.61 23.57 2.61  
5.600 3.48 11.600 46.22 17.600 2.61 23.60 2.61  
5.633 3.48 11.633 95.81 17.633 3.48 23.63 1.74  
5.667 3.48 11.667 95.81 17.667 3.48 23.67 1.74  
5.700 3.48 11.700 95.81 17.700 3.48 23.70 1.74  
5.733 3.48 11.733 95.81 17.733 3.48 23.73 1.74  
5.767 3.48 11.767 95.81 17.767 3.48 23.77 1.74  
5.800 3.48 11.800 95.94 17.800 3.48 23.80 1.74  
5.833 3.48 11.833 195.98 17.833 2.61 23.83 1.74  
5.867 3.48 11.867 195.98 17.867 2.61 23.87 1.74  
5.900 3.48 11.900 195.98 17.900 2.61 23.90 1.74  
5.933 3.48 11.933 195.98 17.933 2.61 23.93 1.74  
5.967 3.48 11.967 195.98 17.967 2.61 23.97 1.74  
6.000 3.48 12.000 195.75 18.000 2.61 24.00 1.74

Unit Hyd Qpeak (cms)= 0.092

PEAK FLOW (cms)= 0.126 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 102.320  
TOTAL RAINFALL (mm)= 174.199  
RUNOFF COEFFICIENT = 0.587

(1) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB NASHVD ( 0501) | Area (ha)= 8.72 Curve Number (CN)= 71.0  
ID= 1 DT= 2.0 min | Ia (mm)= 8.00 # of Linear Res. (N)= 3.00  
U.H. Tp(hrs)= 0.42

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr ' hrs mm/hr hrs mm/hr  
0.033 1.74 6.033 3.48 12.033 34.84 18.03 2.61  
0.067 1.74 6.067 3.48 12.067 34.84 18.07 2.61  
0.100 1.74 6.100 3.48 12.100 34.84 18.10 2.61  
0.133 1.74 6.133 3.48 12.133 34.84 18.13 2.61  
0.167 1.74 6.167 3.48 12.167 34.84 18.17 2.61  
0.200 1.74 6.200 3.48 12.200 34.82 18.20 2.61  
0.233 1.74 6.233 3.48 12.233 21.78 18.23 2.61  
0.267 1.74 6.267 3.48 12.267 21.78 18.27 2.61  
0.300 1.74 6.300 3.48 12.300 21.78 18.30 2.61  
0.333 1.74 6.333 3.48 12.333 21.78 18.33 2.61  
0.367 1.74 6.367 3.48 12.367 21.78 18.37 2.61  
0.400 1.74 6.400 3.48 12.400 21.77 18.40 2.61  
0.433 1.74 6.433 3.48 12.433 15.68 18.43 3.48  
0.467 1.74 6.467 3.48 12.467 15.68 18.47 3.48  
0.500 1.74 6.500 3.48 12.500 15.68 18.50 3.48  
0.533 1.74 6.533 3.48 12.533 15.68 18.53 3.48  
0.567 1.74 6.567 3.48 12.567 15.68 18.57 3.48  
0.600 1.74 6.600 3.48 12.600 15.68 18.60 3.48  
0.633 1.74 6.633 3.48 12.633 14.81 18.63 2.61  
0.667 1.74 6.667 3.48 12.667 14.81 18.67 2.61  
0.700 1.74 6.700 3.48 12.700 14.81 18.70 2.61  
0.733 1.74 6.733 3.48 12.733 14.81 18.73 2.61  
0.767 1.74 6.767 3.48 12.767 14.81 18.77 2.61  
0.800 1.74 6.800 3.48 12.800 14.80 18.80 2.61  
0.833 1.74 6.833 3.48 12.833 10.45 18.83 2.61  
0.867 1.74 6.867 3.48 12.867 10.45 18.87 2.61  
0.900 1.74 6.900 3.48 12.900 10.45 18.90 2.61  
0.933 1.74 6.933 3.48 12.933 10.45 18.93 2.61  
0.967 1.74 6.967 3.48 12.967 10.45 18.97 2.61  
1.000 1.74 7.000 3.48 13.000 10.45 19.00 2.61  
1.033 1.74 7.033 3.48 13.033 8.71 19.03 3.48  
1.067 1.74 7.067 3.48 13.067 8.71 19.07 3.48  
1.100 1.74 7.100 3.48 13.100 8.71 19.10 3.48  
1.133 1.74 7.133 3.48 13.133 8.71 19.13 3.48  
1.167 1.74 7.167 3.48 13.167 8.71 19.17 3.48  
1.200 1.74 7.200 3.48 13.200 8.71 19.20 3.48  
1.233 1.74 7.233 3.48 13.233 8.71 19.23 2.61  
1.267 1.74 7.267 3.48 13.267 8.71 19.27 2.61  
1.300 1.74 7.300 3.48 13.300 8.71 19.30 2.61  
1.333 1.74 7.333 3.48 13.333 8.71 19.33 2.61  
1.367 1.74 7.367 3.48 13.367 8.71 19.37 2.61  
1.400 1.74 7.400 3.48 13.400 8.71 19.40 2.61  
1.433 1.74 7.433 3.48 13.433 8.71 19.43 3.48  
1.467 1.74 7.467 3.48 13.467 8.71 19.47 3.48  
1.500 1.74 7.500 3.48 13.500 8.71 19.50 3.48  
1.533 1.74 7.533 3.48 13.533 8.71 19.53 3.48  
1.567 1.74 7.567 3.48 13.567 8.71 19.57 3.48  
1.600 1.74 7.600 3.48 13.600 8.71 19.60 3.48  
1.633 1.74 7.633 3.48 13.633 8.71 19.63 2.61  
1.667 1.74 7.667 3.48 13.667 8.71 19.67 2.61  
1.700 1.74 7.700 3.48 13.700 8.71 19.70 2.61  
1.733 1.74 7.733 3.48 13.733 8.71 19.73 2.61  
1.767 1.74 7.767 3.48 13.767 8.71 19.77 2.61  
1.800 1.74 7.800 3.48 13.800 8.71 19.80 2.61  
1.833 1.74 7.833 3.48 13.833 8.71 19.83 3.48  
1.867 1.74 7.867 3.48 13.867 8.71 19.87 3.48  
1.900 1.74 7.900 3.48 13.900 8.71 19.90 3.48  
1.933 1.74 7.933 3.48 13.933 8.71 19.93 3.48

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 1.967 | 1.74 | 7.967  | 3.48   | 13.967 | 8.71 | 19.97 | 3.48 |
| 2.000 | 1.74 | 8.000  | 3.48   | 14.000 | 8.70 | 20.00 | 3.48 |
| 2.033 | 1.74 | 8.033  | 5.23   | 14.033 | 5.23 | 20.03 | 2.61 |
| 2.067 | 1.74 | 8.067  | 5.23   | 14.067 | 5.23 | 20.07 | 2.61 |
| 2.100 | 1.74 | 8.100  | 5.23   | 14.100 | 5.23 | 20.10 | 2.61 |
| 2.133 | 1.74 | 8.133  | 5.23   | 14.133 | 5.23 | 20.13 | 2.61 |
| 2.167 | 1.74 | 8.167  | 5.23   | 14.167 | 5.23 | 20.17 | 2.61 |
| 2.200 | 1.74 | 8.200  | 5.23   | 14.200 | 5.23 | 20.20 | 2.61 |
| 2.233 | 1.74 | 8.233  | 5.23   | 14.233 | 5.23 | 20.23 | 2.61 |
| 2.267 | 1.74 | 8.267  | 5.23   | 14.267 | 5.23 | 20.27 | 2.61 |
| 2.300 | 1.74 | 8.300  | 5.23   | 14.300 | 5.23 | 20.30 | 2.61 |
| 2.333 | 1.74 | 8.333  | 5.23   | 14.333 | 5.23 | 20.33 | 2.61 |
| 2.367 | 1.74 | 8.367  | 5.23   | 14.367 | 5.23 | 20.37 | 2.61 |
| 2.400 | 1.74 | 8.400  | 5.23   | 14.400 | 5.23 | 20.40 | 2.61 |
| 2.433 | 1.74 | 8.433  | 5.23   | 14.433 | 5.23 | 20.43 | 1.74 |
| 2.467 | 1.74 | 8.467  | 5.23   | 14.467 | 5.23 | 20.47 | 1.74 |
| 2.500 | 1.74 | 8.500  | 5.23   | 14.500 | 5.23 | 20.50 | 1.74 |
| 2.533 | 1.74 | 8.533  | 5.23   | 14.533 | 5.23 | 20.53 | 1.74 |
| 2.567 | 1.74 | 8.567  | 5.23   | 14.567 | 5.23 | 20.57 | 1.74 |
| 2.600 | 1.74 | 8.600  | 5.23   | 14.600 | 5.23 | 20.60 | 1.74 |
| 2.633 | 1.74 | 8.633  | 5.23   | 14.633 | 5.23 | 20.63 | 2.61 |
| 2.667 | 1.74 | 8.667  | 5.23   | 14.667 | 5.23 | 20.67 | 2.61 |
| 2.700 | 1.74 | 8.700  | 5.23   | 14.700 | 5.23 | 20.70 | 2.61 |
| 2.733 | 1.74 | 8.733  | 5.23   | 14.733 | 5.23 | 20.73 | 2.61 |
| 2.767 | 1.74 | 8.767  | 5.23   | 14.767 | 5.23 | 20.77 | 2.61 |
| 2.800 | 1.74 | 8.800  | 5.23   | 14.800 | 5.23 | 20.80 | 2.61 |
| 2.833 | 1.74 | 8.833  | 5.23   | 14.833 | 5.23 | 20.83 | 2.61 |
| 2.867 | 1.74 | 8.867  | 5.23   | 14.867 | 5.23 | 20.87 | 2.61 |
| 2.900 | 1.74 | 8.900  | 5.23   | 14.900 | 5.23 | 20.90 | 2.61 |
| 2.933 | 1.74 | 8.933  | 5.23   | 14.933 | 5.23 | 20.93 | 2.61 |
| 2.967 | 1.74 | 8.967  | 5.23   | 14.967 | 5.23 | 20.97 | 2.61 |
| 3.000 | 1.74 | 9.000  | 5.23   | 15.000 | 5.22 | 21.00 | 2.61 |
| 3.033 | 1.74 | 9.033  | 5.23   | 15.033 | 4.35 | 21.03 | 1.74 |
| 3.067 | 1.74 | 9.067  | 5.23   | 15.067 | 4.35 | 21.07 | 1.74 |
| 3.100 | 1.74 | 9.100  | 5.23   | 15.100 | 4.35 | 21.10 | 1.74 |
| 3.133 | 1.74 | 9.133  | 5.23   | 15.133 | 4.35 | 21.13 | 1.74 |
| 3.167 | 1.74 | 9.167  | 5.23   | 15.167 | 4.35 | 21.17 | 1.74 |
| 3.200 | 1.74 | 9.200  | 5.23   | 15.200 | 4.36 | 21.20 | 1.74 |
| 3.233 | 1.74 | 9.233  | 5.23   | 15.233 | 4.35 | 21.23 | 2.61 |
| 3.267 | 1.74 | 9.267  | 5.23   | 15.267 | 4.35 | 21.27 | 2.61 |
| 3.300 | 1.74 | 9.300  | 5.23   | 15.300 | 4.35 | 21.30 | 2.61 |
| 3.333 | 1.74 | 9.333  | 5.23   | 15.333 | 4.35 | 21.33 | 2.61 |
| 3.367 | 1.74 | 9.367  | 5.23   | 15.367 | 4.35 | 21.37 | 2.61 |
| 3.400 | 1.74 | 9.400  | 5.23   | 15.400 | 4.36 | 21.40 | 2.61 |
| 3.433 | 1.74 | 9.433  | 5.23   | 15.433 | 4.35 | 21.43 | 1.74 |
| 3.467 | 1.74 | 9.467  | 5.23   | 15.467 | 4.35 | 21.47 | 1.74 |
| 3.500 | 1.74 | 9.500  | 5.23   | 15.500 | 4.35 | 21.50 | 1.74 |
| 3.533 | 1.74 | 9.533  | 5.23   | 15.533 | 4.35 | 21.53 | 1.74 |
| 3.567 | 1.74 | 9.567  | 5.23   | 15.567 | 4.35 | 21.57 | 1.74 |
| 3.600 | 1.74 | 9.600  | 5.23   | 15.600 | 4.36 | 21.60 | 1.74 |
| 3.633 | 1.74 | 9.633  | 5.23   | 15.633 | 4.35 | 21.63 | 2.61 |
| 3.667 | 1.74 | 9.667  | 5.23   | 15.667 | 4.35 | 21.67 | 2.61 |
| 3.700 | 1.74 | 9.700  | 5.23   | 15.700 | 4.35 | 21.70 | 2.61 |
| 3.733 | 1.74 | 9.733  | 5.23   | 15.733 | 4.35 | 21.73 | 2.61 |
| 3.767 | 1.74 | 9.767  | 5.23   | 15.767 | 4.35 | 21.77 | 2.61 |
| 3.800 | 1.74 | 9.800  | 5.23   | 15.800 | 4.36 | 21.80 | 2.61 |
| 3.833 | 1.74 | 9.833  | 5.23   | 15.833 | 4.35 | 21.83 | 1.74 |
| 3.867 | 1.74 | 9.867  | 5.23   | 15.867 | 4.35 | 21.87 | 1.74 |
| 3.900 | 1.74 | 9.900  | 5.23   | 15.900 | 4.35 | 21.90 | 1.74 |
| 3.933 | 1.74 | 9.933  | 5.23   | 15.933 | 4.35 | 21.93 | 1.74 |
| 3.967 | 1.74 | 9.967  | 5.23   | 15.967 | 4.35 | 21.97 | 1.74 |
| 4.000 | 1.74 | 10.000 | 5.23   | 16.000 | 4.36 | 22.00 | 1.74 |
| 4.033 | 3.48 | 10.033 | 9.58   | 16.033 | 4.36 | 22.03 | 1.74 |
| 4.067 | 3.48 | 10.067 | 9.58   | 16.067 | 4.36 | 22.07 | 1.74 |
| 4.100 | 3.48 | 10.100 | 9.58   | 16.100 | 4.36 | 22.10 | 1.74 |
| 4.133 | 3.48 | 10.133 | 9.58   | 16.133 | 4.36 | 22.13 | 1.74 |
| 4.167 | 3.48 | 10.167 | 9.58   | 16.167 | 4.36 | 22.17 | 1.74 |
| 4.200 | 3.48 | 10.200 | 9.58   | 16.200 | 4.35 | 22.20 | 1.74 |
| 4.233 | 3.48 | 10.233 | 9.58   | 16.233 | 4.35 | 22.23 | 2.61 |
| 4.267 | 3.48 | 10.267 | 9.58   | 16.267 | 4.35 | 22.27 | 2.61 |
| 4.300 | 3.48 | 10.300 | 9.58   | 16.300 | 4.35 | 22.30 | 2.61 |
| 4.333 | 3.48 | 10.333 | 9.58   | 16.333 | 4.35 | 22.33 | 2.61 |
| 4.367 | 3.48 | 10.367 | 9.58   | 16.367 | 4.35 | 22.37 | 2.61 |
| 4.400 | 3.48 | 10.400 | 9.58   | 16.400 | 4.35 | 22.40 | 2.61 |
| 4.433 | 3.48 | 10.433 | 9.58   | 16.433 | 4.35 | 22.43 | 1.74 |
| 4.467 | 3.48 | 10.467 | 9.58   | 16.467 | 4.35 | 22.47 | 1.74 |
| 4.500 | 3.48 | 10.500 | 9.58   | 16.500 | 4.35 | 22.50 | 1.74 |
| 4.533 | 3.48 | 10.533 | 9.58   | 16.533 | 4.35 | 22.53 | 1.74 |
| 4.567 | 3.48 | 10.567 | 9.58   | 16.567 | 4.35 | 22.57 | 1.74 |
| 4.600 | 3.48 | 10.600 | 9.58   | 16.600 | 4.35 | 22.60 | 1.74 |
| 4.633 | 3.48 | 10.633 | 9.58   | 16.633 | 4.35 | 22.63 | 2.61 |
| 4.667 | 3.48 | 10.667 | 9.58   | 16.667 | 4.35 | 22.67 | 2.61 |
| 4.700 | 3.48 | 10.700 | 9.58   | 16.700 | 4.35 | 22.70 | 2.61 |
| 4.733 | 3.48 | 10.733 | 9.58   | 16.733 | 4.35 | 22.73 | 2.61 |
| 4.767 | 3.48 | 10.767 | 9.58   | 16.767 | 4.35 | 22.77 | 2.61 |
| 4.800 | 3.48 | 10.800 | 9.58   | 16.800 | 4.35 | 22.80 | 2.61 |
| 4.833 | 3.48 | 10.833 | 9.58   | 16.833 | 2.61 | 22.83 | 1.74 |
| 4.867 | 3.48 | 10.867 | 9.58   | 16.867 | 2.61 | 22.87 | 1.74 |
| 4.900 | 3.48 | 10.900 | 9.58   | 16.900 | 2.61 | 22.90 | 1.74 |
| 4.933 | 3.48 | 10.933 | 9.58   | 16.933 | 2.61 | 22.93 | 1.74 |
| 4.967 | 3.48 | 10.967 | 9.58   | 16.967 | 2.61 | 22.97 | 1.74 |
| 5.000 | 3.48 | 11.000 | 9.58   | 17.000 | 2.61 | 23.00 | 1.74 |
| 5.033 | 3.48 | 11.033 | 13.07  | 17.033 | 2.61 | 23.03 | 1.74 |
| 5.067 | 3.48 | 11.067 | 13.07  | 17.067 | 2.61 | 23.07 | 1.74 |
| 5.100 | 3.48 | 11.100 | 13.07  | 17.100 | 2.61 | 23.10 | 1.74 |
| 5.133 | 3.48 | 11.133 | 13.07  | 17.133 | 2.61 | 23.13 | 1.74 |
| 5.167 | 3.48 | 11.167 | 13.07  | 17.167 | 2.61 | 23.17 | 1.74 |
| 5.200 | 3.48 | 11.200 | 13.07  | 17.200 | 2.62 | 23.20 | 1.74 |
| 5.233 | 3.48 | 11.233 | 19.16  | 17.233 | 3.48 | 23.23 | 1.74 |
| 5.267 | 3.48 | 11.267 | 19.16  | 17.267 | 3.48 | 23.27 | 1.74 |
| 5.300 | 3.48 | 11.300 | 19.16  | 17.300 | 3.48 | 23.30 | 1.74 |
| 5.333 | 3.48 | 11.333 | 19.16  | 17.333 | 3.48 | 23.33 | 1.74 |
| 5.367 | 3.48 | 11.367 | 19.16  | 17.367 | 3.48 | 23.37 | 1.74 |
| 5.400 | 3.48 | 11.400 | 19.19  | 17.400 | 3.48 | 23.40 | 1.74 |
| 5.433 | 3.48 | 11.433 | 46.16  | 17.433 | 2.61 | 23.43 | 2.61 |
| 5.467 | 3.48 | 11.467 | 46.16  | 17.467 | 2.61 | 23.47 | 2.61 |
| 5.500 | 3.48 | 11.500 | 46.16  | 17.500 | 2.61 | 23.50 | 2.61 |
| 5.533 | 3.48 | 11.533 | 46.16  | 17.533 | 2.61 | 23.53 | 2.61 |
| 5.567 | 3.48 | 11.567 | 46.16  | 17.567 | 2.61 | 23.57 | 2.61 |
| 5.600 | 3.48 | 11.600 | 46.22  | 17.600 | 2.61 | 23.60 | 2.61 |
| 5.633 | 3.48 | 11.633 | 95.81  | 17.633 | 3.48 | 23.63 | 1.74 |
| 5.667 | 3.48 | 11.667 | 95.81  | 17.667 | 3.48 | 23.67 | 1.74 |
| 5.700 | 3.48 | 11.700 | 95.81  | 17.700 | 3.48 | 23.70 | 1.74 |
| 5.733 | 3.48 | 11.733 | 95.81  | 17.733 | 3.48 | 23.73 | 1.74 |
| 5.767 | 3.48 | 11.767 | 95.81  | 17.767 | 3.48 | 23.77 | 1.74 |
| 5.800 | 3.48 | 11.800 | 95.94  | 17.800 | 3.48 | 23.80 | 1.74 |
| 5.833 | 3.48 | 11.833 | 195.98 | 17.833 | 2.61 | 23.83 | 1.74 |
| 5.867 | 3.48 | 11.867 | 195.98 | 17.867 | 2.61 | 23.87 | 1.74 |
| 5.900 | 3.48 | 11.900 | 195.98 | 17.900 | 2.61 | 23.90 | 1.74 |
| 5.933 | 3.48 | 11.933 | 195.98 | 17.933 | 2.61 | 23.93 | 1.74 |
| 5.967 | 3.48 | 11.967 | 195.98 | 17.967 | 2.61 | 23.97 | 1.74 |
| 6.000 | 3.48 | 12.000 | 195.75 | 18.000 | 2.61 | 24.00 | 1.74 |

RUNOFF VOLUME (mm)= 102.324  
TOTAL RAINFALL (mm)= 174.199  
RUNOFF COEFFICIENT = 0.587

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |  |      |       |       |        |
|-------------------|--|------|-------|-------|--------|
| ADD HYD ( 0032 )  |  |      |       |       |        |
| 1 + 2 = 3         |  |      |       |       |        |
|                   |  | AREA | QPEAK | TPEAK | R.V.   |
|                   |  | (ha) | (cms) | (hrs) | (mm)   |
| ID1= 1 ( 0501):   |  | 8.72 | 1.375 | 12.30 | 102.32 |
| + ID2= 2 ( 0502): |  | 0.53 | 0.126 | 12.10 | 102.32 |
| =====             |  |      |       |       |        |
| ID = 3 ( 0032):   |  | 9.25 | 1.467 | 12.30 | 102.32 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |  |       |       |       |        |
|-------------------|--|-------|-------|-------|--------|
| ADD HYD ( 0033 )  |  |       |       |       |        |
| 1 + 2 = 3         |  |       |       |       |        |
|                   |  | AREA  | QPEAK | TPEAK | R.V.   |
|                   |  | (ha)  | (cms) | (hrs) | (mm)   |
| ID1= 1 ( 0201):   |  | 5.08  | 0.990 | 14.27 | 118.22 |
| + ID2= 2 ( 0032): |  | 9.25  | 1.467 | 12.30 | 102.32 |
| =====             |  |       |       |       |        |
| ID = 3 ( 0033):   |  | 14.33 | 1.542 | 12.30 | 107.96 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |  |               |       |      |                           |
|-------------------|--|---------------|-------|------|---------------------------|
| CALIB             |  |               |       |      |                           |
| NASHDY ( 0401 )   |  |               |       |      |                           |
|                   |  | Area          | (ha)= | 5.97 | Curve Number (CN)= 81.0   |
|                   |  | Ia            | (mm)= | 6.90 | # of Linear Res.(N)= 3.00 |
| ID= 1 DT= 2.0 min |  | U.H. Tp(hrs)= | 0.16  |      |                           |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                              | 1.74  | 6.033 | 3.48  | 12.033 | 34.84 | 18.03 | 2.61  |
| 0.067                              | 1.74  | 6.067 | 3.48  | 12.067 | 34.84 | 18.07 | 2.61  |
| 0.100                              | 1.74  | 6.100 | 3.48  | 12.100 | 34.84 | 18.10 | 2.61  |
| 0.133                              | 1.74  | 6.133 | 3.48  | 12.133 | 34.84 | 18.13 | 2.61  |
| 0.167                              | 1.74  | 6.167 | 3.48  | 12.167 | 34.84 | 18.17 | 2.61  |
| 0.200                              | 1.74  | 6.200 | 3.48  | 12.200 | 34.82 | 18.20 | 2.61  |
| 0.233                              | 1.74  | 6.233 | 3.48  | 12.233 | 21.78 | 18.23 | 2.61  |
| 0.267                              | 1.74  | 6.267 | 3.48  | 12.267 | 21.78 | 18.27 | 2.61  |
| 0.300                              | 1.74  | 6.300 | 3.48  | 12.300 | 21.78 | 18.30 | 2.61  |
| 0.333                              | 1.74  | 6.333 | 3.48  | 12.333 | 21.78 | 18.33 | 2.61  |
| 0.367                              | 1.74  | 6.367 | 3.48  | 12.367 | 21.78 | 18.37 | 2.61  |
| 0.400                              | 1.74  | 6.400 | 3.48  | 12.400 | 21.78 | 18.40 | 2.61  |
| 0.433                              | 1.74  | 6.433 | 3.48  | 12.433 | 15.68 | 18.43 | 3.48  |
| 0.467                              | 1.74  | 6.467 | 3.48  | 12.467 | 15.68 | 18.47 | 3.48  |
| 0.500                              | 1.74  | 6.500 | 3.48  | 12.500 | 15.68 | 18.50 | 3.48  |
| 0.533                              | 1.74  | 6.533 | 3.48  | 12.533 | 15.68 | 18.53 | 3.48  |
| 0.567                              | 1.74  | 6.567 | 3.48  | 12.567 | 15.68 | 18.57 | 3.48  |
| 0.600                              | 1.74  | 6.600 | 3.48  | 12.600 | 15.68 | 18.60 | 3.48  |
| 0.633                              | 1.74  | 6.633 | 3.48  | 12.633 | 14.81 | 18.63 | 2.61  |
| 0.667                              | 1.74  | 6.667 | 3.48  | 12.667 | 14.81 | 18.67 | 2.61  |
| 0.700                              | 1.74  | 6.700 | 3.48  | 12.700 | 14.81 | 18.70 | 2.61  |
| 0.733                              | 1.74  | 6.733 | 3.48  | 12.733 | 14.81 | 18.73 | 2.61  |
| 0.767                              | 1.74  | 6.767 | 3.48  | 12.767 | 14.81 | 18.77 | 2.61  |
| 0.800                              | 1.74  | 6.800 | 3.48  | 12.800 | 14.80 | 18.80 | 2.61  |
| 0.833                              | 1.74  | 6.833 | 3.48  | 12.833 | 10.45 | 18.83 | 2.61  |
| 0.867                              | 1.74  | 6.867 | 3.48  | 12.867 | 10.45 | 18.87 | 2.61  |
| 0.900                              | 1.74  | 6.900 | 3.48  | 12.900 | 10.45 | 18.90 | 2.61  |
| 0.933                              | 1.74  | 6.933 | 3.48  | 12.933 | 10.45 | 18.93 | 2.61  |
| 0.967                              | 1.74  | 6.967 | 3.48  | 12.967 | 10.45 | 18.97 | 2.61  |
| 1.000                              | 1.74  | 7.000 | 3.48  | 13.000 | 10.45 | 19.00 | 2.61  |
| 1.033                              | 1.74  | 7.033 | 3.48  | 13.033 | 8.71  | 19.03 | 3.48  |
| 1.067                              | 1.74  | 7.067 | 3.48  | 13.067 | 8.71  | 19.07 | 3.48  |
| 1.100                              | 1.74  | 7.100 | 3.48  | 13.100 | 8.71  | 19.10 | 3.48  |
| 1.133                              | 1.74  | 7.133 | 3.48  | 13.133 | 8.71  | 19.13 | 3.48  |
| 1.167                              | 1.74  | 7.167 | 3.48  | 13.167 | 8.71  | 19.17 | 3.48  |
| 1.200                              | 1.74  | 7.200 | 3.48  | 13.200 | 8.71  | 19.20 | 3.48  |
| 1.233                              | 1.74  | 7.233 | 3.48  | 13.233 | 8.71  | 19.23 | 2.61  |
| 1.267                              | 1.74  | 7.267 | 3.48  | 13.267 | 8.71  | 19.27 | 2.61  |
| 1.300                              | 1.74  | 7.300 | 3.48  | 13.300 | 8.71  | 19.30 | 2.61  |
| 1.333                              | 1.74  | 7.333 | 3.48  | 13.333 | 8.71  | 19.33 | 2.61  |
| 1.367                              | 1.74  | 7.367 | 3.48  | 13.367 | 8.71  | 19.37 | 2.61  |
| 1.400                              | 1.74  | 7.400 | 3.48  | 13.400 | 8.71  | 19.40 | 2.61  |
| 1.433                              | 1.74  | 7.433 | 3.48  | 13.433 | 8.71  | 19.43 | 3.48  |
| 1.467                              | 1.74  | 7.467 | 3.48  | 13.467 | 8.71  | 19.47 | 3.48  |
| 1.500                              | 1.74  | 7.500 | 3.48  | 13.500 | 8.71  | 19.50 | 3.48  |
| 1.533                              | 1.74  | 7.533 | 3.48  | 13.533 | 8.71  | 19.53 | 3.48  |
| 1.567                              | 1.74  | 7.567 | 3.48  | 13.567 | 8.71  | 19.57 | 3.48  |
| 1.600                              | 1.74  | 7.600 | 3.48  | 13.600 | 8.71  | 19.60 | 3.48  |
| 1.633                              | 1.74  | 7.633 | 3.48  | 13.633 | 8.71  | 19.63 | 2.61  |
| 1.667                              | 1.74  | 7.667 | 3.48  | 13.667 | 8.71  | 19.67 | 2.61  |
| 1.700                              | 1.74  | 7.700 | 3.48  | 13.700 | 8.71  | 19.70 | 2.61  |
| 1.733                              | 1.74  | 7.733 | 3.48  | 13.733 | 8.71  | 19.73 | 2.61  |
| 1.767                              | 1.74  | 7.767 | 3.48  | 13.767 | 8.71  | 19.77 | 2.61  |
| 1.800                              | 1.74  | 7.800 | 3.48  | 13.800 | 8.71  | 19.80 | 2.61  |
| 1.833                              | 1.74  | 7.833 | 3.48  | 13.833 | 8.71  | 19.83 | 3.48  |
| 1.867                              | 1.74  | 7.867 | 3.48  | 13.867 | 8.71  | 19.87 | 3.48  |
| 1.900                              | 1.74  | 7.900 | 3.48  | 13.900 | 8.71  | 19.90 | 3.48  |
| 1.933                              | 1.74  | 7.933 | 3.48  | 13.933 | 8.71  | 19.93 | 3.48  |
| 1.967                              | 1.74  | 7.967 | 3.48  | 13.967 | 8.71  | 19.97 | 3.48  |
| 2.000                              | 1.74  | 8.000 | 3.48  | 14.000 | 8.70  | 20.00 | 3.48  |
| 2.033                              | 1.74  | 8.033 | 5.23  | 14.033 | 5.23  | 20.03 | 2.61  |
| 2.067                              | 1.74  | 8.067 | 5.23  | 14.067 | 5.23  | 20.07 | 2.61  |
| 2.100                              | 1.74  | 8.100 | 5.23  | 14.100 | 5.23  | 20.10 | 2.61  |
| 2.133                              | 1.74  | 8.133 | 5.23  | 14.133 | 5.23  | 20.13 | 2.61  |
| 2.167                              | 1.74  | 8.167 | 5.23  | 14.167 | 5.23  | 20.17 | 2.61  |
| 2.200                              | 1.74  | 8.200 | 5.23  | 14.200 | 5.23  | 20.20 | 2.61  |
| 2.233                              | 1.74  | 8.233 | 5.23  | 14.233 | 5.23  | 20.23 | 2.61  |
| 2.267                              | 1.74  | 8.267 | 5.23  | 14.267 | 5.23  | 20.27 | 2.61  |
| 2.300                              | 1.74  | 8.300 | 5.23  | 14.300 | 5.23  | 20.30 | 2.61  |
| 2.333                              | 1.74  | 8.333 | 5.23  | 14.333 | 5.23  | 20.33 | 2.61  |
| 2.367                              | 1.74  | 8.367 | 5.23  | 14.367 | 5.23  | 20.37 | 2.61  |
| 2.400                              | 1.74  | 8.400 | 5.23  | 14.400 | 5.23  | 20.40 | 2.61  |
| 2.433                              | 1.74  | 8.433 | 5.23  | 14.433 | 5.23  | 20.43 | 1.74  |
| 2.467                              | 1.74  | 8.467 | 5.23  | 14.467 | 5.23  | 20.47 | 1.74  |
| 2.500                              | 1.74  | 8.500 | 5.23  | 14.500 | 5.23  | 20.50 | 1.74  |
| 2.533                              | 1.74  | 8.533 | 5.23  | 14.533 | 5.23  | 20.53 | 1.74  |
| 2.567                              | 1.74  | 8.567 | 5.23  | 14.567 | 5.23  | 20.57 | 1.74  |
| 2.600                              | 1.74  | 8.600 | 5.23  | 14.600 | 5.23  | 20.60 | 1.74  |
| 2.633                              | 1.74  | 8.633 | 5.23  | 14.633 | 5.23  | 20.63 | 2.61  |
| 2.667                              | 1.74  | 8.667 | 5.23  | 14.667 | 5.23  | 20.67 | 2.61  |
| 2.700                              | 1.74  | 8.700 | 5.23  | 14.700 | 5.23  | 20.70 | 2.61  |
| 2.733                              | 1.74  | 8.733 | 5.23  | 14.733 | 5.23  | 20.73 | 2.61  |
| 2.767                              | 1.74  | 8.767 | 5.23  | 14.767 | 5.23  | 20.77 | 2.61  |
| 2.800                              | 1.74  | 8.800 | 5.23  | 14.800 | 5.23  | 20.80 | 2.61  |



|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 4.500 | 3.48 | 10.500 | 9.58   | 16.500 | 4.35 | 22.50 | 1.74 |
| 4.533 | 3.48 | 10.533 | 9.58   | 16.533 | 4.35 | 22.53 | 1.74 |
| 4.567 | 3.48 | 10.567 | 9.58   | 16.567 | 4.35 | 22.57 | 1.74 |
| 4.600 | 3.48 | 10.600 | 9.58   | 16.600 | 4.35 | 22.60 | 1.74 |
| 4.633 | 3.48 | 10.633 | 9.58   | 16.633 | 4.35 | 22.63 | 2.61 |
| 4.667 | 3.48 | 10.667 | 9.58   | 16.667 | 4.35 | 22.67 | 2.61 |
| 4.700 | 3.48 | 10.700 | 9.58   | 16.700 | 4.35 | 22.70 | 2.61 |
| 4.733 | 3.48 | 10.733 | 9.58   | 16.733 | 4.35 | 22.73 | 2.61 |
| 4.767 | 3.48 | 10.767 | 9.58   | 16.767 | 4.35 | 22.77 | 2.61 |
| 4.800 | 3.48 | 10.800 | 9.58   | 16.800 | 4.35 | 22.80 | 2.61 |
| 4.833 | 3.48 | 10.833 | 9.58   | 16.833 | 2.61 | 22.83 | 1.74 |
| 4.867 | 3.48 | 10.867 | 9.58   | 16.867 | 2.61 | 22.87 | 1.74 |
| 4.900 | 3.48 | 10.900 | 9.58   | 16.900 | 2.61 | 22.90 | 1.74 |
| 4.933 | 3.48 | 10.933 | 9.58   | 16.933 | 2.61 | 22.93 | 1.74 |
| 4.967 | 3.48 | 10.967 | 9.58   | 16.967 | 2.61 | 22.97 | 1.74 |
| 5.000 | 3.48 | 11.000 | 9.58   | 17.000 | 2.61 | 23.00 | 1.74 |
| 5.033 | 3.48 | 11.033 | 13.07  | 17.033 | 2.61 | 23.03 | 1.74 |
| 5.067 | 3.48 | 11.067 | 13.07  | 17.067 | 2.61 | 23.07 | 1.74 |
| 5.100 | 3.48 | 11.100 | 13.07  | 17.100 | 2.61 | 23.10 | 1.74 |
| 5.133 | 3.48 | 11.133 | 13.07  | 17.133 | 2.61 | 23.13 | 1.74 |
| 5.167 | 3.48 | 11.167 | 13.07  | 17.167 | 2.61 | 23.17 | 1.74 |
| 5.200 | 3.48 | 11.200 | 13.07  | 17.200 | 2.62 | 23.20 | 1.74 |
| 5.233 | 3.48 | 11.233 | 19.16  | 17.233 | 3.48 | 23.23 | 1.74 |
| 5.267 | 3.48 | 11.267 | 19.16  | 17.267 | 3.48 | 23.27 | 1.74 |
| 5.300 | 3.48 | 11.300 | 19.16  | 17.300 | 3.48 | 23.30 | 1.74 |
| 5.333 | 3.48 | 11.333 | 19.16  | 17.333 | 3.48 | 23.33 | 1.74 |
| 5.367 | 3.48 | 11.367 | 19.16  | 17.367 | 3.48 | 23.37 | 1.74 |
| 5.400 | 3.48 | 11.400 | 19.19  | 17.400 | 3.48 | 23.40 | 1.74 |
| 5.433 | 3.48 | 11.433 | 46.16  | 17.433 | 2.61 | 23.43 | 2.61 |
| 5.467 | 3.48 | 11.467 | 46.16  | 17.467 | 2.61 | 23.47 | 2.61 |
| 5.500 | 3.48 | 11.500 | 46.16  | 17.500 | 2.61 | 23.50 | 2.61 |
| 5.533 | 3.48 | 11.533 | 46.16  | 17.533 | 2.61 | 23.53 | 2.61 |
| 5.567 | 3.48 | 11.567 | 46.16  | 17.567 | 2.61 | 23.57 | 2.61 |
| 5.600 | 3.48 | 11.600 | 46.22  | 17.600 | 2.61 | 23.60 | 2.61 |
| 5.633 | 3.48 | 11.633 | 95.81  | 17.633 | 3.48 | 23.63 | 1.74 |
| 5.667 | 3.48 | 11.667 | 95.81  | 17.667 | 3.48 | 23.67 | 1.74 |
| 5.700 | 3.48 | 11.700 | 95.81  | 17.700 | 3.48 | 23.70 | 1.74 |
| 5.733 | 3.48 | 11.733 | 95.81  | 17.733 | 3.48 | 23.73 | 1.74 |
| 5.767 | 3.48 | 11.767 | 95.81  | 17.767 | 3.48 | 23.77 | 1.74 |
| 5.800 | 3.48 | 11.800 | 95.94  | 17.800 | 3.48 | 23.80 | 1.74 |
| 5.833 | 3.48 | 11.833 | 195.98 | 17.833 | 2.61 | 23.83 | 1.74 |
| 5.867 | 3.48 | 11.867 | 195.98 | 17.867 | 2.61 | 23.87 | 1.74 |
| 5.900 | 3.48 | 11.900 | 195.98 | 17.900 | 2.61 | 23.90 | 1.74 |
| 5.933 | 3.48 | 11.933 | 195.98 | 17.933 | 2.61 | 23.93 | 1.74 |
| 5.967 | 3.48 | 11.967 | 195.98 | 17.967 | 2.61 | 23.97 | 1.74 |
| 6.000 | 3.48 | 12.000 | 195.75 | 18.000 | 2.61 | 24.00 | 1.74 |

Unit Hyd Qpeak (cms)= 1.809

PEAK FLOW (cms)= 2.550 (i)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 123.349  
TOTAL RAINFALL (mm)= 174.199  
RUNOFF COEFFICIENT = 0.708

(1) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0040)   |       |       |       |        |
|-------------------|-------|-------|-------|--------|
| 1 + 2 = 3         |       |       |       |        |
|                   | AREA  | QPEAK | TPEAK | R.V.   |
|                   | (ha)  | (cms) | (hrs) | (mm)   |
| ID1= 1 ( 0401):   | 5.97  | 2.008 | 12.07 | 123.35 |
| + ID2= 2 ( 0402): | 7.58  | 2.550 | 12.07 | 123.35 |
| =====             |       |       |       |        |
| ID = 3 ( 0040):   | 13.55 | 4.559 | 12.07 | 123.35 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB             |               |       |                      |      |
|-------------------|---------------|-------|----------------------|------|
| NASHYD ( 0403)    |               |       |                      |      |
| ID= 1 DT= 2.0 min |               |       |                      |      |
|                   | Area          | (ha)= | Curve Number (CN)=   | 81.0 |
|                   | Ia            | (mm)= | # of Linear Res.(N)= | 3.00 |
|                   | U.H. Tp(hrs)= | 0.15  |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |       |       |       |        |       |       |       |
|--------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                           | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                            | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                          | 1.74  | 6.033 | 3.48  | 12.033 | 34.84 | 18.03 | 2.61  |
| 0.067                          | 1.74  | 6.067 | 3.48  | 12.067 | 34.84 | 18.07 | 2.61  |
| 0.100                          | 1.74  | 6.100 | 3.48  | 12.100 | 34.84 | 18.10 | 2.61  |
| 0.133                          | 1.74  | 6.133 | 3.48  | 12.133 | 34.84 | 18.13 | 2.61  |
| 0.167                          | 1.74  | 6.167 | 3.48  | 12.167 | 34.84 | 18.17 | 2.61  |
| 0.200                          | 1.74  | 6.200 | 3.48  | 12.200 | 34.82 | 18.20 | 2.61  |
| 0.233                          | 1.74  | 6.233 | 3.48  | 12.233 | 21.78 | 18.23 | 2.61  |
| 0.267                          | 1.74  | 6.267 | 3.48  | 12.267 | 21.78 | 18.27 | 2.61  |
| 0.300                          | 1.74  | 6.300 | 3.48  | 12.300 | 21.78 | 18.30 | 2.61  |
| 0.333                          | 1.74  | 6.333 | 3.48  | 12.333 | 21.78 | 18.33 | 2.61  |
| 0.367                          | 1.74  | 6.367 | 3.48  | 12.367 | 21.78 | 18.37 | 2.61  |
| 0.400                          | 1.74  | 6.400 | 3.48  | 12.400 | 21.77 | 18.40 | 2.61  |
| 0.433                          | 1.74  | 6.433 | 3.48  | 12.433 | 15.68 | 18.43 | 3.48  |
| 0.467                          | 1.74  | 6.467 | 3.48  | 12.467 | 15.68 | 18.47 | 3.48  |
| 0.500                          | 1.74  | 6.500 | 3.48  | 12.500 | 15.68 | 18.50 | 3.48  |
| 0.533                          | 1.74  | 6.533 | 3.48  | 12.533 | 15.68 | 18.53 | 3.48  |
| 0.567                          | 1.74  | 6.567 | 3.48  | 12.567 | 15.68 | 18.57 | 3.48  |
| 0.600                          | 1.74  | 6.600 | 3.48  | 12.600 | 15.68 | 18.60 | 3.48  |
| 0.633                          | 1.74  | 6.633 | 3.48  | 12.633 | 14.81 | 18.63 | 2.61  |
| 0.667                          | 1.74  | 6.667 | 3.48  | 12.667 | 14.81 | 18.67 | 2.61  |
| 0.700                          | 1.74  | 6.700 | 3.48  | 12.700 | 14.81 | 18.70 | 2.61  |
| 0.733                          | 1.74  | 6.733 | 3.48  | 12.733 | 14.81 | 18.73 | 2.61  |
| 0.767                          | 1.74  | 6.767 | 3.48  | 12.767 | 14.81 | 18.77 | 2.61  |
| 0.800                          | 1.74  | 6.800 | 3.48  | 12.800 | 14.80 | 18.80 | 2.61  |
| 0.833                          | 1.74  | 6.833 | 3.48  | 12.833 | 10.45 | 18.83 | 2.61  |
| 0.867                          | 1.74  | 6.867 | 3.48  | 12.867 | 10.45 | 18.87 | 2.61  |
| 0.900                          | 1.74  | 6.900 | 3.48  | 12.900 | 10.45 | 18.90 | 2.61  |
| 0.933                          | 1.74  | 6.933 | 3.48  | 12.933 | 10.45 | 18.93 | 2.61  |
| 0.967                          | 1.74  | 6.967 | 3.48  | 12.967 | 10.45 | 18.97 | 2.61  |
| 1.000                          | 1.74  | 7.000 | 3.48  | 13.000 | 10.45 | 19.00 | 2.61  |
| 1.033                          | 1.74  | 7.033 | 3.48  | 13.033 | 8.71  | 19.03 | 3.48  |
| 1.067                          | 1.74  | 7.067 | 3.48  | 13.067 | 8.71  | 19.07 | 3.48  |
| 1.100                          | 1.74  | 7.100 | 3.48  | 13.100 | 8.71  | 19.10 | 3.48  |
| 1.133                          | 1.74  | 7.133 | 3.48  | 13.133 | 8.71  | 19.13 | 3.48  |
| 1.167                          | 1.74  | 7.167 | 3.48  | 13.167 | 8.71  | 19.17 | 3.48  |
| 1.200                          | 1.74  | 7.200 | 3.48  | 13.200 | 8.71  | 19.20 | 3.48  |
| 1.233                          | 1.74  | 7.233 | 3.48  | 13.233 | 8.71  | 19.23 | 2.61  |
| 1.267                          | 1.74  | 7.267 | 3.48  | 13.267 | 8.71  | 19.27 | 2.61  |
| 1.300                          | 1.74  | 7.300 | 3.48  | 13.300 | 8.71  | 19.30 | 2.61  |
| 1.333                          | 1.74  | 7.333 | 3.48  | 13.333 | 8.71  | 19.33 | 2.61  |
| 1.367                          | 1.74  | 7.367 | 3.48  | 13.367 | 8.71  | 19.37 | 2.61  |
| 1.400                          | 1.74  | 7.400 | 3.48  | 13.400 | 8.71  | 19.40 | 2.61  |
| 1.433                          | 1.74  | 7.433 | 3.48  | 13.433 | 8.71  | 19.43 | 3.48  |
| 1.467                          | 1.74  | 7.467 | 3.48  | 13.467 | 8.71  | 19.47 | 3.48  |
| 1.500                          | 1.74  | 7.500 | 3.48  | 13.500 | 8.71  | 19.50 | 3.48  |

|       |      |       |      |        |      |       |      |
|-------|------|-------|------|--------|------|-------|------|
| 1.533 | 1.74 | 7.533 | 3.48 | 13.533 | 8.71 | 19.53 | 3.48 |
| 1.567 | 1.74 | 7.567 | 3.48 | 13.567 | 8.71 | 19.57 | 3.48 |
| 1.600 | 1.74 | 7.600 | 3.48 | 13.600 | 8.71 | 19.60 | 3.48 |
| 1.633 | 1.74 | 7.633 | 3.48 | 13.633 | 8.71 | 19.63 | 2.61 |
| 1.667 | 1.74 | 7.667 | 3.48 | 13.667 | 8.71 | 19.67 | 2.61 |
| 1.700 | 1.74 | 7.700 | 3.48 | 13.700 | 8.71 | 19.70 | 2.61 |
| 1.733 | 1.74 | 7.733 | 3.48 | 13.733 | 8.71 | 19.73 | 2.61 |
| 1.767 | 1.74 | 7.767 | 3.48 | 13.767 | 8.71 | 19.77 | 2.61 |
| 1.800 | 1.74 | 7.800 | 3.48 | 13.800 | 8.71 | 19.80 | 2.61 |
| 1.833 | 1.74 | 7.833 | 3.48 | 13.833 | 8.71 | 19.83 | 3.48 |
| 1.867 | 1.74 | 7.867 | 3.48 | 13.867 | 8.71 | 19.87 | 3.48 |
| 1.900 | 1.74 | 7.900 | 3.48 | 13.900 | 8.71 | 19.90 | 3.48 |
| 1.933 | 1.74 | 7.933 | 3.48 | 13.933 | 8.71 | 19.93 | 3.48 |
| 1.967 | 1.74 | 7.967 | 3.48 | 13.967 | 8.71 | 19.97 | 3.48 |
| 2.000 | 1.74 | 8.000 | 3.48 | 14.000 | 8.70 | 20.00 | 3.48 |
| 2.033 | 1.74 | 8.033 | 5.23 | 14.033 | 5.23 | 20.03 | 2.61 |
| 2.067 | 1.74 | 8.067 | 5.23 | 14.067 | 5.23 | 20.07 | 2.61 |
| 2.100 | 1.74 | 8.100 | 5.23 | 14.100 | 5.23 | 20.10 | 2.61 |
| 2.133 | 1.74 | 8.133 | 5.23 | 14.133 | 5.23 | 20.13 | 2.61 |
| 2.167 | 1.74 | 8.167 | 5.23 | 14.167 | 5.23 | 20.17 | 2.61 |
| 2.200 | 1.74 | 8.200 | 5.23 | 14.200 | 5.23 | 20.20 | 2.61 |
| 2.233 | 1.74 | 8.233 | 5.23 | 14.233 | 5.23 | 20.23 | 2.61 |
| 2.267 | 1.74 | 8.267 | 5.23 | 14.267 | 5.23 | 20.27 | 2.61 |
| 2.300 | 1.74 | 8.300 | 5.23 | 14.300 | 5.23 | 20.30 | 2.61 |
| 2.333 | 1.74 | 8.333 | 5.23 | 14.333 | 5.23 | 20.33 | 2.61 |
| 2.367 | 1.74 | 8.367 | 5.23 | 14.367 | 5.23 | 20.37 | 2.61 |
| 2.400 | 1.74 | 8.400 | 5.23 | 14.400 | 5.23 | 20.40 | 2.61 |
| 2.433 | 1.74 | 8.433 | 5.23 | 14.433 | 5.23 | 20.43 | 1.74 |
| 2.467 | 1.74 | 8.467 | 5.23 | 14.467 | 5.23 | 20.47 | 1.74 |
| 2.500 | 1.74 | 8.500 | 5.23 | 14.500 | 5.23 | 20.50 | 1.74 |
| 2.533 | 1.74 | 8.533 | 5.23 | 14.533 | 5.23 | 20.53 | 1.74 |
| 2.567 | 1.74 | 8.567 | 5.23 | 14.567 | 5.23 | 20.57 | 1.74 |
| 2.600 | 1.74 | 8.600 | 5.23 | 14.600 | 5.23 | 20.60 | 1.74 |
| 2.633 | 1.74 | 8.633 | 5.23 | 14.633 | 5.23 | 20.63 | 2.61 |
| 2.667 | 1.74 | 8.667 | 5.23 | 14.667 | 5.23 | 20.67 | 2.61 |
| 2.700 | 1.74 | 8.700 | 5.23 | 14.700 | 5.23 | 20.70 | 2.61 |
| 2.733 | 1.74 | 8.733 | 5.23 | 14.733 | 5.23 | 20.73 | 2.61 |
| 2.767 | 1.74 | 8.767 | 5.23 | 14.767 | 5.23 | 20.77 | 2.61 |
| 2.800 | 1.74 | 8.800 | 5.23 | 14.800 | 5.23 | 20.80 | 2.61 |
| 2.833 | 1.74 | 8.833 | 5.23 | 14.833 | 5.23 | 20.83 | 2.61 |
| 2.867 | 1.74 | 8.867 | 5.23 | 14.867 | 5.23 | 20.87 | 2.61 |

5.767 3.48 11.767 95.81 17.767 3.48 23.77 1.74  
5.800 3.48 11.800 95.94 17.800 3.48 23.80 1.74  
5.833 3.48 11.833 195.98 17.833 2.61 23.83 1.74  
5.867 3.48 11.867 195.98 17.867 2.61 23.87 1.74  
5.900 3.48 11.900 195.98 17.900 2.61 23.90 1.74  
5.933 3.48 11.933 195.98 17.933 2.61 23.93 1.74  
5.967 3.48 11.967 195.98 17.967 2.61 23.97 1.74  
6.000 3.48 12.000 195.75 18.000 2.61 24.00 1.74

Unit Hyd Qpeak (cms)= 0.731

PEAK FLOW (cms)= 0.996 (i)  
TIME TO PEAK (hrs)= 12.033  
RUNOFF VOLUME (mm)= 123.437  
TOTAL RAINFALL (mm)= 174.199  
RUNOFF COEFFICIENT = 0.709

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB ( )  
NASHYD ( 0404 )  
ID= 1 DT= 2.0 min  
Area (ha)= 0.85 Curve Number (CN)= 86.0  
Ia (mm)= 4.80 # of Linear Res. (N)= 3.00  
U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.033 1.74 6.033 3.48 12.033 34.84 18.03 2.61  
0.067 1.74 6.067 3.48 12.067 34.84 18.07 2.61  
0.100 1.74 6.100 3.48 12.100 34.84 18.10 2.61  
0.133 1.74 6.133 3.48 12.133 34.84 18.13 2.61  
0.167 1.74 6.167 3.48 12.167 34.84 18.17 2.61  
0.200 1.74 6.200 3.48 12.200 34.82 18.20 2.61  
0.233 1.74 6.233 3.48 12.233 21.78 18.23 2.61  
0.267 1.74 6.267 3.48 12.267 21.78 18.27 2.61  
0.300 1.74 6.300 3.48 12.300 21.78 18.30 2.61  
0.333 1.74 6.333 3.48 12.333 21.78 18.33 2.61  
0.367 1.74 6.367 3.48 12.367 21.78 18.37 2.61  
0.400 1.74 6.400 3.48 12.400 21.77 18.40 2.61  
0.433 1.74 6.433 3.48 12.433 15.68 18.43 3.48  
0.467 1.74 6.467 3.48 12.467 15.68 18.47 3.48  
0.500 1.74 6.500 3.48 12.500 15.68 18.50 3.48  
0.533 1.74 6.533 3.48 12.533 15.68 18.53 3.48  
0.567 1.74 6.567 3.48 12.567 15.68 18.57 3.48  
0.600 1.74 6.600 3.48 12.600 15.68 18.60 3.48  
0.633 1.74 6.633 3.48 12.633 14.81 18.63 2.61  
0.667 1.74 6.667 3.48 12.667 14.81 18.67 2.61  
0.700 1.74 6.700 3.48 12.700 14.81 18.70 2.61  
0.733 1.74 6.733 3.48 12.733 14.81 18.73 2.61  
0.767 1.74 6.767 3.48 12.767 14.81 18.77 2.61  
0.800 1.74 6.800 3.48 12.800 14.80 18.80 2.61  
0.833 1.74 6.833 3.48 12.833 10.45 18.83 2.61  
0.867 1.74 6.867 3.48 12.867 10.45 18.87 2.61  
0.900 1.74 6.900 3.48 12.900 10.45 18.90 2.61  
0.933 1.74 6.933 3.48 12.933 10.45 18.93 2.61  
0.967 1.74 6.967 3.48 12.967 9.45 18.97 2.61  
1.000 1.74 7.000 3.48 13.000 10.45 19.00 2.61  
1.033 1.74 7.033 3.48 13.033 8.71 19.03 3.48  
1.067 1.74 7.067 3.48 13.067 8.71 19.07 3.48  
1.100 1.74 7.100 3.48 13.100 8.71 19.10 3.48  
1.133 1.74 7.133 3.48 13.133 8.71 19.13 3.48  
1.167 1.74 7.167 3.48 13.167 8.71 19.17 3.48  
1.200 1.74 7.200 3.48 13.200 8.71 19.20 3.48  
1.233 1.74 7.233 3.48 13.233 8.71 19.23 2.61  
1.267 1.74 7.267 3.48 13.267 8.71 19.27 2.61  
1.300 1.74 7.300 3.48 13.300 8.71 19.30 2.61  
1.333 1.74 7.333 3.48 13.333 8.71 19.33 2.61  
1.367 1.74 7.367 3.48 13.367 8.71 19.37 2.61  
1.400 1.74 7.400 3.48 13.400 8.71 19.40 2.61  
1.433 1.74 7.433 3.48 13.433 8.71 19.43 3.48  
1.467 1.74 7.467 3.48 13.467 8.71 19.47 3.48  
1.500 1.74 7.500 3.48 13.500 8.71 19.50 3.48  
1.533 1.74 7.533 3.48 13.533 8.71 19.53 3.48  
1.567 1.74 7.567 3.48 13.567 8.71 19.57 3.48  
1.600 1.74 7.600 3.48 13.600 8.71 19.60 3.48  
1.633 1.74 7.633 3.48 13.633 8.71 19.63 2.61  
1.667 1.74 7.667 3.48 13.667 8.71 19.67 2.61  
1.700 1.74 7.700 3.48 13.700 8.71 19.70 2.61  
1.733 1.74 7.733 3.48 13.733 8.71 19.73 2.61  
1.767 1.74 7.767 3.48 13.767 8.71 19.77 2.61  
1.800 1.74 7.800 3.48 13.800 8.71 19.80 2.61  
1.833 1.74 7.833 3.48 13.833 8.71 19.83 3.48  
1.867 1.74 7.867 3.48 13.867 8.71 19.87 3.48  
1.900 1.74 7.900 3.48 13.900 8.71 19.90 3.48  
1.933 1.74 7.933 3.48 13.933 8.71 19.93 3.48  
1.967 1.74 7.967 3.48 13.967 8.71 19.97 3.48  
2.000 1.74 8.000 3.48 14.000 8.70 20.00 3.48  
2.033 1.74 8.033 5.23 14.033 5.23 20.03 2.61  
2.067 1.74 8.067 5.23 14.067 5.23 20.07 2.61  
2.100 1.74 8.100 5.23 14.100 5.23 20.10 2.61  
2.133 1.74 8.133 5.23 14.133 5.23 20.13 2.61  
2.167 1.74 8.167 5.23 14.167 5.23 20.17 2.61  
2.200 1.74 8.200 5.23 14.200 5.23 20.20 2.61  
2.233 1.74 8.233 5.23 14.233 5.23 20.23 2.61  
2.267 1.74 8.267 5.23 14.267 5.23 20.27 2.61  
2.300 1.74 8.300 5.23 14.300 5.23 20.30 2.61  
2.333 1.74 8.333 5.23 14.333 5.23 20.33 2.61  
2.367 1.74 8.367 5.23 14.367 5.23 20.37 2.61  
2.400 1.74 8.400 5.23 14.400 5.23 20.40 2.61  
2.433 1.74 8.433 5.23 14.433 5.23 20.43 1.74  
2.467 1.74 8.467 5.23 14.467 5.23 20.47 1.74  
2.500 1.74 8.500 5.23 14.500 5.23 20.50 1.74  
2.533 1.74 8.533 5.23 14.533 5.23 20.53 1.74  
2.567 1.74 8.567 5.23 14.567 5.23 20.57 1.74  
2.600 1.74 8.600 5.23 14.600 5.23 20.60 1.74  
2.633 1.74 8.633 5.23 14.633 5.23 20.63 2.61  
2.667 1.74 8.667 5.23 14.667 5.23 20.67 2.61  
2.700 1.74 8.700 5.23 14.700 5.23 20.70 2.61  
2.733 1.74 8.733 5.23 14.733 5.23 20.73 2.61  
2.767 1.74 8.767 5.23 14.767 5.23 20.77 2.61  
2.800 1.74 8.800 5.23 14.800 5.23 20.80 2.61  
2.833 1.74 8.833 5.23 14.833 5.23 20.83 2.61  
2.867 1.74 8.867 5.23 14.867 5.23 20.87 2.61  
2.900 1.74 8.900 5.23 14.900 5.23 20.90 2.61  
2.933 1.74 8.933 5.23 14.933 5.23 20.93 2.61  
2.967 1.74 8.967 5.23 14.967 5.23 20.97 2.61  
3.000 1.74 9.000 5.23 15.000 5.22 21.00 2.61  
3.033 1.74 9.033 5.23 15.033 4.35 21.03 1.74  
3.067 1.74 9.067 5.23 15.067 4.35 21.07 1.74  
3.100 1.74 9.100 5.23 15.100 4.35 21.10 1.74  
3.133 1.74 9.133 5.23 15.133 4.35 21.13 1.74  
3.167 1.74 9.167 5.23 15.167 4.35 21.17 1.74

3.200 1.74 9.200 5.23 15.200 4.36 21.20 1.74  
3.233 1.74 9.233 5.23 15.233 4.35 21.23 2.61  
3.267 1.74 9.267 5.23 15.267 4.35 21.27 2.61  
3.300 1.74 9.300 5.23 15.300 4.35 21.30 2.61  
3.333 1.74 9.333 5.23 15.333 4.35 21.33 2.61  
3.367 1.74 9.367 5.23 15.367 4.35 21.37 2.61  
3.400 1.74 9.400 5.23 15.400 4.36 21.40 2.61  
3.433 1.74 9.433 5.23 15.433 4.35 21.43 1.74  
3.467 1.74 9.467 5.23 15.467 4.35 21.47 1.74  
3.500 1.74 9.500 5.23 15.500 4.35 21.50 1.74  
3.533 1.74 9.533 5.23 15.533 4.35 21.53 1.74  
3.567 1.74 9.567 5.23 15.567 4.35 21.57 1.74  
3.600 1.74 9.600 5.23 15.600 4.36 21.60 1.74  
3.633 1.74 9.633 5.23 15.633 4.35 21.63 2.61  
3.667 1.74 9.667 5.23 15.667 4.35 21.67 2.61  
3.700 1.74 9.700 5.23 15.700 4.35 21.70 2.61  
3.733 1.74 9.733 5.23 15.733 4.35 21.73 2.61  
3.767 1.74 9.767 5.23 15.767 4.35 21.77 2.61  
3.800 1.74 9.800 5.23 15.800 4.36 21.80 2.61  
3.833 1.74 9.833 5.23 15.833 4.35 21.83 1.74  
3.867 1.74 9.867 5.23 15.867 4.35 21.87 1.74  
3.900 1.74 9.900 5.23 15.900 4.35 21.90 1.74  
3.933 1.74 9.933 5.23 15.933 4.35 21.93 1.74  
3.967 1.74 9.967 5.23 15.967 4.35 21.97 1.74  
4.000 1.74 10.000 5.23 16.000 4.36 22.00 1.74  
4.033 1.74 10.033 5.23 16.033 4.36 22.03 1.74  
4.067 3.48 10.067 9.58 16.067 4.36 22.07 1.74  
4.100 3.48 10.100 9.58 16.100 4.36 22.10 1.74  
4.133 3.48 10.133 9.58 16.133 4.36 22.13 1.74  
4.167 3.48 10.167 9.58 16.167 4.36 22.17 1.74  
4.200 3.48 10.200 9.58 16.200 4.35 22.20 1.74  
4.233 3.48 10.233 9.58 16.233 4.35 22.23 2.61  
4.267 3.48 10.267 9.58 16.267 4.35 22.27 2.61  
4.300 3.48 10.300 9.58 16.300 4.35 22.30 2.61  
4.333 3.48 10.333 9.58 16.333 4.35 22.33 2.61  
4.367 3.48 10.367 9.58 16.367 4.35 22.37 2.61  
4.400 3.48 10.400 9.58 16.400 4.35 22.40 2.61  
4.433 3.48 10.433 9.58 16.433 4.35 22.43 1.74  
4.467 3.48 10.467 9.58 16.467 4.35 22.47 1.74  
4.500 3.48 10.500 9.58 16.500 4.35 22.50 1.74  
4.533 3.48 10.533 9.58 16.533 4.35 22.53 1.74  
4.567 3.48 10.567 9.58 16.567 4.35 22.57 1.74  
4.600 3.48 10.600 9.58 16.600 4.35 22.60 1.74  
4.633 3.48 10.633 9.58 16.633 4.35 22.63 2.61  
4.667 3.48 10.667 9.58 16.667 4.35 22.67 2.61  
4.700 3.48 10.700 9.58 16.700 4.35 22.70 2.61  
4.733 3.48 10.733 9.58 16.733 4.35 22.73 2.61  
4.767 3.48 10.767 9.58 16.767 4.35 22.77 2.61  
4.800 3.48 10.800 9.58 16.800 4.35 22.80 2.61  
4.833 3.48 10.833 9.58 16.833 2.61 22.83 1.74  
4.867 3.48 10.867 9.58 16.867 2.61 22.87 1.74  
4.900 3.48 10.900 9.58 16.900 2.61 22.90 1.74  
4.933 3.48 10.933 9.58 16.933 2.61 22.93 1.74  
4.967 3.48 10.967 9.58 16.967 2.61 22.97 1.74  
5.000 3.48 11.000 9.58 17.000 2.61 23.00 1.74  
5.033 3.48 11.033 13.07 17.033 2.61 23.03 1.74  
5.067 3.48 11.067 13.07 17.067 2.61 23.07 1.74  
5.100 3.48 11.100 13.07 17.100 2.61 23.10 1.74  
5.133 3.48 11.133 13.07 17.133 2.61 23.13 1.74  
5.167 3.48 11.167 13.07 17.167 2.61 23.17 1.74  
5.200 3.48 11.200 13.07 17.200 2.62 23.20 1.74  
5.233 3.48 11.233 19.16 17.233 3.48 23.23 1.74  
5.267 3.48 11.267 19.16 17.267 3.48 23.27 1.74  
5.300 3.48 11.300 19.16 17.300 3.48 23.30 1.74  
5.333 3.48 11.333 19.16 17.333 3.48 23.33 1.74  
5.367 3.48 11.367 19.16 17.367 3.48 23.37 1.74  
5.400 3.48 11.400 19.19 17.400 3.48 23.40 1.74  
5.433 3.48 11.433 46.16 17.433 2.61 23.43 2.61  
5.467 3.48 11.467 46.16 17.467 2.61 23.47 2.61  
5.500 3.48 11.500 46.16 17.500 2.61 23.50 2.61  
5.533 3.48 11.533 46.16 17.533 2.61 23.53 2.61  
5.567 3.48 11.567 46.16 17.567 2.61 23.57 2.61  
5.600 3.48 11.600 46.22 17.600 2.61 23.60 2.61  
5.633 3.48 11.633 95.81 17.633 3.48 23.63 1.74  
5.667 3.48 11.667 95.81 17.667 3.48 23.67 1.74  
5.700 3.48 11.700 95.81 17.700 3.48 23.70 1.74  
5.733 3.48 11.733 95.81 17.733 3.48 23.73 1.74  
5.767 3.48 11.767 95.81 17.767 3.48 23.77 1.74  
5.800 3.48 11.800 95.94 17.800 3.48 23.80 1.74  
5.833 3.48 11.833 195.98 17.833 2.61 23.83 1.74  
5.867 3.48 11.867 195.98 17.867 2.61 23.87 1.74  
5.900 3.48 11.900 195.98 17.900 2.61 23.90 1.74  
5.933 3.48 11.933 195.98 17.933 2.61 23.93 1.74  
5.967 3.48 11.967 195.98 17.967 2.61 23.97 1.74  
6.000 3.48 12.000 195.75 18.000 2.61 24.00 1.74

Unit Hyd Qpeak (cms)= 0.162

PEAK FLOW (cms)= 0.278 (i)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 136.154  
TOTAL RAINFALL (mm)= 174.199  
RUNOFF COEFFICIENT = 0.782

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0041 )  
1 + 2 = 3  
AREA (ha) QPEAK (cms) TPEAK (hrs) R.V. (mm)  
ID1= 1 ( 0403 ): 2.87 0.996 12.03 123.44  
+ ID2= 2 ( 0404 ): 0.85 0.278 12.07 136.15  
===== ID = 3 ( 0041 ): 3.72 1.266 12.07 126.34

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD ( 0042 )  
1 + 2 = 3  
AREA (ha) QPEAK (cms) TPEAK (hrs) R.V. (mm)  
ID1= 1 ( 0040 ): 13.55 4.550 12.07 123.35  
+ ID2= 2 ( 0041 ): 3.72 1.266 12.07 126.34  
===== ID = 3 ( 0042 ): 17.27 5.824 12.07 123.99

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR( 0202 )  
DN= 2----> OUT= 1  
DT= 2.0 min  
OVERFLOW IS OFF  
OUTFLOW (cms) STORAGE (ha.m.)  
0.0000 0.0000  
OUTFLOW (cms) STORAGE (ha.m.)  
1.2780 0.5195

0.0070 0.0918 | 1.4910 0.6170  
0.0500 0.1672 | 1.7350 0.7524  
0.1740 0.2483 | 2.7110 0.8941  
0.6720 0.3349 | 5.2440 1.1182  
1.0220 0.4254 | 0.0000 0.0000

AREA QPEAK TPEAK R.V.  
(ha) (cms) (hrs) (mm)  
INFLOW : ID= 2 ( 0042) 17.270 5.824 12.07 123.99  
OUTFLOW: ID= 1 ( 0202) 17.270 2.390 12.33 121.76

PEAK FLOW REDUCTION [Qout/Qin](%)= 41.04  
TIME SHIFT OF PEAK FLOW (min)= 16.00  
MAXIMUM STORAGE USED (ha.m.)= 0.8476

ADD HYD ( 0080) |  
1 + 2 = 3 |

AREA QPEAK TPEAK R.V.  
(ha) (cms) (hrs) (mm)  
ID1= 1 ( 0202): 17.27 2.390 12.33 121.76  
+ ID2= 2 ( 0033): 14.33 1.542 12.30 107.96  
=====

ID = 3 ( 0080): 31.60 3.923 12.33 115.50

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U AAAAA L  
V V I SS U U A A L  
VV I SSSSS UUUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM  
O O T T H H Y Y MM MM O O  
O O T T H H Y Y M M O O  
000 T T H H Y Y M M 000

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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voim.dat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\0914821c-3fc9-4be4-b518-f0dd4370a15f\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\0914821c-3fc9-4be4-b518-f0dd4370a15f\sc

DATE: 09/21/2025 TIME: 03:01:37

USER:

COMMENTS:

\*\* SIMULATION : 100yr 24hr 12min SCS Type II \*\*

MASS STORM  
Filename: C:\Users\hfaulkner\AppData\Local\Temp\732e9928-e126-4c89-9ccf-fd4c260976d9\cc6e969d  
ata\Local\Temp\732e9928-e126-4c89-9ccf-fd4c260976d9\cc6e969d  
Ptotal=134.00 mm  
Comments: 24-hour SCS Type-II Mass Storm Curve

Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

| TIME | RAIN  | TIME  | RAIN   | TIME  | RAIN  | TIME  | RAIN  |
|------|-------|-------|--------|-------|-------|-------|-------|
| hrs  | mm/hr | hrs   | mm/hr  | hrs   | mm/hr | hrs   | mm/hr |
| 0.00 | 1.34  | 6.00  | 2.68   | 12.00 | 26.80 | 18.00 | 2.01  |
| 0.20 | 1.34  | 6.20  | 2.68   | 12.20 | 16.75 | 18.20 | 2.01  |
| 0.40 | 1.34  | 6.40  | 2.68   | 12.40 | 12.06 | 18.40 | 2.68  |
| 0.60 | 1.34  | 6.60  | 2.68   | 12.60 | 11.39 | 18.60 | 2.01  |
| 0.80 | 1.34  | 6.80  | 2.68   | 12.80 | 8.04  | 18.80 | 2.01  |
| 1.00 | 1.34  | 7.00  | 2.68   | 13.00 | 6.70  | 19.00 | 2.68  |
| 1.20 | 1.34  | 7.20  | 2.68   | 13.20 | 6.70  | 19.20 | 2.01  |
| 1.40 | 1.34  | 7.40  | 2.68   | 13.40 | 6.70  | 19.40 | 2.68  |
| 1.60 | 1.34  | 7.60  | 2.68   | 13.60 | 6.70  | 19.60 | 2.01  |
| 1.80 | 1.34  | 7.80  | 2.68   | 13.80 | 6.70  | 19.80 | 2.68  |
| 2.00 | 1.34  | 8.00  | 4.02   | 14.00 | 4.02  | 20.00 | 2.01  |
| 2.20 | 1.34  | 8.20  | 4.02   | 14.20 | 4.02  | 20.20 | 2.01  |
| 2.40 | 1.34  | 8.40  | 4.02   | 14.40 | 4.02  | 20.40 | 1.34  |
| 2.60 | 1.34  | 8.60  | 4.02   | 14.60 | 4.02  | 20.60 | 2.01  |
| 2.80 | 1.34  | 8.80  | 4.02   | 14.80 | 4.02  | 20.80 | 2.01  |
| 3.00 | 1.34  | 9.00  | 4.02   | 15.00 | 3.35  | 21.00 | 1.34  |
| 3.20 | 1.34  | 9.20  | 4.02   | 15.20 | 3.35  | 21.20 | 2.01  |
| 3.40 | 1.34  | 9.40  | 4.02   | 15.40 | 3.35  | 21.40 | 1.34  |
| 3.60 | 1.34  | 9.60  | 4.02   | 15.60 | 3.35  | 21.60 | 2.01  |
| 3.80 | 1.34  | 9.80  | 4.02   | 15.80 | 3.35  | 21.80 | 1.34  |
| 4.00 | 2.68  | 10.00 | 7.37   | 16.00 | 3.35  | 22.00 | 1.34  |
| 4.20 | 2.68  | 10.20 | 7.37   | 16.20 | 3.35  | 22.20 | 2.01  |
| 4.40 | 2.68  | 10.40 | 7.37   | 16.40 | 3.35  | 22.40 | 1.34  |
| 4.60 | 2.68  | 10.60 | 7.37   | 16.60 | 3.35  | 22.60 | 2.01  |
| 4.80 | 2.68  | 10.80 | 7.37   | 16.80 | 2.01  | 22.80 | 1.34  |
| 5.00 | 2.68  | 11.00 | 10.05  | 17.00 | 2.01  | 23.00 | 1.34  |
| 5.20 | 2.68  | 11.20 | 14.74  | 17.20 | 2.68  | 23.20 | 1.34  |
| 5.40 | 2.68  | 11.40 | 35.51  | 17.40 | 2.01  | 23.40 | 2.01  |
| 5.60 | 2.68  | 11.60 | 73.70  | 17.60 | 2.68  | 23.60 | 1.34  |
| 5.80 | 2.68  | 11.80 | 150.75 | 17.80 | 2.01  | 23.80 | 1.34  |

CALIB  
NASHYD ( 0301) | Area (ha)= 1.19 Curve Number (CN)= 81.0  
ID= 1 DT= 2.0 min | Ia (mm)= 6.80 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---

| TIME  | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
|-------|-------|-------|-------|--------|-------|-------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033 | 1.34  | 6.033 | 2.68  | 12.033 | 26.80 | 18.03 | 2.01  |

|       |      |       |      |        |        |       |      |
|-------|------|-------|------|--------|--------|-------|------|
| 0.067 | 1.34 | 6.067 | 2.68 | 12.067 | 26.80  | 18.07 | 2.01 |
| 0.100 | 1.34 | 6.100 | 2.68 | 12.100 | 26.80  | 18.10 | 2.01 |
| 0.133 | 1.34 | 6.133 | 2.68 | 12.133 | 26.80  | 18.13 | 2.01 |
| 0.167 | 1.34 | 6.167 | 2.68 | 12.167 | 26.80  | 18.17 | 2.01 |
| 0.200 | 1.34 | 6.200 | 2.68 | 12.200 | 26.79  | 18.20 | 2.01 |
| 0.233 | 1.34 | 6.233 | 2.68 | 12.233 | 16.75  | 18.23 | 2.01 |
| 0.267 | 1.34 | 6.267 | 2.68 | 12.267 | 16.75  | 18.27 | 2.01 |
| 0.300 | 1.34 | 6.300 | 2.68 | 12.300 | 16.75  | 18.30 | 2.01 |
| 0.333 | 1.34 | 6.333 | 2.68 | 12.333 | 16.75  | 18.33 | 2.01 |
| 0.367 | 1.34 | 6.367 | 2.68 | 12.367 | 16.75  | 18.37 | 2.01 |
| 0.400 | 1.34 | 6.400 | 2.68 | 12.400 | 16.74  | 18.40 | 2.01 |
| 0.433 | 1.34 | 6.433 | 2.68 | 12.433 | 12.06  | 18.43 | 2.68 |
| 0.467 | 1.34 | 6.467 | 2.68 | 12.467 | 12.06  | 18.47 | 2.68 |
| 0.500 | 1.34 | 6.500 | 2.68 | 12.500 | 12.06  | 18.50 | 2.68 |
| 0.533 | 1.34 | 6.533 | 2.68 | 12.533 | 12.06  | 18.53 | 2.68 |
| 0.567 | 1.34 | 6.567 | 2.68 | 12.567 | 12.06  | 18.57 | 2.68 |
| 0.600 | 1.34 | 6.600 | 2.68 | 12.600 | 12.06  | 18.60 | 2.68 |
| 0.633 | 1.34 | 6.633 | 2.68 | 12.633 | 11.39  | 18.63 | 2.01 |
| 0.667 | 1.34 | 6.667 | 2.68 | 12.667 | 11.39  | 18.67 | 2.01 |
| 0.700 | 1.34 | 6.700 | 2.68 | 12.700 | 11.39  | 18.70 | 2.01 |
| 0.733 | 1.34 | 6.733 | 2.68 | 12.733 | 11.39  | 18.73 | 2.01 |
| 0.767 | 1.34 | 6.767 | 2.68 | 12.767 | 11.39  | 18.77 | 2.01 |
| 0.800 | 1.34 | 6.800 | 2.68 | 12.800 | 11.38  | 18.80 | 2.01 |
| 0.833 | 1.34 | 6.833 | 2.68 | 12.833 | 8.04   | 18.83 | 2.01 |
| 0.867 | 1.34 | 6.867 | 2.68 | 12.867 | 8.04   | 18.87 | 2.01 |
| 0.900 | 1.34 | 6.900 | 2.68 | 12.900 | 8.04   | 18.90 | 2.01 |
| 0.933 | 1.34 | 6.933 | 2.68 | 12.933 | 8.04   | 18.93 | 2.01 |
| 0.967 | 1.34 | 6.967 | 2.68 | 12.967 | 8.04   | 18.97 | 2.01 |
| 1.000 | 1.34 | 7.000 | 2.68 | 13.000 | 8.04   | 19.00 | 2.01 |
| 1.033 | 1.34 | 7.033 | 2.68 | 13.033 | 6.70   | 19.03 | 2.68 |
| 1.067 | 1.34 | 7.067 | 2.68 | 13.067 | 6.70   | 19.07 | 2.68 |
| 1.100 | 1.34 | 7.100 | 2.68 | 13.100 | 6.70   | 19.10 | 2.68 |
| 1.133 | 1.34 | 7.133 | 2.68 | 13.133 | 6.70   | 19.13 | 2.68 |
| 1.167 | 1.34 | 7.167 | 2.68 | 13.167 | 6.70   | 19.17 | 2.68 |
| 1.200 | 1.34 | 7.200 | 2.68 | 13.200 | 6.70   | 19.20 | 2.68 |
| 1.233 | 1.34 | 7.233 | 2.68 | 13.233 | 6.70   | 19.23 | 2.01 |
| 1.267 | 1.34 | 7.267 | 2.68 | 13.267 | 6.70   | 19.27 | 2.01 |
| 1.300 | 1.34 | 7.300 | 2.68 | 13.300 | 6.70   | 19.30 | 2.01 |
| 1.333 | 1.34 | 7.333 | 2.68 | 13.333 | 6.70   | 19.33 | 2.01 |
| 1.367 | 1.34 | 7.367 | 2.68 | 13.367 | 6.70   | 19.37 | 2.01 |
| 1.400 | 1.34 | 7.400 | 2.68 | 13.400 | 6.70   | 19.40 | 2.01 |
| 1.433 | 1.34 | 7.433 | 2.68 | 13.433 | 6.70   | 19.43 | 2.68 |
| 1.467 | 1.34 | 7.467 | 2.68 | 13.467 | 6.70   | 19.47 | 2.68 |
| 1.500 | 1.34 | 7.500 | 2.68 | 13.500 | 6.70   | 19.50 | 2.68 |
| 1.533 | 1.34 | 7.533 | 2.68 | 13.533 | 6.70   | 19.53 | 2.68 |
| 1.567 | 1.34 | 7.567 | 2.68 | 13.567 | 6.70   | 19.57 | 2.68 |
| 1.600 | 1.34 | 7.600 | 2.68 | 13.600 | 6.70   | 19.60 | 2.68 |
| 1.633 | 1.34 | 7.633 | 2.68 | 13.633 | 6.70   | 19.63 | 2.01 |
| 1.667 | 1.34 | 7.667 | 2.68 | 13.667 | 6.70   | 19.67 | 2.01 |
| 1.700 | 1.34 | 7.700 | 2.68 | 13.700 | 6.70   | 19.70 | 2.01 |
| 1.733 | 1.34 | 7.733 | 2.68 | 13.733 | 6.70   | 19.73 | 2.01 |
| 1.767 | 1.34 | 7.767 | 2.68 | 13.767 | 6.70   | 19.77 | 2.01 |
| 1.800 | 1.34 | 7.800 | 2.68 | 13.800 | 6.70   | 19.80 | 2.01 |
| 1.833 | 1.34 | 7.833 | 2.68 | 13.833 | 6.70   | 19.83 | 2.68 |
| 1.867 | 1.34 | 7.867 | 2.68 | 13.867 | 6.70   | 19.87 | 2.68 |
| 1.900 | 1.34 | 7.900 | 2.68 | 13.900 | 6.70   | 19.90 | 2.68 |
| 1.933 | 1.34 | 7.933 | 2.68 | 13.933 | 6.70   | 19.93 | 2.68 |
| 1.967 | 1.34 | 7.967 | 2.68 | 13.967 | 6.70   | 19.97 | 2.68 |
| 2.000 | 1.34 | 8.000 | 2.68 | 14.000 | 6.69   | 20.00 | 2.68 |
| 2.033 | 1.34 | 8.033 | 4.02 | 14.033 | 4.02   | 20.03 | 2.01 |
| 2.067 | 1.34 | 8.067 | 4.02 | 14.067 | 4.02   | 20.07 | 2.01 |
| 2.100 | 1.34 | 8.100 | 4.02 | 14.100 | 4.02   | 20.10 | 2.01 |
| 2.133 | 1.34 | 8.133 | 4.02 | 14.133 | 4.02   | 20.13 | 2.01 |
| 2.167 | 1.34 | 8.167 | 4.02 | 14.167 | 4.02   | 20.17 | 2.01 |
| 2.200 | 1.34 | 8.200 | 4.02 | 14.200 | 4.02   | 20.20 | 2.01 |
| 2.233 | 1.34 | 8.233 | 4.02 | 14.233 | 4.02   | 20.23 | 2.01 |
| 2.267 | 1.34 | 8.267 | 4.02 | 14.267 | 4.02   | 20.27 | 2.01 |
| 2.300 | 1.34 | 8.300 | 4.02 | 14.300 | 4.02   | 20.30 | 2.01 |
| 2.333 | 1.34 | 8.333 | 4.02 | 14.333 | 4.02   | 20.33 | 2.01 |
| 2.367 | 1.34 | 8.367 | 4.02 | 14.367 | 4.02   | 20.37 | 2.01 |
| 2.400 | 1.34 | 8.400 | 4.02 | 14.400 | 4.02   | 20.40 | 2.01 |
| 2.433 | 1.34 | 8.433 | 4.02 | 14.433 | 4.02   | 20.43 | 1.34 |
| 2.467 | 1.34 | 8.467 | 4.02 | 14.467 | 4.02   | 20.47 | 1.34 |
| 2.500 | 1.34 | 8.500 | 4.02 | 14.500 | 4.02   | 20.50 | 1.34 |
| 2.533 | 1.34 | 8.533 | 4.02 | 14.533 | 4.02   | 20.53 | 1.34 |
| 2.567 | 1.34 | 8.567 | 4.02 | 14.567 | 4.02   | 20.57 | 1.34 |
| 2.600 | 1.34 | 8.600 | 4.02 | 14.600 | 4.02   | 20.60 | 1.34 |
| 2.633 | 1.34 | 8.633 | 4.02 | 14.633 | 4.02   | 20.63 | 2.01 |
| 2.667 | 1.34 | 8.667 | 4.02 | 14.667 | 4.02   | 20.67 | 2.01 |
| 2.700 | 1.34 | 8.700 | 4.02 | 14.700 | 4.02   | 20.70 | 2.01 |
| 2.733 | 1.34 | 8.733 | 4.02 | 14.733 | 4.02   | 20.73 | 2.01 |
| 2.767 | 1.34 | 8.767 | 4.02 | 14.767 | 4.02   | 20.77 | 2.01 |
| 2.800 | 1.34 | 8.800 | 4.02 | 14.800 | 4.02   | 20.80 | 2.01 |
| 2.833 | 1.34 | 8.833 | 4.02 | 14.833 | 4.02   | 20.83 | 2.01 |
| 2.867 | 1.34 | 8.867 | 4.02 | 14.867 | 4.02   | 20.87 | 2.01 |
| 2.900 | 1.34 | 8.900 | 4.02 | 14.900 | 4.02   | 20.90 | 2.01 |
| 2.933 | 1.34 | 8.933 | 4.02 | 14.933 | 4.02   | 20.93 | 2.01 |
| 2.967 | 1.34 | 8.967 | 4.02 | 14.967 | 4.02   | 20.97 | 2.01 |
| 3.000 | 1.34 | 9.000 | 4.02 | 15.000 | 4.02   | 21.00 | 2.01 |
| 3.033 | 1.34 | 9.033 | 4.02 | 15.033 | 3.35   | 21.03 | 1.34 |
| 3.067 | 1.34 | 9.067 | 4.02 | 15.067 | 3.35   | 21.07 | 1.34 |
| 3.100 | 1.34 | 9.100 | 4.02 | 15.100 | 3.35   | 21.10 | 1.34 |
| 3.133 | 1.34 | 9.133 | 4.02 | 15.133 | 3.35   | 21.13 | 1.34 |
| 3.167 | 1.34 | 9.167 | 4.02 | 15.167 | 3.35   | 21.17 | 1.34 |
| 3.200 | 1.34 | 9.200 | 4.02 | 15.200 | 3.35   | 21.20 | 1.34 |
| 3.233 | 1.34 | 9.233 | 4.02 | 15.233 | 3.35   | 21.23 | 2.01 |
| 3.267 | 1.34 | 9.267 | 4.02 | 15.267 | 3.35   | 21.27 | 2.01 |
| 3.300 | 1.34 | 9.300 | 4.02 | 15.300 | 3.35</ |       |      |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 4.300 | 2.68 | 10.300 | 7.37   | 16.300 | 3.35 | 22.30 | 2.01 |
| 4.333 | 2.68 | 10.333 | 7.37   | 16.333 | 3.35 | 22.33 | 2.01 |
| 4.367 | 2.68 | 10.367 | 7.37   | 16.367 | 3.35 | 22.37 | 2.01 |
| 4.400 | 2.68 | 10.400 | 7.37   | 16.400 | 3.35 | 22.40 | 2.01 |
| 4.433 | 2.68 | 10.433 | 7.37   | 16.433 | 3.35 | 22.43 | 1.34 |
| 4.467 | 2.68 | 10.467 | 7.37   | 16.467 | 3.35 | 22.47 | 1.34 |
| 4.500 | 2.68 | 10.500 | 7.37   | 16.500 | 3.35 | 22.50 | 1.34 |
| 4.533 | 2.68 | 10.533 | 7.37   | 16.533 | 3.35 | 22.53 | 1.34 |
| 4.567 | 2.68 | 10.567 | 7.37   | 16.567 | 3.35 | 22.57 | 1.34 |
| 4.600 | 2.68 | 10.600 | 7.37   | 16.600 | 3.35 | 22.60 | 1.34 |
| 4.633 | 2.68 | 10.633 | 7.37   | 16.633 | 3.35 | 22.63 | 2.01 |
| 4.667 | 2.68 | 10.667 | 7.37   | 16.667 | 3.35 | 22.67 | 2.01 |
| 4.700 | 2.68 | 10.700 | 7.37   | 16.700 | 3.35 | 22.70 | 2.01 |
| 4.733 | 2.68 | 10.733 | 7.37   | 16.733 | 3.35 | 22.73 | 2.01 |
| 4.767 | 2.68 | 10.767 | 7.37   | 16.767 | 3.35 | 22.77 | 2.01 |
| 4.800 | 2.68 | 10.800 | 7.37   | 16.800 | 3.35 | 22.80 | 2.01 |
| 4.833 | 2.68 | 10.833 | 7.37   | 16.833 | 2.01 | 22.83 | 1.34 |
| 4.867 | 2.68 | 10.867 | 7.37   | 16.867 | 2.01 | 22.87 | 1.34 |
| 4.900 | 2.68 | 10.900 | 7.37   | 16.900 | 2.01 | 22.90 | 1.34 |
| 4.933 | 2.68 | 10.933 | 7.37   | 16.933 | 2.01 | 22.93 | 1.34 |
| 4.967 | 2.68 | 10.967 | 7.37   | 16.967 | 2.01 | 22.97 | 1.34 |
| 5.000 | 2.68 | 11.000 | 7.37   | 17.000 | 2.01 | 23.00 | 1.34 |
| 5.033 | 2.68 | 11.033 | 10.05  | 17.033 | 2.01 | 23.03 | 1.34 |
| 5.067 | 2.68 | 11.067 | 10.05  | 17.067 | 2.01 | 23.07 | 1.34 |
| 5.100 | 2.68 | 11.100 | 10.05  | 17.100 | 2.01 | 23.10 | 1.34 |
| 5.133 | 2.68 | 11.133 | 10.05  | 17.133 | 2.01 | 23.13 | 1.34 |
| 5.167 | 2.68 | 11.167 | 10.05  | 17.167 | 2.01 | 23.17 | 1.34 |
| 5.200 | 2.68 | 11.200 | 10.06  | 17.200 | 2.01 | 23.20 | 1.34 |
| 5.233 | 2.68 | 11.233 | 14.74  | 17.233 | 2.68 | 23.23 | 1.34 |
| 5.267 | 2.68 | 11.267 | 14.74  | 17.267 | 2.68 | 23.27 | 1.34 |
| 5.300 | 2.68 | 11.300 | 14.74  | 17.300 | 2.68 | 23.30 | 1.34 |
| 5.333 | 2.68 | 11.333 | 14.74  | 17.333 | 2.68 | 23.33 | 1.34 |
| 5.367 | 2.68 | 11.367 | 14.74  | 17.367 | 2.68 | 23.37 | 1.34 |
| 5.400 | 2.68 | 11.400 | 14.76  | 17.400 | 2.68 | 23.40 | 1.34 |
| 5.433 | 2.68 | 11.433 | 35.51  | 17.433 | 2.01 | 23.43 | 2.01 |
| 5.467 | 2.68 | 11.467 | 35.51  | 17.467 | 2.01 | 23.47 | 2.01 |
| 5.500 | 2.68 | 11.500 | 35.51  | 17.500 | 2.01 | 23.50 | 2.01 |
| 5.533 | 2.68 | 11.533 | 35.51  | 17.533 | 2.01 | 23.53 | 2.01 |
| 5.567 | 2.68 | 11.567 | 35.51  | 17.567 | 2.01 | 23.57 | 2.01 |
| 5.600 | 2.68 | 11.600 | 35.56  | 17.600 | 2.01 | 23.60 | 2.01 |
| 5.633 | 2.68 | 11.633 | 73.70  | 17.633 | 2.68 | 23.63 | 1.34 |
| 5.667 | 2.68 | 11.667 | 73.70  | 17.667 | 2.68 | 23.67 | 1.34 |
| 5.700 | 2.68 | 11.700 | 73.70  | 17.700 | 2.68 | 23.70 | 1.34 |
| 5.733 | 2.68 | 11.733 | 73.70  | 17.733 | 2.68 | 23.73 | 1.34 |
| 5.767 | 2.68 | 11.767 | 73.70  | 17.767 | 2.68 | 23.77 | 1.34 |
| 5.800 | 2.68 | 11.800 | 73.80  | 17.800 | 2.68 | 23.80 | 1.34 |
| 5.833 | 2.68 | 11.833 | 150.75 | 17.833 | 2.01 | 23.83 | 1.34 |
| 5.867 | 2.68 | 11.867 | 150.75 | 17.867 | 2.01 | 23.87 | 1.34 |
| 5.900 | 2.68 | 11.900 | 150.75 | 17.900 | 2.01 | 23.90 | 1.34 |
| 5.933 | 2.68 | 11.933 | 150.75 | 17.933 | 2.01 | 23.93 | 1.34 |
| 5.967 | 2.68 | 11.967 | 150.75 | 17.967 | 2.01 | 23.97 | 1.34 |
| 6.000 | 2.68 | 12.000 | 150.58 | 18.000 | 2.01 | 24.00 | 1.34 |

Unit Hyd Qpeak (cms)= 0.189

PEAK FLOW (cms)= 0.229 (i)  
TIME TO PEAK (hrs)= 12.133  
RUNOFF VOLUME (mm)= 86.622  
TOTAL RAINFALL (mm)= 133.999  
RUNOFF COEFFICIENT = 0.646

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |               |      |                           |
|-------------------|---------------|------|---------------------------|
| CALIB             |               |      |                           |
| NASHYD ( 0302)    | Area (ha)=    | 2.75 | Curve Number (CN)= 81.0   |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 6.80 | # of Linear Res.(N)= 3.00 |
|                   | U.H. Tp(hrs)= | 0.21 |                           |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                              | 1.34  | 6.033 | 2.68  | 12.033 | 26.80 | 18.03 | 2.01  |
| 0.067                              | 1.34  | 6.067 | 2.68  | 12.067 | 26.80 | 18.07 | 2.01  |
| 0.100                              | 1.34  | 6.100 | 2.68  | 12.100 | 26.80 | 18.10 | 2.01  |
| 0.133                              | 1.34  | 6.133 | 2.68  | 12.133 | 26.80 | 18.13 | 2.01  |
| 0.167                              | 1.34  | 6.167 | 2.68  | 12.167 | 26.80 | 18.17 | 2.01  |
| 0.200                              | 1.34  | 6.200 | 2.68  | 12.200 | 26.79 | 18.20 | 2.01  |
| 0.233                              | 1.34  | 6.233 | 2.68  | 12.233 | 16.75 | 18.23 | 2.01  |
| 0.267                              | 1.34  | 6.267 | 2.68  | 12.267 | 16.75 | 18.27 | 2.01  |
| 0.300                              | 1.34  | 6.300 | 2.68  | 12.300 | 16.75 | 18.30 | 2.01  |
| 0.333                              | 1.34  | 6.333 | 2.68  | 12.333 | 16.75 | 18.33 | 2.01  |
| 0.367                              | 1.34  | 6.367 | 2.68  | 12.367 | 16.75 | 18.37 | 2.01  |
| 0.400                              | 1.34  | 6.400 | 2.68  | 12.400 | 16.74 | 18.40 | 2.01  |
| 0.433                              | 1.34  | 6.433 | 2.68  | 12.433 | 12.06 | 18.43 | 2.68  |
| 0.467                              | 1.34  | 6.467 | 2.68  | 12.467 | 12.06 | 18.47 | 2.68  |
| 0.500                              | 1.34  | 6.500 | 2.68  | 12.500 | 12.06 | 18.50 | 2.68  |
| 0.533                              | 1.34  | 6.533 | 2.68  | 12.533 | 12.06 | 18.53 | 2.68  |
| 0.567                              | 1.34  | 6.567 | 2.68  | 12.567 | 12.06 | 18.57 | 2.68  |
| 0.600                              | 1.34  | 6.600 | 2.68  | 12.600 | 12.06 | 18.60 | 2.68  |
| 0.633                              | 1.34  | 6.633 | 2.68  | 12.633 | 11.39 | 18.63 | 2.01  |
| 0.667                              | 1.34  | 6.667 | 2.68  | 12.667 | 11.39 | 18.67 | 2.01  |
| 0.700                              | 1.34  | 6.700 | 2.68  | 12.700 | 11.39 | 18.70 | 2.01  |
| 0.733                              | 1.34  | 6.733 | 2.68  | 12.733 | 11.39 | 18.73 | 2.01  |
| 0.767                              | 1.34  | 6.767 | 2.68  | 12.767 | 11.39 | 18.77 | 2.01  |
| 0.800                              | 1.34  | 6.800 | 2.68  | 12.800 | 11.38 | 18.80 | 2.01  |
| 0.833                              | 1.34  | 6.833 | 2.68  | 12.833 | 8.04  | 18.83 | 2.01  |
| 0.867                              | 1.34  | 6.867 | 2.68  | 12.867 | 8.04  | 18.87 | 2.01  |
| 0.900                              | 1.34  | 6.900 | 2.68  | 12.900 | 8.04  | 18.90 | 2.01  |
| 0.933                              | 1.34  | 6.933 | 2.68  | 12.933 | 8.04  | 18.93 | 2.01  |
| 0.967                              | 1.34  | 6.967 | 2.68  | 12.967 | 8.04  | 18.97 | 2.01  |
| 1.000                              | 1.34  | 7.000 | 2.68  | 13.000 | 8.04  | 19.00 | 2.01  |
| 1.033                              | 1.34  | 7.033 | 2.68  | 13.033 | 6.70  | 19.03 | 2.68  |
| 1.067                              | 1.34  | 7.067 | 2.68  | 13.067 | 6.70  | 19.07 | 2.68  |
| 1.100                              | 1.34  | 7.100 | 2.68  | 13.100 | 6.70  | 19.10 | 2.68  |
| 1.133                              | 1.34  | 7.133 | 2.68  | 13.133 | 6.70  | 19.13 | 2.68  |
| 1.167                              | 1.34  | 7.167 | 2.68  | 13.167 | 6.70  | 19.17 | 2.68  |
| 1.200                              | 1.34  | 7.200 | 2.68  | 13.200 | 6.70  | 19.20 | 2.68  |
| 1.233                              | 1.34  | 7.233 | 2.68  | 13.233 | 6.70  | 19.23 | 2.01  |
| 1.267                              | 1.34  | 7.267 | 2.68  | 13.267 | 6.70  | 19.27 | 2.01  |
| 1.300                              | 1.34  | 7.300 | 2.68  | 13.300 | 6.70  | 19.30 | 2.01  |
| 1.333                              | 1.34  | 7.333 | 2.68  | 13.333 | 6.70  | 19.33 | 2.01  |
| 1.367                              | 1.34  | 7.367 | 2.68  | 13.367 | 6.70  | 19.37 | 2.01  |
| 1.400                              | 1.34  | 7.400 | 2.68  | 13.400 | 6.70  | 19.40 | 2.01  |
| 1.433                              | 1.34  | 7.433 | 2.68  | 13.433 | 6.70  | 19.43 | 2.68  |
| 1.467                              | 1.34  | 7.467 | 2.68  | 13.467 | 6.70  | 19.47 | 2.68  |
| 1.500                              | 1.34  | 7.500 | 2.68  | 13.500 | 6.70  | 19.50 | 2.68  |
| 1.533                              | 1.34  | 7.533 | 2.68  | 13.533 | 6.70  | 19.53 | 2.68  |
| 1.567                              | 1.34  | 7.567 | 2.68  | 13.567 | 6.70  | 19.57 | 2.68  |
| 1.600                              | 1.34  | 7.600 | 2.68  | 13.600 | 6.70  | 19.60 | 2.68  |
| 1.633                              | 1.34  | 7.633 | 2.68  | 13.633 | 6.70  | 19.63 | 2.01  |
| 1.667                              | 1.34  | 7.667 | 2.68  | 13.667 | 6.70  | 19.67 | 2.01  |
| 1.700                              | 1.34  | 7.700 | 2.68  | 13.700 | 6.70  | 19.70 | 2.01  |

|       |      |       |      |        |      |       |      |
|-------|------|-------|------|--------|------|-------|------|
| 1.733 | 1.34 | 7.733 | 2.68 | 13.733 | 6.70 | 19.73 | 2.01 |
| 1.767 | 1.34 | 7.767 | 2.68 | 13.767 | 6.70 | 19.77 | 2.01 |
| 1.800 | 1.34 | 7.800 | 2.68 | 13.800 | 6.70 | 19.80 | 2.01 |
| 1.833 | 1.34 | 7.833 | 2.68 | 13.833 | 6.70 | 19.83 | 2.68 |
| 1.867 | 1.34 | 7.867 | 2.68 | 13.867 | 6.70 | 19.87 | 2.68 |
| 1.900 | 1.34 | 7.900 | 2.68 | 13.900 | 6.70 | 19.90 | 2.68 |
| 1.933 | 1.34 | 7.933 | 2.68 | 13.933 | 6.70 | 19.93 | 2.68 |
| 1.967 | 1.34 | 7.967 | 2.68 | 13.967 | 6.70 | 19.97 | 2.68 |
| 2.000 | 1.34 | 8.000 | 2.68 | 14.000 | 6.69 | 20.00 | 2.68 |
| 2.033 | 1.34 | 8.033 | 4.02 | 14.033 | 4.02 | 20.03 | 2.01 |
| 2.067 | 1.34 | 8.067 | 4.02 | 14.067 | 4.02 | 20.07 | 2.01 |
| 2.100 | 1.34 | 8.100 | 4.02 | 14.100 | 4.02 | 20.10 | 2.01 |
| 2.133 | 1.34 | 8.133 | 4.02 | 14.133 | 4.02 | 20.13 | 2.01 |
| 2.167 | 1.34 | 8.167 | 4.02 | 14.167 | 4.02 | 20.17 | 2.01 |
| 2.200 | 1.34 | 8.200 | 4.02 | 14.200 | 4.02 | 20.20 | 2.01 |
| 2.233 | 1.34 | 8.233 | 4.02 | 14.233 | 4.02 | 20.23 | 2.01 |
| 2.267 | 1.34 | 8.267 | 4.02 | 14.267 | 4.02 | 20.27 | 2.01 |
| 2.300 | 1.34 | 8.300 | 4.02 | 14.300 | 4.02 | 20.30 | 2.01 |
| 2.333 | 1.34 | 8.333 | 4.02 | 14.333 | 4.02 | 20.33 | 2.01 |
| 2.367 | 1.34 | 8.367 | 4.02 | 14.367 | 4.02 | 20.37 | 2.01 |
| 2.400 | 1.34 | 8.400 | 4.02 | 14.400 | 4.02 | 20.40 | 2.01 |
| 2.433 | 1.34 | 8.433 | 4.02 | 14.433 | 4.02 | 20.43 | 1.34 |
| 2.467 | 1.34 | 8.467 | 4.02 | 14.467 | 4.02 | 20.47 | 1.34 |
| 2.500 | 1.34 | 8.500 | 4.02 | 14.500 | 4.02 | 20.50 | 1.34 |
| 2.533 | 1.34 | 8.533 | 4.02 | 14.533 | 4.02 | 20.53 | 1.34 |
| 2.567 | 1.34 | 8.567 | 4.02 | 14.567 | 4.02 | 20.57 | 1.34 |
| 2.600 | 1.34 | 8.600 | 4.02 | 14.600 | 4.02 | 20.60 | 1.34 |
| 2.633 | 1.34 | 8.633 | 4.02 | 14.633 | 4.02 | 20.63 | 2.01 |
| 2.667 | 1.34 | 8.667 | 4.02 | 14.667 | 4.02 | 20.67 | 2.01 |
| 2.700 | 1.34 | 8.700 | 4.02 | 14.700 | 4.02 | 20.70 | 2.01 |
| 2.733 | 1.34 | 8.733 | 4.02 | 14.733 | 4.02 | 20.73 | 2.01 |
| 2.767 | 1.34 | 8.767 | 4.02 | 14.767 | 4.02 | 20.77 | 2.01 |
| 2.800 | 1.34 | 8.800 | 4.02 | 14.800 | 4.02 | 20.80 | 2.01 |
| 2.833 | 1.34 | 8.833 | 4.02 | 14.833 | 4.02 | 20.83 | 2.01 |
| 2.867 | 1.34 | 8.867 | 4.02 | 14.867 | 4.02 | 20.87 | 2.01 |
| 2.900 | 1.34 | 8.900 | 4.02 | 14.900 | 4.02 | 20.90 | 2.01 |
| 2.933 | 1.34 | 8.933 | 4.02 | 14.933 | 4.02 | 20.93 | 2.0  |

5.967 2.68 11.967 150.75 17.967 2.01 23.97 1.34  
6.000 2.68 12.000 150.58 18.000 2.01 24.00 1.34

Unit Hyd Qpeak (cms)= 0.500

PEAK FLOW (cms)= 0.571 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 86.621  
TOTAL RAINFALL (mm)= 133.999  
RUNOFF COEFFICIENT = 0.646

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0030) |  
| 1 + 2 = 3 |  
-----  
ID1= 1 ( 0301): 1.19 0.229 12.13 86.62  
+ ID2= 2 ( 0302): 2.75 0.571 12.10 86.62  
=====

ID = 3 ( 0030): 3.94 0.799 12.10 86.62

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB |  
NASHYD ( 0303) | Area (ha)= 1.14 Curve Number (CN)= 83.0  
ID= 1 DT= 2.0 min | Ia (mm)= 5.60 # of Linear Res.(N)= 3.00  
-----  
U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.033 1.34 6.033 2.68 12.033 26.80 18.03 2.01  
0.067 1.34 6.067 2.68 12.067 26.80 18.07 2.01  
0.100 1.34 6.100 2.68 12.100 26.80 18.10 2.01  
0.133 1.34 6.133 2.68 12.133 26.80 18.13 2.01  
0.167 1.34 6.167 2.68 12.167 26.80 18.17 2.01  
0.200 1.34 6.200 2.68 12.200 26.79 18.20 2.01  
0.233 1.34 6.233 2.68 12.233 16.75 18.23 2.01  
0.267 1.34 6.267 2.68 12.267 16.75 18.27 2.01  
0.300 1.34 6.300 2.68 12.300 16.75 18.30 2.01  
0.333 1.34 6.333 2.68 12.333 16.75 18.33 2.01  
0.367 1.34 6.367 2.68 12.367 16.75 18.37 2.01  
0.400 1.34 6.400 2.68 12.400 16.74 18.40 2.01  
0.433 1.34 6.433 2.68 12.433 12.06 18.43 2.68  
0.467 1.34 6.467 2.68 12.467 12.06 18.47 2.68  
0.500 1.34 6.500 2.68 12.500 12.06 18.50 2.68  
0.533 1.34 6.533 2.68 12.533 12.06 18.53 2.68  
0.567 1.34 6.567 2.68 12.567 12.06 18.57 2.68  
0.600 1.34 6.600 2.68 12.600 12.06 18.60 2.68  
0.633 1.34 6.633 2.68 12.633 11.39 18.63 2.01  
0.667 1.34 6.667 2.68 12.667 11.39 18.67 2.01  
0.700 1.34 6.700 2.68 12.700 11.39 18.70 2.01  
0.733 1.34 6.733 2.68 12.733 11.39 18.73 2.01  
0.767 1.34 6.767 2.68 12.767 11.39 18.77 2.01  
0.800 1.34 6.800 2.68 12.800 11.38 18.80 2.01  
0.833 1.34 6.833 2.68 12.833 8.04 18.83 2.01  
0.867 1.34 6.867 2.68 12.867 8.04 18.87 2.01  
0.900 1.34 6.900 2.68 12.900 8.04 18.90 2.01  
0.933 1.34 6.933 2.68 12.933 8.04 18.93 2.01  
0.967 1.34 6.967 2.68 12.967 8.04 18.97 2.01  
1.000 1.34 7.000 2.68 13.000 8.04 19.00 2.01  
1.033 1.34 7.033 2.68 13.033 6.70 19.03 2.68  
1.067 1.34 7.067 2.68 13.067 6.70 19.07 2.68  
1.100 1.34 7.100 2.68 13.100 6.70 19.10 2.68  
1.133 1.34 7.133 2.68 13.133 6.70 19.13 2.68  
1.167 1.34 7.167 2.68 13.167 6.70 19.17 2.68  
1.200 1.34 7.200 2.68 13.200 6.70 19.20 2.68  
1.233 1.34 7.233 2.68 13.233 6.70 19.23 2.01  
1.267 1.34 7.267 2.68 13.267 6.70 19.27 2.01  
1.300 1.34 7.300 2.68 13.300 6.70 19.30 2.01  
1.333 1.34 7.333 2.68 13.333 6.70 19.33 2.01  
1.367 1.34 7.367 2.68 13.367 6.70 19.37 2.01  
1.400 1.34 7.400 2.68 13.400 6.70 19.40 2.01  
1.433 1.34 7.433 2.68 13.433 6.70 19.43 2.68  
1.467 1.34 7.467 2.68 13.467 6.70 19.47 2.68  
1.500 1.34 7.500 2.68 13.500 6.70 19.50 2.68  
1.533 1.34 7.533 2.68 13.533 6.70 19.53 2.68  
1.567 1.34 7.567 2.68 13.567 6.70 19.57 2.68  
1.600 1.34 7.600 2.68 13.600 6.70 19.60 2.68  
1.633 1.34 7.633 2.68 13.633 6.70 19.63 2.01  
1.667 1.34 7.667 2.68 13.667 6.70 19.67 2.01  
1.700 1.34 7.700 2.68 13.700 6.70 19.70 2.01  
1.733 1.34 7.733 2.68 13.733 6.70 19.73 2.01  
1.767 1.34 7.767 2.68 13.767 6.70 19.77 2.01  
1.800 1.34 7.800 2.68 13.800 6.70 19.80 2.01  
1.833 1.34 7.833 2.68 13.833 6.70 19.83 2.68  
1.867 1.34 7.867 2.68 13.867 6.70 19.87 2.68  
1.900 1.34 7.900 2.68 13.900 6.70 19.90 2.68  
1.933 1.34 7.933 2.68 13.933 6.70 19.93 2.68  
1.967 1.34 7.967 2.68 13.967 6.70 19.97 2.68  
2.000 1.34 8.000 2.68 14.000 6.69 20.00 2.68  
2.033 1.34 8.033 4.02 14.033 4.02 20.03 2.01  
2.067 1.34 8.067 4.02 14.067 4.02 20.07 2.01  
2.100 1.34 8.100 4.02 14.100 4.02 20.10 2.01  
2.133 1.34 8.133 4.02 14.133 4.02 20.13 2.01  
2.167 1.34 8.167 4.02 14.167 4.02 20.17 2.01  
2.200 1.34 8.200 4.02 14.200 4.02 20.20 2.01  
2.233 1.34 8.233 4.02 14.233 4.02 20.23 2.01  
2.267 1.34 8.267 4.02 14.267 4.02 20.27 2.01  
2.300 1.34 8.300 4.02 14.300 4.02 20.30 2.01  
2.333 1.34 8.333 4.02 14.333 4.02 20.33 2.01  
2.367 1.34 8.367 4.02 14.367 4.02 20.37 2.01  
2.400 1.34 8.400 4.02 14.400 4.02 20.40 2.01  
2.433 1.34 8.433 4.02 14.433 4.02 20.43 1.34  
2.467 1.34 8.467 4.02 14.467 4.02 20.47 1.34  
2.500 1.34 8.500 4.02 14.500 4.02 20.50 1.34  
2.533 1.34 8.533 4.02 14.533 4.02 20.53 1.34  
2.567 1.34 8.567 4.02 14.567 4.02 20.57 1.34  
2.600 1.34 8.600 4.02 14.600 4.02 20.60 1.34  
2.633 1.34 8.633 4.02 14.633 4.02 20.63 2.01  
2.667 1.34 8.667 4.02 14.667 4.02 20.67 2.01  
2.700 1.34 8.700 4.02 14.700 4.02 20.70 2.01  
2.733 1.34 8.733 4.02 14.733 4.02 20.73 2.01  
2.767 1.34 8.767 4.02 14.767 4.02 20.77 2.01  
2.800 1.34 8.800 4.02 14.800 4.02 20.80 2.01  
2.833 1.34 8.833 4.02 14.833 4.02 20.83 2.01  
2.867 1.34 8.867 4.02 14.867 4.02 20.87 2.01  
2.900 1.34 8.900 4.02 14.900 4.02 20.90 2.01  
2.933 1.34 8.933 4.02 14.933 4.02 20.93 2.01  
2.967 1.34 8.967 4.02 14.967 4.02 20.97 2.01

3.000 1.34 9.000 4.02 15.000 4.02 21.00 2.01  
3.033 1.34 9.033 4.02 15.033 3.35 21.03 1.34  
3.067 1.34 9.067 4.02 15.067 3.35 21.07 1.34  
3.100 1.34 9.100 4.02 15.100 3.35 21.10 1.34  
3.133 1.34 9.133 4.02 15.133 3.35 21.13 1.34  
3.167 1.34 9.167 4.02 15.167 3.35 21.17 1.34  
3.200 1.34 9.200 4.02 15.200 3.35 21.20 1.34  
3.233 1.34 9.233 4.02 15.233 3.35 21.23 2.01  
3.267 1.34 9.267 4.02 15.267 3.35 21.27 2.01  
3.300 1.34 9.300 4.02 15.300 3.35 21.30 2.01  
3.333 1.34 9.333 4.02 15.333 3.35 21.33 2.01  
3.367 1.34 9.367 4.02 15.367 3.35 21.37 2.01  
3.400 1.34 9.400 4.02 15.400 3.35 21.40 2.01  
3.433 1.34 9.433 4.02 15.433 3.35 21.43 1.34  
3.467 1.34 9.467 4.02 15.467 3.35 21.47 1.34  
3.500 1.34 9.500 4.02 15.500 3.35 21.50 1.34  
3.533 1.34 9.533 4.02 15.533 3.35 21.53 1.34  
3.567 1.34 9.567 4.02 15.567 3.35 21.57 1.34  
3.600 1.34 9.600 4.02 15.600 3.35 21.60 1.34  
3.633 1.34 9.633 4.02 15.633 3.35 21.63 2.01  
3.667 1.34 9.667 4.02 15.667 3.35 21.67 2.01  
3.700 1.34 9.700 4.02 15.700 3.35 21.70 2.01  
3.733 1.34 9.733 4.02 15.733 3.35 21.73 2.01  
3.767 1.34 9.767 4.02 15.767 3.35 21.77 2.01  
3.800 1.34 9.800 4.02 15.800 3.35 21.80 2.01  
3.833 1.34 9.833 4.02 15.833 3.35 21.83 1.34  
3.867 1.34 9.867 4.02 15.867 3.35 21.87 1.34  
3.900 1.34 9.900 4.02 15.900 3.35 21.90 1.34  
3.933 1.34 9.933 4.02 15.933 3.35 21.93 1.34  
3.967 1.34 9.967 4.02 15.967 3.35 21.97 1.34  
4.000 1.34 10.000 4.02 16.000 3.35 22.00 1.34  
4.033 2.68 10.033 7.37 16.033 3.35 22.03 1.34  
4.067 2.68 10.067 7.37 16.067 3.35 22.07 1.34  
4.100 2.68 10.100 7.37 16.100 3.35 22.10 1.34  
4.133 2.68 10.133 7.37 16.133 3.35 22.13 1.34  
4.167 2.68 10.167 7.37 16.167 3.35 22.17 1.34  
4.200 2.68 10.200 7.37 16.200 3.35 22.20 1.34  
4.233 2.68 10.233 7.37 16.233 3.35 22.23 2.01  
4.267 2.68 10.267 7.37 16.267 3.35 22.27 2.01  
4.300 2.68 10.300 7.37 16.300 3.35 22.30 2.01  
4.333 2.68 10.333 7.37 16.333 3.35 22.33 2.01  
4.367 2.68 10.367 7.37 16.367 3.35 22.37 2.01  
4.400 2.68 10.400 7.37 16.400 3.35 22.40 2.01  
4.433 2.68 10.433 7.37 16.433 3.35 22.43 1.34  
4.467 2.68 10.467 7.37 16.467 3.35 22.47 1.34  
4.500 2.68 10.500 7.37 16.500 3.35 22.50 1.34  
4.533 2.68 10.533 7.37 16.533 3.35 22.53 1.34  
4.567 2.68 10.567 7.37 16.567 3.35 22.57 1.34  
4.600 2.68 10.600 7.37 16.600 3.35 22.60 1.34  
4.633 2.68 10.633 7.37 16.633 3.35 22.63 2.01  
4.667 2.68 10.667 7.37 16.667 3.35 22.67 2.01  
4.700 2.68 10.700 7.37 16.700 3.35 22.70 2.01  
4.733 2.68 10.733 7.37 16.733 3.35 22.73 2.01  
4.767 2.68 10.767 7.37 16.767 3.35 22.77 2.01  
4.800 2.68 10.800 7.37 16.800 3.35 22.80 2.01  
4.833 2.68 10.833 7.37 16.833 2.01 22.83 1.34  
4.867 2.68 10.867 7.37 16.867 2.01 22.87 1.34  
4.900 2.68 10.900 7.37 16.900 2.01 22.90 1.34  
4.933 2.68 10.933 7.37 16.933 2.01 22.93 1.34  
4.967 2.68 10.967 7.37 16.967 2.01 22.97 1.34  
5.000 2.68 11.000 7.37 17.000 2.01 23.00 1.34  
5.033 2.68 11.033 10.05 17.033 2.01 23.03 1.34  
5.067 2.68 11.067 10.05 17.067 2.01 23.07 1.34  
5.100 2.68 11.100 10.05 17.100 2.01 23.10 1.34  
5.133 2.68 11.133 10.05 17.133 2.01 23.13 1.34  
5.167 2.68 11.167 10.05 17.167 2.01 23.17 1.34  
5.200 2.68 11.200 10.06 17.200 2.01 23.20 1.34  
5.233 2.68 11.233 14.74 17.233 2.68 23.23 1.34  
5.267 2.68 11.267 14.74 17.267 2.68 23.27 1.34  
5.300 2.68 11.300 14.74 17.300 2.68 23.30 1.34  
5.333 2.68 11.333 14.74 17.333 2.68 23.33 1.34  
5.367 2.68 11.367 14.74 17.367 2.68 23.37 1.34  
5.400 2.68 11.400 14.76 17.400 2.68 23.40 1.34  
5.433 2.68 11.433 35.51 17.433 2.01 23.43 2.01  
5.467 2.68 11.467 35.51 17.467 2.01 23.47 2.01  
5.500 2.68 11.500 35.51 17.500 2.01 23.50 2.01  
5.533 2.68 11.533 35.51 17.533 2.01 23.53 2.01  
5.567 2.68 11.567 35.51 17.567 2.01 23.57 2.01  
5.600 2.68 11.600 35.56 17.600 2.01 23.60 2.01  
5.633 2.68 11.633 73.70 17.633 2.68 23.63 1.34  
5.667 2.68 11.667 73.70 17.667 2.68 23.67 1.34  
5.700 2.68 11.700 73.70 17.700 2.68 23.70 1.34  
5.733 2.68 11.733 73.70 17.733 2.68 23.73 1.34  
5.767 2.68 11.767 73.70 17.767 2.68 23.77 1.34  
5.800 2.68 11.800 73.80 17.800 2.68 23.80 1.34  
5.833 2.68 11.833 150.75 17.833 2.01 23.83 1.34  
5.867 2.68 11.867 150.75 17.867 2.01 23.87 1.34  
5.900 2.68 11.900 150.75 17.900 2.01 23.90 1.34  
5.933 2.68 11.933 150.75 17.933 2.01 23.93 1.34  
5.967 2.68 11.967 150.75 17.967 2.01 23.97 1.34  
6.000 2.68 12.000 150.58 18.000 2.01 24.00 1.34

Unit Hyd Qpeak (cms)= 0.218

PEAK FLOW (cms)= 0.255 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 91.371  
TOTAL RAINFALL (mm)= 133.999  
RUNOFF COEFFICIENT = 0.682

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0031) |  
| 1 + 2 = 3 |  
-----  
ID1= 1 ( 0030): 3.94 0.799 12.10 86.62  
+ ID2= 2 ( 0303): 1.14 0.255 12.10 91.37  
=====

ID = 3 ( 0031): 5.08 1.054 12.10 87.69

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR( 0201) | OVERFLOW IS OFF  
| IN= 2--> OUT= 1 |  
| DT= 2.0 min |  
-----  
OUTFLOW STORAGE | OUTFLOW STORAGE  
(cms) (ha.m.) | (cms) (ha.m.)  
0.0000 0.0000 | 0.0840 0.3591  
0.0050 0.0623 | 0.0920 0.4212  
0.0470 0.1654 | 0.5950 0.4851  
0.0680 0.2596 | 2.6870 0.6182  
-----  
AREA QPEAK TPEAK R.V.  
(ha) (cms) (hrs) (mm)

|                                         |               |       |                      |       |
|-----------------------------------------|---------------|-------|----------------------|-------|
| INFLOW : ID= 2 ( 0031)                  | 5.080         | 1.054 | 12.10                | 87.69 |
| OUTFLOW: ID= 1 ( 0201)                  | 5.080         | 0.071 | 14.20                | 82.04 |
| PEAK FLOW REDUCTION [Qout/Qin](%)= 6.75 |               |       |                      |       |
| TIME SHIFT OF PEAK FLOW (min)=126.00    |               |       |                      |       |
| MAXIMUM STORAGE USED (ha.m.)= 0.2792    |               |       |                      |       |
| -----                                   |               |       |                      |       |
| CALIB                                   |               |       |                      |       |
| NASHYD ( 0502)                          | Area (ha)=    | 0.53  | Curve Number (CN)=   | 71.0  |
| ID= 1 DT= 2.0 min                       | Ia (mm)=      | 8.00  | # of Linear Res.(N)= | 3.00  |
|                                         | U.H. Tp(hrs)= | 0.22  |                      |       |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                              | 1.34  | 6.033 | 2.68  | 12.033 | 26.80 | 18.03 | 2.01  |
| 0.067                              | 1.34  | 6.067 | 2.68  | 12.067 | 26.80 | 18.07 | 2.01  |
| 0.100                              | 1.34  | 6.100 | 2.68  | 12.100 | 26.80 | 18.10 | 2.01  |
| 0.133                              | 1.34  | 6.133 | 2.68  | 12.133 | 26.80 | 18.13 | 2.01  |
| 0.167                              | 1.34  | 6.167 | 2.68  | 12.167 | 26.80 | 18.17 | 2.01  |
| 0.200                              | 1.34  | 6.200 | 2.68  | 12.200 | 26.79 | 18.20 | 2.01  |
| 0.233                              | 1.34  | 6.233 | 2.68  | 12.233 | 16.75 | 18.23 | 2.01  |
| 0.267                              | 1.34  | 6.267 | 2.68  | 12.267 | 16.75 | 18.27 | 2.01  |
| 0.300                              | 1.34  | 6.300 | 2.68  | 12.300 | 16.75 | 18.30 | 2.01  |
| 0.333                              | 1.34  | 6.333 | 2.68  | 12.333 | 16.75 | 18.33 | 2.01  |
| 0.367                              | 1.34  | 6.367 | 2.68  | 12.367 | 16.75 | 18.37 | 2.01  |
| 0.400                              | 1.34  | 6.400 | 2.68  | 12.400 | 16.74 | 18.40 | 2.01  |
| 0.433                              | 1.34  | 6.433 | 2.68  | 12.433 | 12.06 | 18.43 | 2.68  |
| 0.467                              | 1.34  | 6.467 | 2.68  | 12.467 | 12.06 | 18.47 | 2.68  |
| 0.500                              | 1.34  | 6.500 | 2.68  | 12.500 | 12.06 | 18.50 | 2.68  |
| 0.533                              | 1.34  | 6.533 | 2.68  | 12.533 | 12.06 | 18.53 | 2.68  |
| 0.567                              | 1.34  | 6.567 | 2.68  | 12.567 | 12.06 | 18.57 | 2.68  |
| 0.600                              | 1.34  | 6.600 | 2.68  | 12.600 | 12.06 | 18.60 | 2.68  |
| 0.633                              | 1.34  | 6.633 | 2.68  | 12.633 | 11.39 | 18.63 | 2.01  |
| 0.667                              | 1.34  | 6.667 | 2.68  | 12.667 | 11.39 | 18.67 | 2.01  |
| 0.700                              | 1.34  | 6.700 | 2.68  | 12.700 | 11.39 | 18.70 | 2.01  |
| 0.733                              | 1.34  | 6.733 | 2.68  | 12.733 | 11.39 | 18.73 | 2.01  |
| 0.767                              | 1.34  | 6.767 | 2.68  | 12.767 | 11.39 | 18.77 | 2.01  |
| 0.800                              | 1.34  | 6.800 | 2.68  | 12.800 | 11.39 | 18.80 | 2.01  |
| 0.833                              | 1.34  | 6.833 | 2.68  | 12.833 | 8.04  | 18.83 | 2.01  |
| 0.867                              | 1.34  | 6.867 | 2.68  | 12.867 | 8.04  | 18.87 | 2.01  |
| 0.900                              | 1.34  | 6.900 | 2.68  | 12.900 | 8.04  | 18.90 | 2.01  |
| 0.933                              | 1.34  | 6.933 | 2.68  | 12.933 | 8.04  | 18.93 | 2.01  |
| 0.967                              | 1.34  | 6.967 | 2.68  | 12.967 | 8.04  | 18.97 | 2.01  |
| 1.000                              | 1.34  | 7.000 | 2.68  | 13.000 | 8.04  | 19.00 | 2.01  |
| 1.033                              | 1.34  | 7.033 | 2.68  | 13.033 | 6.70  | 19.03 | 2.68  |
| 1.067                              | 1.34  | 7.067 | 2.68  | 13.067 | 6.70  | 19.07 | 2.68  |
| 1.100                              | 1.34  | 7.100 | 2.68  | 13.100 | 6.70  | 19.10 | 2.68  |
| 1.133                              | 1.34  | 7.133 | 2.68  | 13.133 | 6.70  | 19.13 | 2.68  |
| 1.167                              | 1.34  | 7.167 | 2.68  | 13.167 | 6.70  | 19.17 | 2.68  |
| 1.200                              | 1.34  | 7.200 | 2.68  | 13.200 | 6.70  | 19.20 | 2.68  |
| 1.233                              | 1.34  | 7.233 | 2.68  | 13.233 | 6.70  | 19.23 | 2.01  |
| 1.267                              | 1.34  | 7.267 | 2.68  | 13.267 | 6.70  | 19.27 | 2.01  |
| 1.300                              | 1.34  | 7.300 | 2.68  | 13.300 | 6.70  | 19.30 | 2.01  |
| 1.333                              | 1.34  | 7.333 | 2.68  | 13.333 | 6.70  | 19.33 | 2.01  |
| 1.367                              | 1.34  | 7.367 | 2.68  | 13.367 | 6.70  | 19.37 | 2.01  |
| 1.400                              | 1.34  | 7.400 | 2.68  | 13.400 | 6.70  | 19.40 | 2.01  |
| 1.433                              | 1.34  | 7.433 | 2.68  | 13.433 | 6.70  | 19.43 | 2.68  |
| 1.467                              | 1.34  | 7.467 | 2.68  | 13.467 | 6.70  | 19.47 | 2.68  |
| 1.500                              | 1.34  | 7.500 | 2.68  | 13.500 | 6.70  | 19.50 | 2.68  |
| 1.533                              | 1.34  | 7.533 | 2.68  | 13.533 | 6.70  | 19.53 | 2.68  |
| 1.567                              | 1.34  | 7.567 | 2.68  | 13.567 | 6.70  | 19.57 | 2.68  |
| 1.600                              | 1.34  | 7.600 | 2.68  | 13.600 | 6.70  | 19.60 | 2.68  |
| 1.633                              | 1.34  | 7.633 | 2.68  | 13.633 | 6.70  | 19.63 | 2.01  |
| 1.667                              | 1.34  | 7.667 | 2.68  | 13.667 | 6.70  | 19.67 | 2.01  |
| 1.700                              | 1.34  | 7.700 | 2.68  | 13.700 | 6.70  | 19.70 | 2.01  |
| 1.733                              | 1.34  | 7.733 | 2.68  | 13.733 | 6.70  | 19.73 | 2.01  |
| 1.767                              | 1.34  | 7.767 | 2.68  | 13.767 | 6.70  | 19.77 | 2.01  |
| 1.800                              | 1.34  | 7.800 | 2.68  | 13.800 | 6.70  | 19.80 | 2.01  |
| 1.833                              | 1.34  | 7.833 | 2.68  | 13.833 | 6.70  | 19.83 | 2.68  |
| 1.867                              | 1.34  | 7.867 | 2.68  | 13.867 | 6.70  | 19.87 | 2.68  |
| 1.900                              | 1.34  | 7.900 | 2.68  | 13.900 | 6.70  | 19.90 | 2.68  |
| 1.933                              | 1.34  | 7.933 | 2.68  | 13.933 | 6.70  | 19.93 | 2.68  |
| 1.967                              | 1.34  | 7.967 | 2.68  | 13.967 | 6.70  | 19.97 | 2.68  |
| 2.000                              | 1.34  | 8.000 | 2.68  | 14.000 | 6.69  | 20.00 | 2.68  |
| 2.033                              | 1.34  | 8.033 | 4.02  | 14.033 | 4.02  | 20.03 | 2.01  |
| 2.067                              | 1.34  | 8.067 | 4.02  | 14.067 | 4.02  | 20.07 | 2.01  |
| 2.100                              | 1.34  | 8.100 | 4.02  | 14.100 | 4.02  | 20.10 | 2.01  |
| 2.133                              | 1.34  | 8.133 | 4.02  | 14.133 | 4.02  | 20.13 | 2.01  |
| 2.167                              | 1.34  | 8.167 | 4.02  | 14.167 | 4.02  | 20.17 | 2.01  |
| 2.200                              | 1.34  | 8.200 | 4.02  | 14.200 | 4.02  | 20.20 | 2.01  |
| 2.233                              | 1.34  | 8.233 | 4.02  | 14.233 | 4.02  | 20.23 | 2.01  |
| 2.267                              | 1.34  | 8.267 | 4.02  | 14.267 | 4.02  | 20.27 | 2.01  |
| 2.300                              | 1.34  | 8.300 | 4.02  | 14.300 | 4.02  | 20.30 | 2.01  |
| 2.333                              | 1.34  | 8.333 | 4.02  | 14.333 | 4.02  | 20.33 | 2.01  |
| 2.367                              | 1.34  | 8.367 | 4.02  | 14.367 | 4.02  | 20.37 | 2.01  |
| 2.400                              | 1.34  | 8.400 | 4.02  | 14.400 | 4.02  | 20.40 | 2.01  |
| 2.433                              | 1.34  | 8.433 | 4.02  | 14.433 | 4.02  | 20.43 | 1.34  |
| 2.467                              | 1.34  | 8.467 | 4.02  | 14.467 | 4.02  | 20.47 | 1.34  |
| 2.500                              | 1.34  | 8.500 | 4.02  | 14.500 | 4.02  | 20.50 | 1.34  |
| 2.533                              | 1.34  | 8.533 | 4.02  | 14.533 | 4.02  | 20.53 | 1.34  |
| 2.567                              | 1.34  | 8.567 | 4.02  | 14.567 | 4.02  | 20.57 | 1.34  |
| 2.600                              | 1.34  | 8.600 | 4.02  | 14.600 | 4.02  | 20.60 | 1.34  |
| 2.633                              | 1.34  | 8.633 | 4.02  | 14.633 | 4.02  | 20.63 | 2.01  |
| 2.667                              | 1.34  | 8.667 | 4.02  | 14.667 | 4.02  | 20.67 | 2.01  |
| 2.700                              | 1.34  | 8.700 | 4.02  | 14.700 | 4.02  | 20.70 | 2.01  |
| 2.733                              | 1.34  | 8.733 | 4.02  | 14.733 | 4.02  | 20.73 | 2.01  |
| 2.767                              | 1.34  | 8.767 | 4.02  | 14.767 | 4.02  | 20.77 | 2.01  |
| 2.800                              | 1.34  | 8.800 | 4.02  | 14.800 | 4.02  | 20.80 | 2.01  |
| 2.833                              | 1.34  | 8.833 | 4.02  | 14.833 | 4.02  | 20.83 | 2.01  |
| 2.867                              | 1.34  | 8.867 | 4.02  | 14.867 | 4.02  | 20.87 | 2.01  |
| 2.900                              | 1.34  | 8.900 | 4.02  | 14.900 | 4.02  | 20.90 | 2.01  |
| 2.933                              | 1.34  | 8.933 | 4.02  | 14.933 | 4.02  | 20.93 | 2.01  |
| 2.967                              | 1.34  | 8.967 | 4.02  | 14.967 | 4.02  | 20.97 | 2.01  |
| 3.000                              | 1.34  | 9.000 | 4.02  | 15.000 | 4.02  | 21.00 | 2.01  |
| 3.033                              | 1.34  | 9.033 | 4.02  | 15.033 | 3.35  | 21.03 | 1.34  |
| 3.067                              | 1.34  | 9.067 | 4.02  | 15.067 | 3.35  | 21.07 | 1.34  |
| 3.100                              | 1.34  | 9.100 | 4.02  | 15.100 | 3.35  | 21.10 | 1.34  |
| 3.133                              | 1.34  | 9.133 | 4.02  | 15.133 | 3.35  | 21.13 | 1.34  |
| 3.167                              | 1.34  | 9.167 | 4.02  | 15.167 | 3.35  | 21.17 | 1.34  |
| 3.200                              | 1.34  | 9.200 | 4.02  | 15.200 | 3.35  | 21.20 | 1.34  |
| 3.233                              | 1.34  | 9.233 | 4.02  | 15.233 | 3.35  | 21.23 | 2.01  |
| 3.267                              | 1.34  | 9.267 | 4.02  | 15.267 | 3.35  | 21.27 | 2.01  |
| 3.300                              | 1.34  | 9.300 | 4.02  | 15.300 | 3.35  | 21.30 | 2.01  |
| 3.333                              | 1.34  | 9.333 | 4.02  | 15.333 | 3.35  | 21.33 | 2.01  |
| 3.367                              | 1.34  | 9.367 | 4.02  | 15.367 | 3.35  | 21.37 | 2.01  |
| 3.400                              | 1.34  | 9.400 | 4.02  | 15.400 | 3.35  | 21.40 | 2.01  |
| 3.433                              | 1.34  | 9.433 | 4.02  | 15.433 | 3.35  | 21.43 | 1.34  |
| 3.467                              | 1.34  | 9.467 | 4.02  | 15.467 | 3.35  | 21.47 | 1.34  |
| 3.500                              | 1.34  | 9.500 | 4.02  | 15.500 | 3.35  | 21.50 | 1.34  |
| 3.533                              | 1.34  | 9.533 | 4.02  | 15.533 | 3.35  | 21.53 | 1.34  |
| 3.567                              | 1.34  | 9.567 | 4.02  | 15.567 | 3.35  | 21.57 | 1.34  |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 3.600 | 1.34 | 9.600  | 4.02   | 15.600 | 3.35 | 21.60 | 1.34 |
| 3.633 | 1.34 | 9.633  | 4.02   | 15.633 | 3.35 | 21.63 | 2.01 |
| 3.667 | 1.34 | 9.667  | 4.02   | 15.667 | 3.35 | 21.67 | 2.01 |
| 3.700 | 1.34 | 9.700  | 4.02   | 15.700 | 3.35 | 21.70 | 2.01 |
| 3.733 | 1.34 | 9.733  | 4.02   | 15.733 | 3.35 | 21.73 | 2.01 |
| 3.767 | 1.34 | 9.767  | 4.02   | 15.767 | 3.35 | 21.77 | 2.01 |
| 3.800 | 1.34 | 9.800  | 4.02   | 15.800 | 3.35 | 21.80 | 2.01 |
| 3.833 | 1.34 | 9.833  | 4.02   | 15.833 | 3.35 | 21.83 | 1.34 |
| 3.867 | 1.34 | 9.867  | 4.02   | 15.867 | 3.35 | 21.87 | 1.34 |
| 3.900 | 1.34 | 9.900  | 4.02   | 15.900 | 3.35 | 21.90 | 1.34 |
| 3.933 | 1.34 | 9.933  | 4.02   | 15.933 | 3.35 | 21.93 | 1.34 |
| 3.967 | 1.34 | 9.967  | 4.02   | 15.967 | 3.35 | 21.97 | 1.34 |
| 4.000 | 1.34 | 10.000 | 4.02   | 16.000 | 3.35 | 22.00 | 1.34 |
| 4.033 | 2.68 | 10.033 | 7.37   | 16.033 | 3.35 | 22.03 | 1.34 |
| 4.067 | 2.68 | 10.067 | 7.37   | 16.067 | 3.35 | 22.07 | 1.34 |
| 4.100 | 2.68 | 10.100 | 7.37   | 16.100 | 3.35 | 22.10 | 1.34 |
| 4.133 | 2.68 | 10.133 | 7.37   | 16.133 | 3.35 | 22.13 | 1.34 |
| 4.167 | 2.68 | 10.167 | 7.37   | 16.167 | 3.35 | 22.17 | 1.34 |
| 4.200 | 2.68 | 10.200 | 7.37   | 16.200 | 3.35 | 22.20 | 1.34 |
| 4.233 | 2.68 | 10.233 | 7.37   | 16.233 | 3.35 | 22.23 | 2.01 |
| 4.267 | 2.68 | 10.267 | 7.37   | 16.267 | 3.35 | 22.27 | 2.01 |
| 4.300 | 2.68 | 10.300 | 7.37   | 16.300 | 3.35 | 22.30 | 2.01 |
| 4.333 | 2.68 | 10.333 | 7.37   | 16.333 | 3.35 | 22.33 | 2.01 |
| 4.367 | 2.68 | 10.367 | 7.37   | 16.367 | 3.35 | 22.37 | 2.01 |
| 4.400 | 2.68 | 10.400 | 7.37   | 16.400 | 3.35 | 22.40 | 2.01 |
| 4.433 | 2.68 | 10.433 | 7.37   | 16.433 | 3.35 | 22.43 | 1.34 |
| 4.467 | 2.68 | 10.467 | 7.37   | 16.467 | 3.35 | 22.47 | 1.34 |
| 4.500 | 2.68 | 10.500 | 7.37   | 16.500 | 3.35 | 22.50 | 1.34 |
| 4.533 | 2.68 | 10.533 | 7.37   | 16.533 | 3.35 | 22.53 | 1.34 |
| 4.567 | 2.68 | 10.567 | 7.37   | 16.567 | 3.35 | 22.57 | 1.34 |
| 4.600 | 2.68 | 10.600 | 7.37   | 16.600 | 3.35 | 22.60 | 1.34 |
| 4.633 | 2.68 | 10.633 | 7.37   | 16.633 | 3.35 | 22.63 | 2.01 |
| 4.667 | 2.68 | 10.667 | 7.37   | 16.667 | 3.35 | 22.67 | 2.01 |
| 4.700 | 2.68 | 10.700 | 7.37   | 16.700 | 3.35 | 22.70 | 2.01 |
| 4.733 | 2.68 | 10.733 | 7.37   | 16.733 | 3.35 | 22.73 | 2.01 |
| 4.767 | 2.68 | 10.767 | 7.37   | 16.767 | 3.35 | 22.77 | 2.01 |
| 4.800 | 2.68 | 10.800 | 7.37   | 16.800 | 3.35 | 22.80 | 2.01 |
| 4.833 | 2.68 | 10.833 | 7.37   | 16.833 | 2.01 | 22.83 | 1.34 |
| 4.867 | 2.68 | 10.867 | 7.37   | 16.867 | 2.01 | 22.87 | 1.34 |
| 4.900 | 2.68 | 10.900 | 7.37   | 16.900 | 2.01 | 22.90 | 1.34 |
| 4.933 | 2.68 | 10.933 | 7.37   | 16.933 | 2.01 | 22.93 | 1.34 |
| 4.967 | 2.68 | 10.967 | 7.37   | 16.967 | 2.01 | 22.97 | 1.34 |
| 5.000 | 2.68 | 11.000 | 7.37   | 17.000 | 2.01 | 23.00 | 1.34 |
| 5.033 | 2.68 | 11.033 | 10.05  | 17.033 | 2.01 | 23.03 | 1.34 |
| 5.067 | 2.68 | 11.067 | 10.05  | 17.067 | 2.01 | 23.07 | 1.34 |
| 5.100 | 2.68 | 11.100 | 10.05  | 17.100 | 2.01 | 23.10 | 1.34 |
| 5.133 | 2.68 | 11.133 | 10.05  | 17.133 | 2.01 | 23.13 | 1.34 |
| 5.167 | 2.68 | 11.167 | 10.05  | 17.167 | 2.01 | 23.17 | 1.34 |
| 5.200 | 2.68 | 11.200 | 10.06  | 17.200 | 2.01 | 23.20 | 1.34 |
| 5.233 | 2.68 | 11.233 | 14.74  | 17.233 | 2.68 | 23.23 | 1.34 |
| 5.267 | 2.68 | 11.267 | 14.74  | 17.267 | 2.68 | 23.27 | 1.34 |
| 5.300 | 2.68 | 11.300 | 14.74  | 17.300 | 2.68 | 23.30 | 1.34 |
| 5.333 | 2.68 | 11.333 | 14.74  | 17.333 | 2.68 | 23.33 | 1.34 |
| 5.367 | 2.68 | 11.367 | 14.74  | 17.367 | 2.68 | 23.37 | 1.34 |
| 5.400 | 2.68 | 11.400 | 14.76  | 17.400 | 2.68 | 23.40 | 1.34 |
| 5.433 | 2.68 | 11.433 | 35.51  | 17.433 | 2.01 | 23.43 | 2.01 |
| 5.467 | 2.68 | 11.467 | 35.51  | 17.467 | 2.01 | 23.47 | 2.01 |
| 5.500 | 2.68 | 11.500 | 35.51  | 17.500 | 2.01 | 23.50 | 2.01 |
| 5.533 | 2.68 | 11.533 | 35.51  | 17.533 | 2.01 | 23.53 | 2.01 |
| 5.567 | 2.68 | 11.567 | 35.51  | 17.567 | 2.01 | 23.57 | 2.01 |
| 5.600 | 2.68 | 11.600 | 35.56  | 17.600 | 2.01 | 23.60 | 2.01 |
| 5.633 | 2.68 | 11.633 | 73.70  | 17.633 | 2.68 | 23.63 | 1.34 |
| 5.667 | 2.68 | 11.667 | 73.70  | 17.667 | 2.68 | 23.67 | 1.34 |
| 5.700 | 2.68 | 11.700 | 73.70  | 17.700 | 2.68 | 23.70 | 1.34 |
| 5.733 | 2.68 | 11.733 | 73.70  | 17.733 | 2.68 | 23.73 | 1.34 |
| 5.767 | 2.68 | 11.767 | 73.70  | 17.767 | 2.68 | 23.77 | 1.34 |
| 5.800 | 2.68 | 11.800 | 73.80  | 17.800 | 2.68 | 23.80 | 1.34 |
| 5.833 | 2.68 | 11.833 | 150.75 | 17.833 | 2.01 | 23.83 | 1.34 |
| 5.867 | 2.68 | 11.867 | 150.75 | 17.867 | 2.01 | 23.87 | 1.34 |
| 5.900 | 2.68 | 11.900 | 150.75 | 17.900 | 2.01 | 23.90 | 1.34 |
| 5.933 | 2.68 | 11.933 | 150.75 | 17.933 | 2.01 | 23.93 | 1.34 |
| 5.967 | 2.68 | 11.967 | 150.75 | 17.967 | 2.01 | 23.97 | 1.34 |
| 6.000 | 2.68 | 12.000 | 150.58 | 18.000 | 2.01 | 24.00 | 1.34 |

1.033 1.34 7.033 2.68 13.033 6.70 19.03 2.68  
1.067 1.34 7.067 2.68 13.067 6.70 19.07 2.68  
1.100 1.34 7.100 2.68 13.100 6.70 19.10 2.68  
1.133 1.34 7.133 2.68 13.133 6.70 19.13 2.68  
1.167 1.34 7.167 2.68 13.167 6.70 19.17 2.68  
1.200 1.34 7.200 2.68 13.200 6.70 19.20 2.68  
1.233 1.34 7.233 2.68 13.233 6.70 19.23 2.01  
1.267 1.34 7.267 2.68 13.267 6.70 19.27 2.01  
1.300 1.34 7.300 2.68 13.300 6.70 19.30 2.01  
1.333 1.34 7.333 2.68 13.333 6.70 19.33 2.01  
1.367 1.34 7.367 2.68 13.367 6.70 19.37 2.01  
1.400 1.34 7.400 2.68 13.400 6.70 19.40 2.01  
1.433 1.34 7.433 2.68 13.433 6.70 19.43 2.68  
1.467 1.34 7.467 2.68 13.467 6.70 19.47 2.68  
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1.633 1.34 7.633 2.68 13.633 6.70 19.63 2.01  
1.667 1.34 7.667 2.68 13.667 6.70 19.67 2.01  
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1.733 1.34 7.733 2.68 13.733 6.70 19.73 2.01  
1.767 1.34 7.767 2.68 13.767 6.70 19.77 2.01  
1.800 1.34 7.800 2.68 13.800 6.70 19.80 2.01  
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2.033 1.34 8.033 4.02 14.033 4.02 20.03 2.01  
2.067 1.34 8.067 4.02 14.067 4.02 20.07 2.01  
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2.133 1.34 8.133 4.02 14.133 4.02 20.13 2.01  
2.167 1.34 8.167 4.02 14.167 4.02 20.17 2.01  
2.200 1.34 8.200 4.02 14.200 4.02 20.20 2.01  
2.233 1.34 8.233 4.02 14.233 4.02 20.23 2.01  
2.267 1.34 8.267 4.02 14.267 4.02 20.27 2.01  
2.300 1.34 8.300 4.02 14.300 4.02 20.30 2.01  
2.333 1.34 8.333 4.02 14.333 4.02 20.33 2.01  
2.367 1.34 8.367 4.02 14.367 4.02 20.37 2.01  
2.400 1.34 8.400 4.02 14.400 4.02 20.40 2.01  
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2.467 1.34 8.467 4.02 14.467 4.02 20.47 1.34  
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2.533 1.34 8.533 4.02 14.533 4.02 20.53 1.34  
2.567 1.34 8.567 4.02 14.567 4.02 20.57 1.34  
2.600 1.34 8.600 4.02 14.600 4.02 20.60 1.34  
2.633 1.34 8.633 4.02 14.633 4.02 20.63 2.01  
2.667 1.34 8.667 4.02 14.667 4.02 20.67 2.01  
2.700 1.34 8.700 4.02 14.700 4.02 20.70 2.01  
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2.767 1.34 8.767 4.02 14.767 4.02 20.77 2.01  
2.800 1.34 8.800 4.02 14.800 4.02 20.80 2.01  
2.833 1.34 8.833 4.02 14.833 4.02 20.83 2.01  
2.867 1.34 8.867 4.02 14.867 4.02 20.87 2.01  
2.900 1.34 8.900 4.02 14.900 4.02 20.90 2.01  
2.933 1.34 8.933 4.02 14.933 4.02 20.93 2.01  
2.967 1.34 8.967 4.02 14.967 4.02 20.97 2.01  
3.000 1.34 9.000 4.02 15.000 4.02 21.00 2.01  
3.033 1.34 9.033 4.02 15.033 3.35 21.03 1.34  
3.067 1.34 9.067 4.02 15.067 3.35 21.07 1.34  
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3.167 1.34 9.167 4.02 15.167 3.35 21.17 1.34  
3.200 1.34 9.200 4.02 15.200 3.35 21.20 1.34  
3.233 1.34 9.233 4.02 15.233 3.35 21.23 2.01  
3.267 1.34 9.267 4.02 15.267 3.35 21.27 2.01  
3.300 1.34 9.300 4.02 15.300 3.35 21.30 2.01  
3.333 1.34 9.333 4.02 15.333 3.35 21.33 2.01  
3.367 1.34 9.367 4.02 15.367 3.35 21.37 2.01  
3.400 1.34 9.400 4.02 15.400 3.35 21.40 2.01  
3.433 1.34 9.433 4.02 15.433 3.35 21.43 1.34  
3.467 1.34 9.467 4.02 15.467 3.35 21.47 1.34  
3.500 1.34 9.500 4.02 15.500 3.35 21.50 1.34  
3.533 1.34 9.533 4.02 15.533 3.35 21.53 1.34  
3.567 1.34 9.567 4.02 15.567 3.35 21.57 1.34  
3.600 1.34 9.600 4.02 15.600 3.35 21.60 1.34  
3.633 1.34 9.633 4.02 15.633 3.35 21.63 2.01  
3.667 1.34 9.667 4.02 15.667 3.35 21.67 2.01  
3.700 1.34 9.700 4.02 15.700 3.35 21.70 2.01  
3.733 1.34 9.733 4.02 15.733 3.35 21.73 2.01  
3.767 1.34 9.767 4.02 15.767 3.35 21.77 2.01  
3.800 1.34 9.800 4.02 15.800 3.35 21.80 2.01  
3.833 1.34 9.833 4.02 15.833 3.35 21.83 1.34  
3.867 1.34 9.867 4.02 15.867 3.35 21.87 1.34  
3.900 1.34 9.900 4.02 15.900 3.35 21.90 1.34  
3.933 1.34 9.933 4.02 15.933 3.35 21.93 1.34  
3.967 1.34 9.967 4.02 15.967 3.35 21.97 1.34  
4.000 1.34 10.000 4.02 16.000 3.35 22.00 1.34  
4.033 2.68 10.033 7.37 16.033 3.35 22.03 1.34  
4.067 2.68 10.067 7.37 16.067 3.35 22.07 1.34  
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4.267 2.68 10.267 7.37 16.267 3.35 22.27 2.01  
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4.367 2.68 10.367 7.37 16.367 3.35 22.37 2.01  
4.400 2.68 10.400 7.37 16.400 3.35 22.40 2.01  
4.433 2.68 10.433 7.37 16.433 3.35 22.43 1.34  
4.467 2.68 10.467 7.37 16.467 3.35 22.47 1.34  
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4.767 2.68 10.767 7.37 16.767 3.35 22.77 2.01  
4.800 2.68 10.800 7.37 16.800 3.35 22.80 2.01  
4.833 2.68 10.833 7.37 16.833 2.01 22.83 1.34  
4.867 2.68 10.867 7.37 16.867 2.01 22.87 1.34  
4.900 2.68 10.900 7.37 16.900 2.01 22.90 1.34  
4.933 2.68 10.933 7.37 16.933 2.01 22.93 1.34  
4.967 2.68 10.967 7.37 16.967 2.01 22.97 1.34  
5.000 2.68 11.000 7.37 17.000 2.01 23.00 1.34  
5.033 2.68 11.033 10.05 17.033 2.01 23.03 1.34  
5.067 2.68 11.067 10.05 17.067 2.01 23.07 1.34  
5.100 2.68 11.100 10.05 17.100 2.01 23.10 1.34  
5.133 2.68 11.133 10.05 17.133 2.01 23.13 1.34  
5.167 2.68 11.167 10.05 17.167 2.01 23.17 1.34  
5.200 2.68 11.200 10.06 17.200 2.01 23.20 1.34  
5.233 2.68 11.233 14.74 17.233 2.68 23.23 1.34

5.267 2.68 11.267 14.74 17.267 2.68 23.27 1.34  
5.300 2.68 11.300 14.74 17.300 2.68 23.30 1.34  
5.333 2.68 11.333 14.74 17.333 2.68 23.33 1.34  
5.367 2.68 11.367 14.74 17.367 2.68 23.37 1.34  
5.400 2.68 11.400 14.76 17.400 2.68 23.40 1.34  
5.433 2.68 11.433 35.51 17.433 2.01 23.43 2.01  
5.467 2.68 11.467 35.51 17.467 2.01 23.47 2.01  
5.500 2.68 11.500 35.51 17.500 2.01 23.50 2.01  
5.533 2.68 11.533 35.51 17.533 2.01 23.53 2.01  
5.567 2.68 11.567 35.51 17.567 2.01 23.57 2.01  
5.600 2.68 11.600 35.56 17.600 2.01 23.60 2.01  
5.633 2.68 11.633 73.70 17.633 2.68 23.63 1.34  
5.667 2.68 11.667 73.70 17.667 2.68 23.67 1.34  
5.700 2.68 11.700 73.70 17.700 2.68 23.70 1.34  
5.733 2.68 11.733 73.70 17.733 2.68 23.73 1.34  
5.767 2.68 11.767 73.70 17.767 2.68 23.77 1.34  
5.800 2.68 11.800 73.80 17.800 2.68 23.80 1.34  
5.833 2.68 11.833 150.75 17.833 2.01 23.83 1.34  
5.867 2.68 11.867 150.75 17.867 2.01 23.87 1.34  
5.900 2.68 11.900 150.75 17.900 2.01 23.90 1.34  
5.933 2.68 11.933 150.75 17.933 2.01 23.93 1.34  
5.967 2.68 11.967 150.75 17.967 2.01 23.97 1.34  
6.000 2.68 12.000 150.58 18.000 2.01 24.00 1.34

Unit Hyd Qpeak (cms)= 0.793

PEAK FLOW (cms)= 0.922 (i)  
TIME TO PEAK (hrs)= 12.300  
RUNOFF VOLUME (mm)= 69.102  
TOTAL RAINFALL (mm)= 133.999  
RUNOFF COEFFICIENT = 0.516

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0032)  
1 + 2 = 3  
ID1= 1 ( 0501): AREA (ha) QPEAK (cms) TPEAK (hrs) R.V. (mm)  
+ ID2= 2 ( 0502): 8.72 0.922 12.30 69.10  
ID = 3 ( 0032): 9.25 0.985 12.30 69.10

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD ( 0033)  
1 + 2 = 3  
ID1= 1 ( 0201): AREA (ha) QPEAK (cms) TPEAK (hrs) R.V. (mm)  
+ ID2= 2 ( 0032): 5.08 0.071 14.20 82.04  
ID = 3 ( 0033): 9.25 0.985 12.30 69.10

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB NASHDY ( 0401) Area (ha)= 5.97 Curve Number (CN)= 81.0  
ID= 1 DT= 2.0 min Ia (mm)= 6.90 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.16

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.033 1.34 6.033 2.68 12.033 26.80 18.03 2.01  
0.067 1.34 6.067 2.68 12.067 26.80 18.07 2.01  
0.100 1.34 6.100 2.68 12.100 26.80 18.10 2.01  
0.133 1.34 6.133 2.68 12.133 26.80 18.13 2.01  
0.167 1.34 6.167 2.68 12.167 26.80 18.17 2.01  
0.200 1.34 6.200 2.68 12.200 26.79 18.20 2.01  
0.233 1.34 6.233 2.68 12.233 16.75 18.23 2.01  
0.267 1.34 6.267 2.68 12.267 16.75 18.27 2.01  
0.300 1.34 6.300 2.68 12.300 16.75 18.30 2.01  
0.333 1.34 6.333 2.68 12.333 16.75 18.33 2.01  
0.367 1.34 6.367 2.68 12.367 16.75 18.37 2.01  
0.400 1.34 6.400 2.68 12.400 16.74 18.40 2.01  
0.433 1.34 6.433 2.68 12.433 12.06 18.43 2.68  
0.467 1.34 6.467 2.68 12.467 12.06 18.47 2.68  
0.500 1.34 6.500 2.68 12.500 12.06 18.50 2.68  
0.533 1.34 6.533 2.68 12.533 12.06 18.53 2.68  
0.567 1.34 6.567 2.68 12.567 12.06 18.57 2.68  
0.600 1.34 6.600 2.68 12.600 12.06 18.60 2.68  
0.633 1.34 6.633 2.68 12.633 11.39 18.63 2.01  
0.667 1.34 6.667 2.68 12.667 11.39 18.67 2.01  
0.700 1.34 6.700 2.68 12.700 11.39 18.70 2.01  
0.733 1.34 6.733 2.68 12.733 11.39 18.73 2.01  
0.767 1.34 6.767 2.68 12.767 11.39 18.77 2.01  
0.800 1.34 6.800 2.68 12.800 11.38 18.80 2.01  
0.833 1.34 6.833 2.68 12.833 8.04 18.83 2.01  
0.867 1.34 6.867 2.68 12.867 8.04 18.87 2.01  
0.900 1.34 6.900 2.68 12.900 8.04 18.90 2.01  
0.933 1.34 6.933 2.68 12.933 8.04 18.93 2.01  
0.967 1.34 6.967 2.68 12.967 8.04 18.97 2.01  
1.000 1.34 7.000 2.68 13.000 8.04 19.00 2.01  
1.033 1.34 7.033 2.68 13.033 6.70 19.03 2.68  
1.067 1.34 7.067 2.68 13.067 6.70 19.07 2.68  
1.100 1.34 7.100 2.68 13.100 6.70 19.10 2.68  
1.133 1.34 7.133 2.68 13.133 6.70 19.13 2.68  
1.167 1.34 7.167 2.68 13.167 6.70 19.17 2.68  
1.200 1.34 7.200 2.68 13.200 6.70 19.20 2.68  
1.233 1.34 7.233 2.68 13.233 6.70 19.23 2.01  
1.267 1.34 7.267 2.68 13.267 6.70 19.27 2.01  
1.300 1.34 7.300 2.68 13.300 6.70 19.30 2.01  
1.333 1.34 7.333 2.68 13.333 6.70 19.33 2.01  
1.367 1.34 7.367 2.68 13.367 6.70 19.37 2.01  
1.400 1.34 7.400 2.68 13.400 6.70 19.40 2.01  
1.433 1.34 7.433 2.68 13.433 6.70 19.43 2.68  
1.467 1.34 7.467 2.68 13.467 6.70 19.47 2.68  
1.500 1.34 7.500 2.68 13.500 6.70 19.50 2.68  
1.533 1.34 7.533 2.68 13.533 6.70 19.53 2.68  
1.567 1.34 7.567 2.68 13.567 6.70 19.57 2.68  
1.600 1.34 7.600 2.68 13.600 6.70 19.60 2.68  
1.633 1.34 7.633 2.68 13.633 6.70 19.63 2.01  
1.667 1.34 7.667 2.68 13.667 6.70 19.67 2.01  
1.700 1.34 7.700 2.68 13.700 6.70 19.70 2.01  
1.733 1.34 7.733 2.68 13.733 6.70 19.73 2.01  
1.767 1.34 7.767 2.68 13.767 6.70 19.77 2.01  
1.800 1.34 7.800 2.68 13.800 6.70 19.80 2.01  
1.833 1.34 7.833 2.68 13.833 6.70 19.83 2.68  
1.867 1.34 7.867 2.68 13.867 6.70 19.87 2.68

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 1.900 | 1.34 | 7.900  | 2.68   | 13.900 | 6.70 | 19.90 | 2.68 |
| 1.933 | 1.34 | 7.933  | 2.68   | 13.933 | 6.70 | 19.93 | 2.68 |
| 1.967 | 1.34 | 7.967  | 2.68   | 13.967 | 6.70 | 19.97 | 2.68 |
| 2.000 | 1.34 | 8.000  | 2.68   | 14.000 | 6.69 | 20.00 | 2.68 |
| 2.033 | 1.34 | 8.033  | 4.02   | 14.033 | 4.02 | 20.03 | 2.01 |
| 2.067 | 1.34 | 8.067  | 4.02   | 14.067 | 4.02 | 20.07 | 2.01 |
| 2.100 | 1.34 | 8.100  | 4.02   | 14.100 | 4.02 | 20.10 | 2.01 |
| 2.133 | 1.34 | 8.133  | 4.02   | 14.133 | 4.02 | 20.13 | 2.01 |
| 2.167 | 1.34 | 8.167  | 4.02   | 14.167 | 4.02 | 20.17 | 2.01 |
| 2.200 | 1.34 | 8.200  | 4.02   | 14.200 | 4.02 | 20.20 | 2.01 |
| 2.233 | 1.34 | 8.233  | 4.02   | 14.233 | 4.02 | 20.23 | 2.01 |
| 2.267 | 1.34 | 8.267  | 4.02   | 14.267 | 4.02 | 20.27 | 2.01 |
| 2.300 | 1.34 | 8.300  | 4.02   | 14.300 | 4.02 | 20.30 | 2.01 |
| 2.333 | 1.34 | 8.333  | 4.02   | 14.333 | 4.02 | 20.33 | 2.01 |
| 2.367 | 1.34 | 8.367  | 4.02   | 14.367 | 4.02 | 20.37 | 2.01 |
| 2.400 | 1.34 | 8.400  | 4.02   | 14.400 | 4.02 | 20.40 | 2.01 |
| 2.433 | 1.34 | 8.433  | 4.02   | 14.433 | 4.02 | 20.43 | 1.34 |
| 2.467 | 1.34 | 8.467  | 4.02   | 14.467 | 4.02 | 20.47 | 1.34 |
| 2.500 | 1.34 | 8.500  | 4.02   | 14.500 | 4.02 | 20.50 | 1.34 |
| 2.533 | 1.34 | 8.533  | 4.02   | 14.533 | 4.02 | 20.53 | 1.34 |
| 2.567 | 1.34 | 8.567  | 4.02   | 14.567 | 4.02 | 20.57 | 1.34 |
| 2.600 | 1.34 | 8.600  | 4.02   | 14.600 | 4.02 | 20.60 | 1.34 |
| 2.633 | 1.34 | 8.633  | 4.02   | 14.633 | 4.02 | 20.63 | 2.01 |
| 2.667 | 1.34 | 8.667  | 4.02   | 14.667 | 4.02 | 20.67 | 2.01 |
| 2.700 | 1.34 | 8.700  | 4.02   | 14.700 | 4.02 | 20.70 | 2.01 |
| 2.733 | 1.34 | 8.733  | 4.02   | 14.733 | 4.02 | 20.73 | 2.01 |
| 2.767 | 1.34 | 8.767  | 4.02   | 14.767 | 4.02 | 20.77 | 2.01 |
| 2.800 | 1.34 | 8.800  | 4.02   | 14.800 | 4.02 | 20.80 | 2.01 |
| 2.833 | 1.34 | 8.833  | 4.02   | 14.833 | 4.02 | 20.83 | 2.01 |
| 2.867 | 1.34 | 8.867  | 4.02   | 14.867 | 4.02 | 20.87 | 2.01 |
| 2.900 | 1.34 | 8.900  | 4.02   | 14.900 | 4.02 | 20.90 | 2.01 |
| 2.933 | 1.34 | 8.933  | 4.02   | 14.933 | 4.02 | 20.93 | 2.01 |
| 2.967 | 1.34 | 8.967  | 4.02   | 14.967 | 4.02 | 20.97 | 2.01 |
| 3.000 | 1.34 | 9.000  | 4.02   | 15.000 | 4.02 | 21.00 | 2.01 |
| 3.033 | 1.34 | 9.033  | 4.02   | 15.033 | 3.35 | 21.03 | 1.34 |
| 3.067 | 1.34 | 9.067  | 4.02   | 15.067 | 3.35 | 21.07 | 1.34 |
| 3.100 | 1.34 | 9.100  | 4.02   | 15.100 | 3.35 | 21.10 | 1.34 |
| 3.133 | 1.34 | 9.133  | 4.02   | 15.133 | 3.35 | 21.13 | 1.34 |
| 3.167 | 1.34 | 9.167  | 4.02   | 15.167 | 3.35 | 21.17 | 1.34 |
| 3.200 | 1.34 | 9.200  | 4.02   | 15.200 | 3.35 | 21.20 | 1.34 |
| 3.233 | 1.34 | 9.233  | 4.02   | 15.233 | 3.35 | 21.23 | 2.01 |
| 3.267 | 1.34 | 9.267  | 4.02   | 15.267 | 3.35 | 21.27 | 2.01 |
| 3.300 | 1.34 | 9.300  | 4.02   | 15.300 | 3.35 | 21.30 | 2.01 |
| 3.333 | 1.34 | 9.333  | 4.02   | 15.333 | 3.35 | 21.33 | 2.01 |
| 3.367 | 1.34 | 9.367  | 4.02   | 15.367 | 3.35 | 21.37 | 2.01 |
| 3.400 | 1.34 | 9.400  | 4.02   | 15.400 | 3.35 | 21.40 | 2.01 |
| 3.433 | 1.34 | 9.433  | 4.02   | 15.433 | 3.35 | 21.43 | 1.34 |
| 3.467 | 1.34 | 9.467  | 4.02   | 15.467 | 3.35 | 21.47 | 1.34 |
| 3.500 | 1.34 | 9.500  | 4.02   | 15.500 | 3.35 | 21.50 | 1.34 |
| 3.533 | 1.34 | 9.533  | 4.02   | 15.533 | 3.35 | 21.53 | 1.34 |
| 3.567 | 1.34 | 9.567  | 4.02   | 15.567 | 3.35 | 21.57 | 1.34 |
| 3.600 | 1.34 | 9.600  | 4.02   | 15.600 | 3.35 | 21.60 | 1.34 |
| 3.633 | 1.34 | 9.633  | 4.02   | 15.633 | 3.35 | 21.63 | 2.01 |
| 3.667 | 1.34 | 9.667  | 4.02   | 15.667 | 3.35 | 21.67 | 2.01 |
| 3.700 | 1.34 | 9.700  | 4.02   | 15.700 | 3.35 | 21.70 | 2.01 |
| 3.733 | 1.34 | 9.733  | 4.02   | 15.733 | 3.35 | 21.73 | 2.01 |
| 3.767 | 1.34 | 9.767  | 4.02   | 15.767 | 3.35 | 21.77 | 2.01 |
| 3.800 | 1.34 | 9.800  | 4.02   | 15.800 | 3.35 | 21.80 | 2.01 |
| 3.833 | 1.34 | 9.833  | 4.02   | 15.833 | 3.35 | 21.83 | 1.34 |
| 3.867 | 1.34 | 9.867  | 4.02   | 15.867 | 3.35 | 21.87 | 1.34 |
| 3.900 | 1.34 | 9.900  | 4.02   | 15.900 | 3.35 | 21.90 | 1.34 |
| 3.933 | 1.34 | 9.933  | 4.02   | 15.933 | 3.35 | 21.93 | 1.34 |
| 3.967 | 1.34 | 9.967  | 4.02   | 15.967 | 3.35 | 21.97 | 1.34 |
| 4.000 | 1.34 | 10.000 | 4.02   | 16.000 | 3.35 | 22.00 | 1.34 |
| 4.033 | 2.68 | 10.033 | 7.37   | 16.033 | 3.35 | 22.03 | 1.34 |
| 4.067 | 2.68 | 10.067 | 7.37   | 16.067 | 3.35 | 22.07 | 1.34 |
| 4.100 | 2.68 | 10.100 | 7.37   | 16.100 | 3.35 | 22.10 | 1.34 |
| 4.133 | 2.68 | 10.133 | 7.37   | 16.133 | 3.35 | 22.13 | 1.34 |
| 4.167 | 2.68 | 10.167 | 7.37   | 16.167 | 3.35 | 22.17 | 1.34 |
| 4.200 | 2.68 | 10.200 | 7.37   | 16.200 | 3.35 | 22.20 | 1.34 |
| 4.233 | 2.68 | 10.233 | 7.37   | 16.233 | 3.35 | 22.23 | 2.01 |
| 4.267 | 2.68 | 10.267 | 7.37   | 16.267 | 3.35 | 22.27 | 2.01 |
| 4.300 | 2.68 | 10.300 | 7.37   | 16.300 | 3.35 | 22.30 | 2.01 |
| 4.333 | 2.68 | 10.333 | 7.37   | 16.333 | 3.35 | 22.33 | 2.01 |
| 4.367 | 2.68 | 10.367 | 7.37   | 16.367 | 3.35 | 22.37 | 2.01 |
| 4.400 | 2.68 | 10.400 | 7.37   | 16.400 | 3.35 | 22.40 | 2.01 |
| 4.433 | 2.68 | 10.433 | 7.37   | 16.433 | 3.35 | 22.43 | 1.34 |
| 4.467 | 2.68 | 10.467 | 7.37   | 16.467 | 3.35 | 22.47 | 1.34 |
| 4.500 | 2.68 | 10.500 | 7.37   | 16.500 | 3.35 | 22.50 | 1.34 |
| 4.533 | 2.68 | 10.533 | 7.37   | 16.533 | 3.35 | 22.53 | 1.34 |
| 4.567 | 2.68 | 10.567 | 7.37   | 16.567 | 3.35 | 22.57 | 1.34 |
| 4.600 | 2.68 | 10.600 | 7.37   | 16.600 | 3.35 | 22.60 | 1.34 |
| 4.633 | 2.68 | 10.633 | 7.37   | 16.633 | 3.35 | 22.63 | 2.01 |
| 4.667 | 2.68 | 10.667 | 7.37   | 16.667 | 3.35 | 22.67 | 2.01 |
| 4.700 | 2.68 | 10.700 | 7.37   | 16.700 | 3.35 | 22.70 | 2.01 |
| 4.733 | 2.68 | 10.733 | 7.37   | 16.733 | 3.35 | 22.73 | 2.01 |
| 4.767 | 2.68 | 10.767 | 7.37   | 16.767 | 3.35 | 22.77 | 2.01 |
| 4.800 | 2.68 | 10.800 | 7.37   | 16.800 | 3.35 | 22.80 | 2.01 |
| 4.833 | 2.68 | 10.833 | 7.37   | 16.833 | 2.01 | 22.83 | 1.34 |
| 4.867 | 2.68 | 10.867 | 7.37   | 16.867 | 2.01 | 22.87 | 1.34 |
| 4.900 | 2.68 | 10.900 | 7.37   | 16.900 | 2.01 | 22.90 | 1.34 |
| 4.933 | 2.68 | 10.933 | 7.37   | 16.933 | 2.01 | 22.93 | 1.34 |
| 4.967 | 2.68 | 10.967 | 7.37   | 16.967 | 2.01 | 22.97 | 1.34 |
| 5.000 | 2.68 | 11.000 | 7.37   | 17.000 | 2.01 | 23.00 | 1.34 |
| 5.033 | 2.68 | 11.033 | 10.05  | 17.033 | 2.01 | 23.03 | 1.34 |
| 5.067 | 2.68 | 11.067 | 10.05  | 17.067 | 2.01 | 23.07 | 1.34 |
| 5.100 | 2.68 | 11.100 | 10.05  | 17.100 | 2.01 | 23.10 | 1.34 |
| 5.133 | 2.68 | 11.133 | 10.05  | 17.133 | 2.01 | 23.13 | 1.34 |
| 5.167 | 2.68 | 11.167 | 10.05  | 17.167 | 2.01 | 23.17 | 1.34 |
| 5.200 | 2.68 | 11.200 | 10.06  | 17.200 | 2.01 | 23.20 | 1.34 |
| 5.233 | 2.68 | 11.233 | 14.74  | 17.233 | 2.68 | 23.23 | 1.34 |
| 5.267 | 2.68 | 11.267 | 14.74  | 17.267 | 2.68 | 23.27 | 1.34 |
| 5.300 | 2.68 | 11.300 | 14.74  | 17.300 | 2.68 | 23.30 | 1.34 |
| 5.333 | 2.68 | 11.333 | 14.74  | 17.333 | 2.68 | 23.33 | 1.34 |
| 5.367 | 2.68 | 11.367 | 14.74  | 17.367 | 2.68 | 23.37 | 1.34 |
| 5.400 | 2.68 | 11.400 | 14.76  | 17.400 | 2.68 | 23.40 | 1.34 |
| 5.433 | 2.68 | 11.433 | 35.51  | 17.433 | 2.01 | 23.43 | 2.01 |
| 5.467 | 2.68 | 11.467 | 35.51  | 17.467 | 2.01 | 23.47 | 2.01 |
| 5.500 | 2.68 | 11.500 | 35.51  | 17.500 | 2.01 | 23.50 | 2.01 |
| 5.533 | 2.68 | 11.533 | 35.51  | 17.533 | 2.01 | 23.53 | 2.01 |
| 5.567 | 2.68 | 11.567 | 35.51  | 17.567 | 2.01 | 23.57 | 2.01 |
| 5.600 | 2.68 | 11.600 | 35.56  | 17.600 | 2.01 | 23.60 | 2.01 |
| 5.633 | 2.68 | 11.633 | 73.70  | 17.633 | 2.68 | 23.63 | 1.34 |
| 5.667 | 2.68 | 11.667 | 73.70  | 17.667 | 2.68 | 23.67 | 1.34 |
| 5.700 | 2.68 | 11.700 | 73.70  | 17.700 | 2.68 | 23.70 | 1.34 |
| 5.733 | 2.68 | 11.733 | 73.70  | 17.733 | 2.68 | 23.73 | 1.34 |
| 5.767 | 2.68 | 11.767 | 73.70  | 17.767 | 2.68 | 23.77 | 1.34 |
| 5.800 | 2.68 | 11.800 | 73.80  | 17.800 | 2.68 | 23.80 | 1.34 |
| 5.833 | 2.68 | 11.833 | 150.75 | 17.833 | 2.01 | 23.83 | 1.34 |
| 5.867 | 2.68 | 11.867 | 150.75 | 17.867 | 2.01 | 23.87 | 1.34 |
| 5.900 | 2.68 | 11.900 | 150.75 | 17.900 | 2.01 | 23.90 | 1.34 |
| 5.933 | 2.68 | 11.933 | 150.75 | 17.933 | 2.01 | 23.93 | 1.34 |
| 5.967 | 2.68 | 11.967 | 150.75 | 17.967 | 2.01 | 23.97 | 1.34 |
| 6.000 | 2.68 | 12.000 | 150.58 | 18.000 | 2.01 | 24.00 | 1.34 |

PEAK FLOW (cms)= 1.424 (i)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 86.524  
TOTAL RAINFALL (mm)= 133.999  
RUNOFF COEFFICIENT = 0.646

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-----  
| CALIB |  
| NASHYD ( 0402) | Area (ha)= 7.58 Curve Number (CN)= 81.0  
| ID= 1 DT= 2.0 min | Ia (mm)= 6.90 # of Linear Res.(N)= 3.00  
-----  
U.H. Tp(hrs)= 0.16

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                              | 1.34  | 6.033 | 2.68  | 12.033 | 26.80 | 18.03 | 2.01  |
| 0.067                              | 1.34  | 6.067 | 2.68  | 12.067 | 26.80 | 18.07 | 2.01  |
| 0.100                              | 1.34  | 6.100 | 2.68  | 12.100 | 26.80 | 18.10 | 2.01  |
| 0.133                              | 1.34  | 6.133 | 2.68  | 12.133 | 26.80 | 18.13 | 2.01  |
| 0.167                              | 1.34  | 6.167 | 2.68  | 12.167 | 26.80 | 18.17 | 2.01  |
| 0.200                              | 1.34  | 6.200 | 2.68  | 12.200 | 26.79 | 18.20 | 2.01  |
| 0.233                              | 1.34  | 6.233 | 2.68  | 12.233 | 16.75 | 18.23 | 2.01  |
| 0.267                              | 1.34  | 6.267 | 2.68  | 12.267 | 16.75 | 18.27 | 2.01  |
| 0.300                              | 1.34  | 6.300 | 2.68  | 12.300 | 16.75 | 18.30 | 2.01  |
| 0.333                              | 1.34  | 6.333 | 2.68  | 12.333 | 16.75 | 18.33 | 2.01  |
| 0.367                              | 1.34  | 6.367 | 2.68  | 12.367 | 16.75 | 18.37 | 2.01  |
| 0.400                              | 1.34  | 6.400 | 2.68  | 12.400 | 16.74 | 18.40 | 2.01  |
| 0.433                              | 1.34  | 6.433 | 2.68  | 12.433 | 12.06 | 18.43 | 2.68  |
| 0.467                              | 1.34  | 6.467 | 2.68  | 12.467 | 12.06 | 18.47 | 2.68  |
| 0.500                              | 1.34  | 6.500 | 2.68  | 12.500 | 12.06 | 18.50 | 2.68  |
| 0.533                              | 1.34  | 6.533 | 2.68  | 12.533 | 12.06 | 18.53 | 2.68  |
| 0.567                              | 1.34  | 6.567 | 2.68  | 12.567 | 12.06 | 18.57 | 2.68  |
| 0.600                              | 1.34  | 6.600 | 2.68  | 12.600 | 12.06 | 18.60 | 2.68  |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 3.567 | 1.34 | 9.567  | 4.02   | 15.567 | 3.35 | 21.57 | 1.34 |
| 3.600 | 1.34 | 9.600  | 4.02   | 15.600 | 3.35 | 21.60 | 1.34 |
| 3.633 | 1.34 | 9.633  | 4.02   | 15.633 | 3.35 | 21.63 | 2.01 |
| 3.667 | 1.34 | 9.667  | 4.02   | 15.667 | 3.35 | 21.67 | 2.01 |
| 3.700 | 1.34 | 9.700  | 4.02   | 15.700 | 3.35 | 21.70 | 2.01 |
| 3.733 | 1.34 | 9.733  | 4.02   | 15.733 | 3.35 | 21.73 | 2.01 |
| 3.767 | 1.34 | 9.767  | 4.02   | 15.767 | 3.35 | 21.77 | 2.01 |
| 3.800 | 1.34 | 9.800  | 4.02   | 15.800 | 3.35 | 21.80 | 2.01 |
| 3.833 | 1.34 | 9.833  | 4.02   | 15.833 | 3.35 | 21.83 | 1.34 |
| 3.867 | 1.34 | 9.867  | 4.02   | 15.867 | 3.35 | 21.87 | 1.34 |
| 3.900 | 1.34 | 9.900  | 4.02   | 15.900 | 3.35 | 21.90 | 1.34 |
| 3.933 | 1.34 | 9.933  | 4.02   | 15.933 | 3.35 | 21.93 | 1.34 |
| 3.967 | 1.34 | 9.967  | 4.02   | 15.967 | 3.35 | 21.97 | 1.34 |
| 4.000 | 1.34 | 10.000 | 4.02   | 16.000 | 3.35 | 22.00 | 1.34 |
| 4.033 | 2.68 | 10.033 | 7.37   | 16.033 | 3.35 | 22.03 | 1.34 |
| 4.067 | 2.68 | 10.067 | 7.37   | 16.067 | 3.35 | 22.07 | 1.34 |
| 4.100 | 2.68 | 10.100 | 7.37   | 16.100 | 3.35 | 22.10 | 1.34 |
| 4.133 | 2.68 | 10.133 | 7.37   | 16.133 | 3.35 | 22.13 | 1.34 |
| 4.167 | 2.68 | 10.167 | 7.37   | 16.167 | 3.35 | 22.17 | 1.34 |
| 4.200 | 2.68 | 10.200 | 7.37   | 16.200 | 3.35 | 22.20 | 1.34 |
| 4.233 | 2.68 | 10.233 | 7.37   | 16.233 | 3.35 | 22.23 | 2.01 |
| 4.267 | 2.68 | 10.267 | 7.37   | 16.267 | 3.35 | 22.27 | 2.01 |
| 4.300 | 2.68 | 10.300 | 7.37   | 16.300 | 3.35 | 22.30 | 2.01 |
| 4.333 | 2.68 | 10.333 | 7.37   | 16.333 | 3.35 | 22.33 | 2.01 |
| 4.367 | 2.68 | 10.367 | 7.37   | 16.367 | 3.35 | 22.37 | 2.01 |
| 4.400 | 2.68 | 10.400 | 7.37   | 16.400 | 3.35 | 22.40 | 2.01 |
| 4.433 | 2.68 | 10.433 | 7.37   | 16.433 | 3.35 | 22.43 | 1.34 |
| 4.467 | 2.68 | 10.467 | 7.37   | 16.467 | 3.35 | 22.47 | 1.34 |
| 4.500 | 2.68 | 10.500 | 7.37   | 16.500 | 3.35 | 22.50 | 1.34 |
| 4.533 | 2.68 | 10.533 | 7.37   | 16.533 | 3.35 | 22.53 | 1.34 |
| 4.567 | 2.68 | 10.567 | 7.37   | 16.567 | 3.35 | 22.57 | 1.34 |
| 4.600 | 2.68 | 10.600 | 7.37   | 16.600 | 3.35 | 22.60 | 1.34 |
| 4.633 | 2.68 | 10.633 | 7.37   | 16.633 | 3.35 | 22.63 | 2.01 |
| 4.667 | 2.68 | 10.667 | 7.37   | 16.667 | 3.35 | 22.67 | 2.01 |
| 4.700 | 2.68 | 10.700 | 7.37   | 16.700 | 3.35 | 22.70 | 2.01 |
| 4.733 | 2.68 | 10.733 | 7.37   | 16.733 | 3.35 | 22.73 | 2.01 |
| 4.767 | 2.68 | 10.767 | 7.37   | 16.767 | 3.35 | 22.77 | 2.01 |
| 4.800 | 2.68 | 10.800 | 7.37   | 16.800 | 3.35 | 22.80 | 2.01 |
| 4.833 | 2.68 | 10.833 | 7.37   | 16.833 | 2.01 | 22.83 | 1.34 |
| 4.867 | 2.68 | 10.867 | 7.37   | 16.867 | 2.01 | 22.87 | 1.34 |
| 4.900 | 2.68 | 10.900 | 7.37   | 16.900 | 2.01 | 22.90 | 1.34 |
| 4.933 | 2.68 | 10.933 | 7.37   | 16.933 | 2.01 | 22.93 | 1.34 |
| 4.967 | 2.68 | 10.967 | 7.37   | 16.967 | 2.01 | 22.97 | 1.34 |
| 5.000 | 2.68 | 11.000 | 7.37   | 17.000 | 2.01 | 23.00 | 1.34 |
| 5.033 | 2.68 | 11.033 | 10.05  | 17.033 | 2.01 | 23.03 | 1.34 |
| 5.067 | 2.68 | 11.067 | 10.05  | 17.067 | 2.01 | 23.07 | 1.34 |
| 5.100 | 2.68 | 11.100 | 10.05  | 17.100 | 2.01 | 23.10 | 1.34 |
| 5.133 | 2.68 | 11.133 | 10.05  | 17.133 | 2.01 | 23.13 | 1.34 |
| 5.167 | 2.68 | 11.167 | 10.05  | 17.167 | 2.01 | 23.17 | 1.34 |
| 5.200 | 2.68 | 11.200 | 10.06  | 17.200 | 2.01 | 23.20 | 1.34 |
| 5.233 | 2.68 | 11.233 | 14.74  | 17.233 | 2.68 | 23.23 | 1.34 |
| 5.267 | 2.68 | 11.267 | 14.74  | 17.267 | 2.68 | 23.27 | 1.34 |
| 5.300 | 2.68 | 11.300 | 14.74  | 17.300 | 2.68 | 23.30 | 1.34 |
| 5.333 | 2.68 | 11.333 | 14.74  | 17.333 | 2.68 | 23.33 | 1.34 |
| 5.367 | 2.68 | 11.367 | 14.74  | 17.367 | 2.68 | 23.37 | 1.34 |
| 5.400 | 2.68 | 11.400 | 14.76  | 17.400 | 2.68 | 23.40 | 1.34 |
| 5.433 | 2.68 | 11.433 | 35.51  | 17.433 | 2.01 | 23.43 | 2.01 |
| 5.467 | 2.68 | 11.467 | 35.51  | 17.467 | 2.01 | 23.47 | 2.01 |
| 5.500 | 2.68 | 11.500 | 35.51  | 17.500 | 2.01 | 23.50 | 2.01 |
| 5.533 | 2.68 | 11.533 | 35.51  | 17.533 | 2.01 | 23.53 | 2.01 |
| 5.567 | 2.68 | 11.567 | 35.51  | 17.567 | 2.01 | 23.57 | 2.01 |
| 5.600 | 2.68 | 11.600 | 35.56  | 17.600 | 2.01 | 23.60 | 2.01 |
| 5.633 | 2.68 | 11.633 | 73.70  | 17.633 | 2.68 | 23.63 | 1.34 |
| 5.667 | 2.68 | 11.667 | 73.70  | 17.667 | 2.68 | 23.67 | 1.34 |
| 5.700 | 2.68 | 11.700 | 73.70  | 17.700 | 2.68 | 23.70 | 1.34 |
| 5.733 | 2.68 | 11.733 | 73.70  | 17.733 | 2.68 | 23.73 | 1.34 |
| 5.767 | 2.68 | 11.767 | 73.70  | 17.767 | 2.68 | 23.77 | 1.34 |
| 5.800 | 2.68 | 11.800 | 73.80  | 17.800 | 2.68 | 23.80 | 1.34 |
| 5.833 | 2.68 | 11.833 | 150.75 | 17.833 | 2.01 | 23.83 | 1.34 |
| 5.867 | 2.68 | 11.867 | 150.75 | 17.867 | 2.01 | 23.87 | 1.34 |
| 5.900 | 2.68 | 11.900 | 150.75 | 17.900 | 2.01 | 23.90 | 1.34 |
| 5.933 | 2.68 | 11.933 | 150.75 | 17.933 | 2.01 | 23.93 | 1.34 |
| 5.967 | 2.68 | 11.967 | 150.75 | 17.967 | 2.01 | 23.97 | 1.34 |
| 6.000 | 2.68 | 12.000 | 150.58 | 18.000 | 2.01 | 24.00 | 1.34 |

Unit Hyd Qpeak (cms)= 1.809

PEAK FLOW (cms)= 1.808 (i)  
TIME TO PEAK (hrs)= 12.06  
RUNOFF VOLUME (mm)= 86.524  
TOTAL RAINFALL (mm)= 133.999  
RUNOFF COEFFICIENT = 0.646

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0040)  
1 + 2 = 3

|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
|-------------------|--------------|----------------|----------------|--------------|
| ID1= 1 ( 0401):   | 5.97         | 1.424          | 12.07          | 86.52        |
| + ID2= 2 ( 0402): | 7.58         | 1.808          | 12.07          | 86.52        |
| =====             |              |                |                |              |
| ID = 3 ( 0040):   | 13.55        | 3.231          | 12.07          | 86.52        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |               |      |                           |
|-------------------|---------------|------|---------------------------|
| CALIB             |               |      |                           |
| NASHYD ( 0403)    | Area (ha)=    | 2.87 | Curve Number (CN)= 81.0   |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 6.80 | # of Linear Res.(N)= 3.00 |
|                   | U.H. Tp(hrs)= | 0.15 |                           |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ---- TRANSFORMED HYETOGRAPH ---- |               |             |               |             |               |             |               |
|----------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                      | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                            | 1.34          | 6.033       | 2.68          | 12.033      | 26.80         | 18.03       | 2.01          |
| 0.067                            | 1.34          | 6.067       | 2.68          | 12.067      | 26.80         | 18.07       | 2.01          |
| 0.100                            | 1.34          | 6.100       | 2.68          | 12.100      | 26.80         | 18.10       | 2.01          |
| 0.133                            | 1.34          | 6.133       | 2.68          | 12.133      | 26.80         | 18.13       | 2.01          |
| 0.167                            | 1.34          | 6.167       | 2.68          | 12.167      | 26.80         | 18.17       | 2.01          |
| 0.200                            | 1.34          | 6.200       | 2.68          | 12.200      | 26.79         | 18.20       | 2.01          |
| 0.233                            | 1.34          | 6.233       | 2.68          | 12.233      | 16.75         | 18.23       | 2.01          |
| 0.267                            | 1.34          | 6.267       | 2.68          | 12.267      | 16.75         | 18.27       | 2.01          |
| 0.300                            | 1.34          | 6.300       | 2.68          | 12.300      | 16.75         | 18.30       | 2.01          |
| 0.333                            | 1.34          | 6.333       | 2.68          | 12.333      | 16.75         | 18.33       | 2.01          |
| 0.367                            | 1.34          | 6.367       | 2.68          | 12.367      | 16.75         | 18.37       | 2.01          |
| 0.400                            | 1.34          | 6.400       | 2.68          | 12.400      | 16.74         | 18.40       | 2.01          |
| 0.433                            | 1.34          | 6.433       | 2.68          | 12.433      | 12.06         | 18.43       | 2.68          |
| 0.467                            | 1.34          | 6.467       | 2.68          | 12.467      | 12.06         | 18.47       | 2.68          |
| 0.500                            | 1.34          | 6.500       | 2.68          | 12.500      | 12.06         | 18.50       | 2.68          |
| 0.533                            | 1.34          | 6.533       | 2.68          | 12.533      | 12.06         | 18.53       | 2.68          |
| 0.567                            | 1.34          | 6.567       | 2.68          | 12.567      | 12.06         | 18.57       | 2.68          |

|       |      |       |      |        |       |       |      |
|-------|------|-------|------|--------|-------|-------|------|
| 0.600 | 1.34 | 6.600 | 2.68 | 12.600 | 12.06 | 18.60 | 2.68 |
| 0.633 | 1.34 | 6.633 | 2.68 | 12.633 | 11.39 | 18.63 | 2.01 |
| 0.667 | 1.34 | 6.667 | 2.68 | 12.667 | 11.39 | 18.67 | 2.01 |
| 0.700 | 1.34 | 6.700 | 2.68 | 12.700 | 11.39 | 18.70 | 2.01 |
| 0.733 | 1.34 | 6.733 | 2.68 | 12.733 | 11.39 | 18.73 | 2.01 |
| 0.767 | 1.34 | 6.767 | 2.68 | 12.767 | 11.39 | 18.77 | 2.01 |
| 0.800 | 1.34 | 6.800 | 2.68 | 12.800 | 11.38 | 18.80 | 2.01 |
| 0.833 | 1.34 | 6.833 | 2.68 | 12.833 | 8.04  | 18.84 | 2.01 |
| 0.867 | 1.34 | 6.867 | 2.68 | 12.867 | 8.04  | 18.87 | 2.01 |
| 0.900 | 1.34 | 6.900 | 2.68 | 12.900 | 8.04  | 18.90 | 2.01 |
| 0.933 | 1.34 | 6.933 | 2.68 | 12.933 | 8.04  | 18.93 | 2.01 |
| 0.967 | 1.34 | 6.967 | 2.68 | 12.967 | 8.04  | 18.97 | 2.01 |
| 1.000 | 1.34 | 7.000 | 2.68 | 13.000 | 8.04  | 19.00 | 2.01 |
| 1.033 | 1.34 | 7.033 | 2.68 | 13.033 | 6.70  | 19.03 | 2.68 |
| 1.067 | 1.34 | 7.067 | 2.68 | 13.067 | 6.70  | 19.07 | 2.68 |
| 1.100 | 1.34 | 7.100 | 2.68 | 13.100 | 6.70  | 19.10 | 2.68 |
| 1.133 | 1.34 | 7.133 | 2.68 | 13.133 | 6.70  | 19.13 | 2.68 |
| 1.167 | 1.34 | 7.167 | 2.68 | 13.167 | 6.70  | 19.17 | 2.68 |
| 1.200 | 1.34 | 7.200 | 2.68 | 13.200 | 6.70  | 19.20 | 2.68 |
| 1.233 | 1.34 | 7.233 | 2.68 | 13.233 | 6.70  | 19.23 | 2.01 |
| 1.267 | 1.34 | 7.267 | 2.68 | 13.267 | 6.70  | 19.27 | 2.01 |
| 1.300 | 1.34 | 7.300 | 2.68 | 13.300 | 6.70  | 19.30 | 2.01 |
| 1.333 | 1.34 | 7.333 | 2.68 | 13.333 | 6.70  | 19.33 | 2.01 |
| 1.367 | 1.34 | 7.367 | 2.68 | 13.367 | 6.70  | 19.37 | 2.01 |
| 1.400 | 1.34 | 7.400 | 2.68 | 13.400 | 6.70  | 19.40 | 2.01 |
| 1.433 | 1.34 | 7.433 | 2.68 | 13.433 | 6.70  | 19.43 | 2.01 |
| 1.467 | 1.34 | 7.467 | 2.68 | 13.467 | 6.70  | 19.47 | 2.68 |
| 1.500 | 1.34 | 7.500 | 2.68 | 13.500 | 6.70  | 19.50 | 2.68 |
| 1.533 | 1.34 | 7.533 | 2.68 | 13.533 | 6.70  | 19.53 | 2.68 |
| 1.567 | 1.34 | 7.567 | 2.68 | 13.567 | 6.70  | 19.57 | 2.68 |
| 1.600 | 1.34 | 7.600 | 2.68 | 13.600 | 6.70  | 19.60 | 2.68 |
| 1.633 | 1.34 | 7.633 | 2.68 | 13.633 | 6.70  | 19.63 | 2.01 |
| 1.667 | 1.34 | 7.667 | 2.68 | 13.667 | 6.70  | 19.67 | 2.01 |
| 1.700 | 1.34 | 7.700 | 2.68 | 13.700 | 6.70  | 19.70 | 2.01 |
| 1.733 | 1.34 | 7.733 | 2.68 | 13.733 | 6.70  | 19.73 | 2.01 |
| 1.767 | 1.34 | 7.767 | 2.68 | 13.767 | 6.70  | 19.77 | 2.01 |
| 1.800 | 1.34 | 7.800 | 2.68 | 13.800 | 6.70  | 19.80 | 2.01 |
| 1.833 | 1.34 | 7.833 | 2.68 | 13.833 | 6.70  | 19.83 | 2.68 |
| 1.867 | 1.34 | 7.867 | 2.68 | 13.867 | 6.70  | 19.87 | 2.68 |
| 1.900 | 1.34 | 7.900 | 2.68 | 13.900 | 6.70  | 19.90 | 2.68 |
| 1.933 | 1.34 | 7.933 | 2.68 | 13.933 | 6.70  | 19.93 | 2.68 |
| 1.967 | 1.34 | 7.967 | 2.68 | 13.967 | 6.70  | 19.97 | 2.68 |
| 2.000 | 1.34 | 8.000 | 2.68 | 14.000 | 6.69  | 20.00 | 2.68 |
| 2.033 | 1.34 | 8.033 | 4.02 | 14.033 | 4.02  | 20.03 | 2.01 |
| 2.067 | 1.34 | 8.067 | 4.02 | 14.067 | 4.02  | 20.07 | 2.01 |
| 2.100 | 1.34 | 8.100 | 4.02 | 14.100 | 4.02  | 20.10 | 2.01 |
| 2.133 | 1.34 | 8.133 | 4.02 | 14.133 | 4.02  | 20.13 | 2.01 |
| 2.167 | 1.   |       |      |        |       |       |      |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 4.833 | 2.68 | 10.833 | 7.37   | 16.833 | 2.01 | 22.83 | 1.34 |
| 4.867 | 2.68 | 10.867 | 7.37   | 16.867 | 2.01 | 22.87 | 1.34 |
| 4.900 | 2.68 | 10.900 | 7.37   | 16.900 | 2.01 | 22.90 | 1.34 |
| 4.933 | 2.68 | 10.933 | 7.37   | 16.933 | 2.01 | 22.93 | 1.34 |
| 4.967 | 2.68 | 10.967 | 7.37   | 16.967 | 2.01 | 22.97 | 1.34 |
| 5.000 | 2.68 | 11.000 | 7.37   | 17.000 | 2.01 | 23.00 | 1.34 |
| 5.033 | 2.68 | 11.033 | 10.05  | 17.033 | 2.01 | 23.03 | 1.34 |
| 5.067 | 2.68 | 11.067 | 10.05  | 17.067 | 2.01 | 23.07 | 1.34 |
| 5.100 | 2.68 | 11.100 | 10.05  | 17.100 | 2.01 | 23.10 | 1.34 |
| 5.133 | 2.68 | 11.133 | 10.05  | 17.133 | 2.01 | 23.13 | 1.34 |
| 5.167 | 2.68 | 11.167 | 10.05  | 17.167 | 2.01 | 23.17 | 1.34 |
| 5.200 | 2.68 | 11.200 | 10.06  | 17.200 | 2.01 | 23.20 | 1.34 |
| 5.233 | 2.68 | 11.233 | 14.74  | 17.233 | 2.68 | 23.23 | 1.34 |
| 5.267 | 2.68 | 11.267 | 14.74  | 17.267 | 2.68 | 23.27 | 1.34 |
| 5.300 | 2.68 | 11.300 | 14.74  | 17.300 | 2.68 | 23.30 | 1.34 |
| 5.333 | 2.68 | 11.333 | 14.74  | 17.333 | 2.68 | 23.33 | 1.34 |
| 5.367 | 2.68 | 11.367 | 14.74  | 17.367 | 2.68 | 23.37 | 1.34 |
| 5.400 | 2.68 | 11.400 | 14.76  | 17.400 | 2.68 | 23.40 | 1.34 |
| 5.433 | 2.68 | 11.433 | 35.51  | 17.433 | 2.01 | 23.43 | 2.01 |
| 5.467 | 2.68 | 11.467 | 35.51  | 17.467 | 2.01 | 23.47 | 2.01 |
| 5.500 | 2.68 | 11.500 | 35.51  | 17.500 | 2.01 | 23.50 | 2.01 |
| 5.533 | 2.68 | 11.533 | 35.51  | 17.533 | 2.01 | 23.53 | 2.01 |
| 5.567 | 2.68 | 11.567 | 35.51  | 17.567 | 2.01 | 23.57 | 2.01 |
| 5.600 | 2.68 | 11.600 | 35.56  | 17.600 | 2.01 | 23.60 | 2.01 |
| 5.633 | 2.68 | 11.633 | 73.70  | 17.633 | 2.68 | 23.63 | 1.34 |
| 5.667 | 2.68 | 11.667 | 73.70  | 17.667 | 2.68 | 23.67 | 1.34 |
| 5.700 | 2.68 | 11.700 | 73.70  | 17.700 | 2.68 | 23.70 | 1.34 |
| 5.733 | 2.68 | 11.733 | 73.70  | 17.733 | 2.68 | 23.73 | 1.34 |
| 5.767 | 2.68 | 11.767 | 73.70  | 17.767 | 2.68 | 23.77 | 1.34 |
| 5.800 | 2.68 | 11.800 | 73.80  | 17.800 | 2.68 | 23.80 | 1.34 |
| 5.833 | 2.68 | 11.833 | 150.75 | 17.833 | 2.01 | 23.83 | 1.34 |
| 5.867 | 2.68 | 11.867 | 150.75 | 17.867 | 2.01 | 23.87 | 1.34 |
| 5.900 | 2.68 | 11.900 | 150.75 | 17.900 | 2.01 | 23.90 | 1.34 |
| 5.933 | 2.68 | 11.933 | 150.75 | 17.933 | 2.01 | 23.93 | 1.34 |
| 5.967 | 2.68 | 11.967 | 150.75 | 17.967 | 2.01 | 23.97 | 1.34 |
| 6.000 | 2.68 | 12.000 | 150.58 | 18.000 | 2.01 | 24.00 | 1.34 |

Unit Hyd Qpeak (cms)= 0.731

PEAK FLOW (cms)= 0.705 (i)  
TIME TO PEAK (hrs)= 12.033  
RUNOFF VOLUME (mm)= 86.611  
TOTAL RAINFALL (mm)= 133.999  
RUNOFF COEFFICIENT = 0.646

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |               |      |                      |      |  |
|-------------------|---------------|------|----------------------|------|--|
| CALIB             |               |      |                      |      |  |
| NASHYD ( 0404)    | Area (ha)=    | 0.85 | Curve Number (CN)=   | 86.0 |  |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 4.80 | # of Linear Res.(N)= | 3.00 |  |
|                   | U.H. Tp(hrs)= | 0.20 |                      |      |  |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |       |       |       |        |       |       |       |
|--------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                           | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                            | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.933                          | 1.34  | 6.933 | 2.68  | 12.933 | 26.80 | 18.03 | 2.01  |
| 0.967                          | 1.34  | 6.967 | 2.68  | 12.967 | 26.80 | 18.07 | 2.01  |
| 0.100                          | 1.34  | 6.100 | 2.68  | 12.100 | 26.80 | 18.10 | 2.01  |
| 0.133                          | 1.34  | 6.133 | 2.68  | 12.133 | 26.80 | 18.13 | 2.01  |
| 0.167                          | 1.34  | 6.167 | 2.68  | 12.167 | 26.80 | 18.17 | 2.01  |
| 0.200                          | 1.34  | 6.200 | 2.68  | 12.200 | 26.79 | 18.20 | 2.01  |
| 0.233                          | 1.34  | 6.233 | 2.68  | 12.233 | 16.75 | 18.23 | 2.01  |
| 0.267                          | 1.34  | 6.267 | 2.68  | 12.267 | 16.75 | 18.27 | 2.01  |
| 0.300                          | 1.34  | 6.300 | 2.68  | 12.300 | 16.75 | 18.30 | 2.01  |
| 0.333                          | 1.34  | 6.333 | 2.68  | 12.333 | 16.75 | 18.33 | 2.01  |
| 0.367                          | 1.34  | 6.367 | 2.68  | 12.367 | 16.75 | 18.37 | 2.01  |
| 0.400                          | 1.34  | 6.400 | 2.68  | 12.400 | 16.74 | 18.40 | 2.01  |
| 0.433                          | 1.34  | 6.433 | 2.68  | 12.433 | 12.06 | 18.43 | 2.68  |
| 0.467                          | 1.34  | 6.467 | 2.68  | 12.467 | 12.06 | 18.47 | 2.68  |
| 0.500                          | 1.34  | 6.500 | 2.68  | 12.500 | 12.06 | 18.50 | 2.68  |
| 0.533                          | 1.34  | 6.533 | 2.68  | 12.533 | 12.06 | 18.53 | 2.68  |
| 0.567                          | 1.34  | 6.567 | 2.68  | 12.567 | 12.06 | 18.57 | 2.68  |
| 0.600                          | 1.34  | 6.600 | 2.68  | 12.600 | 12.06 | 18.60 | 2.68  |
| 0.633                          | 1.34  | 6.633 | 2.68  | 12.633 | 11.39 | 18.63 | 2.01  |
| 0.667                          | 1.34  | 6.667 | 2.68  | 12.667 | 11.39 | 18.67 | 2.01  |
| 0.700                          | 1.34  | 6.700 | 2.68  | 12.700 | 11.39 | 18.70 | 2.01  |
| 0.733                          | 1.34  | 6.733 | 2.68  | 12.733 | 11.39 | 18.73 | 2.01  |
| 0.767                          | 1.34  | 6.767 | 2.68  | 12.767 | 11.39 | 18.77 | 2.01  |
| 0.800                          | 1.34  | 6.800 | 2.68  | 12.800 | 11.38 | 18.80 | 2.01  |
| 0.833                          | 1.34  | 6.833 | 2.68  | 12.833 | 8.04  | 18.83 | 2.01  |
| 0.867                          | 1.34  | 6.867 | 2.68  | 12.867 | 8.04  | 18.87 | 2.01  |
| 0.900                          | 1.34  | 6.900 | 2.68  | 12.900 | 8.04  | 18.90 | 2.01  |
| 0.933                          | 1.34  | 6.933 | 2.68  | 12.933 | 8.04  | 18.93 | 2.01  |
| 0.967                          | 1.34  | 6.967 | 2.68  | 12.967 | 8.04  | 18.97 | 2.01  |
| 1.000                          | 1.34  | 7.000 | 2.68  | 13.000 | 8.04  | 19.00 | 2.01  |
| 1.033                          | 1.34  | 7.033 | 2.68  | 13.033 | 6.70  | 19.03 | 2.68  |
| 1.067                          | 1.34  | 7.067 | 2.68  | 13.067 | 6.70  | 19.07 | 2.68  |
| 1.100                          | 1.34  | 7.100 | 2.68  | 13.100 | 6.70  | 19.10 | 2.68  |
| 1.133                          | 1.34  | 7.133 | 2.68  | 13.133 | 6.70  | 19.13 | 2.68  |
| 1.167                          | 1.34  | 7.167 | 2.68  | 13.167 | 6.70  | 19.17 | 2.68  |
| 1.200                          | 1.34  | 7.200 | 2.68  | 13.200 | 6.70  | 19.20 | 2.68  |
| 1.233                          | 1.34  | 7.233 | 2.68  | 13.233 | 6.70  | 19.23 | 2.01  |
| 1.267                          | 1.34  | 7.267 | 2.68  | 13.267 | 6.70  | 19.27 | 2.01  |
| 1.300                          | 1.34  | 7.300 | 2.68  | 13.300 | 6.70  | 19.30 | 2.01  |
| 1.333                          | 1.34  | 7.333 | 2.68  | 13.333 | 6.70  | 19.33 | 2.01  |
| 1.367                          | 1.34  | 7.367 | 2.68  | 13.367 | 6.70  | 19.37 | 2.01  |
| 1.400                          | 1.34  | 7.400 | 2.68  | 13.400 | 6.70  | 19.40 | 2.01  |
| 1.433                          | 1.34  | 7.433 | 2.68  | 13.433 | 6.70  | 19.43 | 2.68  |
| 1.467                          | 1.34  | 7.467 | 2.68  | 13.467 | 6.70  | 19.47 | 2.68  |
| 1.500                          | 1.34  | 7.500 | 2.68  | 13.500 | 6.70  | 19.50 | 2.68  |
| 1.533                          | 1.34  | 7.533 | 2.68  | 13.533 | 6.70  | 19.53 | 2.68  |
| 1.567                          | 1.34  | 7.567 | 2.68  | 13.567 | 6.70  | 19.57 | 2.68  |
| 1.600                          | 1.34  | 7.600 | 2.68  | 13.600 | 6.70  | 19.60 | 2.68  |
| 1.633                          | 1.34  | 7.633 | 2.68  | 13.633 | 6.70  | 19.63 | 2.01  |
| 1.667                          | 1.34  | 7.667 | 2.68  | 13.667 | 6.70  | 19.67 | 2.01  |
| 1.700                          | 1.34  | 7.700 | 2.68  | 13.700 | 6.70  | 19.70 | 2.01  |
| 1.733                          | 1.34  | 7.733 | 2.68  | 13.733 | 6.70  | 19.73 | 2.01  |
| 1.767                          | 1.34  | 7.767 | 2.68  | 13.767 | 6.70  | 19.77 | 2.01  |
| 1.800                          | 1.34  | 7.800 | 2.68  | 13.800 | 6.70  | 19.80 | 2.01  |
| 1.833                          | 1.34  | 7.833 | 2.68  | 13.833 | 6.70  | 19.83 | 2.68  |
| 1.867                          | 1.34  | 7.867 | 2.68  | 13.867 | 6.70  | 19.87 | 2.68  |
| 1.900                          | 1.34  | 7.900 | 2.68  | 13.900 | 6.70  | 19.90 | 2.68  |
| 1.933                          | 1.34  | 7.933 | 2.68  | 13.933 | 6.70  | 19.93 | 2.68  |
| 1.967                          | 1.34  | 7.967 | 2.68  | 13.967 | 6.70  | 19.97 | 2.68  |
| 2.000                          | 1.34  | 8.000 | 2.68  | 14.000 | 6.69  | 20.00 | 2.68  |
| 2.033                          | 1.34  | 8.033 | 4.02  | 14.033 | 4.02  | 20.03 | 2.01  |
| 2.067                          | 1.34  | 8.067 | 4.02  | 14.067 | 4.02  | 20.07 | 2.01  |
| 2.100                          | 1.34  | 8.100 | 4.02  | 14.100 | 4.02  | 20.10 | 2.01  |
| 2.133                          | 1.34  | 8.133 | 4.02  | 14.133 | 4.02  | 20.13 | 2.01  |
| 2.167                          | 1.34  | 8.167 | 4.02  | 14.167 | 4.02  | 20.17 | 2.01  |
| 2.200                          | 1.34  | 8.200 | 4.02  | 14.200 | 4.02  | 20.20 | 2.01  |
| 2.233                          | 1.34  | 8.233 | 4.02  | 14.233 | 4.02  | 20.23 | 2.01  |

|       |      |       |      |        |      |       |      |
|-------|------|-------|------|--------|------|-------|------|
| 2.267 | 1.34 | 8.267 | 4.02 | 14.267 | 4.02 | 20.27 | 2.01 |
| 2.300 | 1.34 | 8.300 | 4.02 | 14.300 | 4.02 | 20.30 | 2.01 |
| 2.333 | 1.34 | 8.333 | 4.02 | 14.333 | 4.02 | 20.33 | 2.01 |
| 2.367 | 1.34 | 8.367 | 4.02 | 14.367 | 4.02 | 20.37 | 2.01 |
| 2.400 | 1.34 | 8.400 | 4.02 | 14.400 | 4.02 | 20.40 | 2.01 |
| 2.433 | 1.34 | 8.433 | 4.02 | 14.433 | 4.02 | 20.43 | 1.34 |
| 2.467 | 1.34 | 8.467 | 4.02 | 14.467 | 4.02 | 20.47 | 1.34 |
| 2.500 | 1.34 | 8.500 | 4.02 | 14.500 | 4.02 | 20.50 | 1.34 |
| 2.533 | 1.34 | 8.533 | 4.02 | 14.533 | 4.02 | 20.53 | 1.34 |
| 2.567 | 1.34 | 8.567 | 4.02 | 14.567 | 4.02 | 20.57 | 1.34 |
| 2.600 | 1.34 | 8.600 | 4.02 | 14.600 | 4.02 | 20.60 | 1.34 |
| 2.633 | 1.34 | 8.633 | 4.02 | 14.633 | 4.02 | 20.63 | 2.01 |
| 2.667 | 1.34 | 8.667 | 4.02 | 14.667 | 4.02 | 20.67 | 2.01 |
| 2.700 | 1.34 | 8.700 | 4.02 | 14.700 | 4.02 | 20.70 | 2.01 |
| 2.733 | 1.34 | 8.733 | 4.02 | 14.733 | 4.02 | 20.73 | 2.01 |
| 2.767 | 1.34 | 8.767 | 4.02 | 14.767 | 4.02 | 20.77 | 2.01 |
| 2.800 | 1.34 | 8.800 | 4.02 | 14.800 | 4.02 | 20.80 | 2.01 |
| 2.833 | 1.34 | 8.833 | 4.02 | 14.833 | 4.02 | 20.83 | 2.01 |
| 2.867 | 1.34 | 8.867 | 4.02 | 14.867 | 4.02 | 20.87 | 2.01 |
| 2.900 | 1.34 | 8.900 | 4.02 | 14.900 | 4.02 | 20.90 | 2.01 |
| 2.933 | 1.34 | 8.933 | 4.02 | 14.933 | 4.02 | 20.93 | 2.01 |
| 2.967 | 1.34 | 8.967 | 4.02 | 14.967 | 4.02 | 20.97 | 2.01 |
| 3.000 | 1.34 | 9.000 | 4.02 | 15.000 | 4.02 | 21.00 | 2.01 |
| 3.033 | 1.34 | 9.033 | 4.02 | 15.033 | 3.35 | 21.03 | 1.34 |
| 3.067 | 1.34 | 9.067 | 4.02 | 15.067 | 3.35 | 21.07 | 1.34 |
| 3.100 | 1.34 | 9.100 | 4.02 | 15.100 | 3.35 | 21.10 | 1.34 |
| 3.133 | 1.34 | 9.133 | 4.02 | 15.133 | 3.35 | 21.13 | 1.34 |
| 3.167 | 1.34 | 9.167 | 4.02 | 15.167 | 3.35 | 21.17 | 1.34 |
| 3.200 | 1.34 | 9.200 | 4.02 | 15.200 | 3.35 | 21.20 | 1.34 |
| 3.233 | 1.34 | 9.233 | 4.02 | 15.233 | 3.35 | 21.23 | 2.01 |
| 3.267 | 1.34 | 9.267 | 4.02 | 15.267 | 3.35 | 21.27 | 2.01 |
| 3.300 | 1.34 | 9.300 | 4.02 | 15.300 | 3.35 | 21.30 | 2.01 |
| 3.333 | 1.34 | 9.333 | 4.02 | 15.333 | 3.35 | 21.33 | 2.01 |
| 3.367 | 1.34 | 9.367 | 4.02 | 15.367 | 3.35 | 21.37 | 2.01 |
| 3.400 | 1.34 | 9.400 | 4.02 | 15.400 | 3.35 | 21.40 | 2.01 |
| 3.433 | 1.34 | 9.433 | 4.02 | 15.433 | 3.35 | 21.43 | 1.34 |
| 3.467 | 1.34 | 9.467 | 4.02 | 15.467 | 3.35 | 21.47 | 1.34 |
| 3.500 | 1.34 | 9.500 | 4.02 | 15.500 | 3.35 | 21.50 | 1.34 |
| 3.533 | 1.34 | 9.533 | 4.02 | 15.533 | 3.35 | 21.53 | 1.34 |
| 3.567 | 1.34 | 9.567 | 4.02 | 15.567 | 3.35 | 21.57 | 1.34 |
| 3.600 |      |       |      |        |      |       |      |

| ADD HYD ( 0041)   |              |                |                |              |
|-------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3         |              |                |                |              |
|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0403):   | 2.87         | 0.705          | 12.03          | 86.61        |
| + ID2= 2 ( 0404): | 0.85         | 0.202          | 12.10          | 97.87        |
| =====             |              |                |                |              |
| ID = 3 ( 0041):   | 3.72         | 0.903          | 12.07          | 89.18        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD ( 0042)   |              |                |                |              |
|-------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3         |              |                |                |              |
|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0040):   | 13.55        | 3.231          | 12.07          | 86.52        |
| + ID2= 2 ( 0041): | 3.72         | 0.903          | 12.07          | 89.18        |
| =====             |              |                |                |              |
| ID = 3 ( 0042):   | 17.27        | 4.134          | 12.07          | 87.10        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR( 0202)                         |                  |                    |                  |                    |
|------------------------------------------|------------------|--------------------|------------------|--------------------|
| IN= 2---> OUT= 1                         |                  |                    |                  |                    |
| DT= 2.0 min                              |                  |                    |                  |                    |
| OVERFLOW IS OFF                          |                  |                    |                  |                    |
|                                          | OUTFLOW<br>(cms) | STORAGE<br>(ha.m.) | OUTFLOW<br>(cms) | STORAGE<br>(ha.m.) |
|                                          | 0.0000           | 0.0000             | 1.2780           | 0.5195             |
|                                          | 0.0070           | 0.0918             | 1.4910           | 0.6170             |
|                                          | 0.0500           | 0.1672             | 1.7350           | 0.7524             |
|                                          | 0.1740           | 0.2483             | 2.7110           | 0.8941             |
|                                          | 0.6720           | 0.3349             | 5.2440           | 1.1182             |
|                                          | 1.0220           | 0.4254             | 0.0000           | 0.0000             |
|                                          | AREA<br>(ha)     | QPEAK<br>(cms)     | TPEAK<br>(hrs)   | R.V.<br>(mm)       |
| INFLOW : ID= 2 ( 0042)                   | 17.270           | 4.134              | 12.07            | 87.10              |
| OUTFLOW: ID= 1 ( 0202)                   | 17.270           | 1.495              | 12.37            | 84.90              |
| =====                                    |                  |                    |                  |                    |
| PEAK FLOW REDUCTION [Qout/Qin](%)= 36.16 |                  |                    |                  |                    |
| TIME SHIFT OF PEAK FLOW (min)= 18.00     |                  |                    |                  |                    |
| MAXIMUM STORAGE USED (ha.m.)= 0.6191     |                  |                    |                  |                    |

| ADD HYD ( 0080)   |              |                |                |              |
|-------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3         |              |                |                |              |
|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0202):   | 17.27        | 1.495          | 12.37          | 84.90        |
| + ID2= 2 ( 0033): | 14.33        | 1.041          | 12.30          | 73.69        |
| =====             |              |                |                |              |
| ID = 3 ( 0080):   | 31.60        | 2.529          | 12.33          | 79.82        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| V   | V     | I     | SSSSS | U     | U | A    | L    |     |
|-----|-------|-------|-------|-------|---|------|------|-----|
| V   | V     | I     | SS    | U     | U | A    | A    | L   |
| V   | V     | I     | SS    | U     | U | AAAA | A    | L   |
| V   | V     | I     | SS    | U     | U | A    | A    | L   |
| VV  | V     | I     | SSSSS | UUUUU | A | L    | LLLL |     |
| 000 | TTTTT | TTTTT | H     | H     | Y | Y    | M    | 000 |
| 0   | 0     | T     | T     | H     | H | Y    | Y    | MM  |
| 0   | 0     | T     | T     | H     | H | Y    | Y    | M   |
| 000 | T     | T     | H     | H     | Y | Y    | M    | 000 |

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\*\*\*\*\* D E T A I L E D O U T P U T \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\577c50d1d-6a10-4f32-be40-83fde9009059\fb8b59ed-7676-4d20-9ac8-a0455728b7dc\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\577c50d1d-6a10-4f32-be40-83fde9009059\fb8b59ed-7676-4d20-9ac8-a0455728b7dc\sc

DATE: 09/21/2025 TIME: 03:01:38

USER:

COMMENTS:

\*\* SIMULATION : 10yr 24hr 12min SCS Type II ( \*\*

MASS STORM  
Filename: C:\Users\hfaulkner\AppData\Local\Temp\732e9928-e126-4c89-9ccf-fd4c260976d9\7ea4ee1e  
Comments: 24-hour SCS Type-II Mass Storm Curve  
Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.00        | 0.94          | 6.00        | 1.87          | 12.00       | 18.74         | 18.00       | 1.41          |
| 0.20        | 0.94          | 6.20        | 1.87          | 12.20       | 11.71         | 18.20       | 1.41          |
| 0.40        | 0.94          | 6.40        | 1.87          | 12.40       | 8.43          | 18.40       | 1.87          |
| 0.60        | 0.94          | 6.60        | 1.87          | 12.60       | 7.96          | 18.60       | 1.41          |
| 0.80        | 0.94          | 6.80        | 1.87          | 12.80       | 5.62          | 18.80       | 1.41          |
| 1.00        | 0.94          | 7.00        | 1.87          | 13.00       | 4.68          | 19.00       | 1.87          |
| 1.20        | 0.94          | 7.20        | 1.87          | 13.20       | 4.68          | 19.20       | 1.41          |
| 1.40        | 0.94          | 7.40        | 1.87          | 13.40       | 4.68          | 19.40       | 1.87          |
| 1.60        | 0.94          | 7.60        | 1.87          | 13.60       | 4.68          | 19.60       | 1.41          |
| 1.80        | 0.94          | 7.80        | 1.87          | 13.80       | 4.69          | 19.80       | 1.87          |
| 2.00        | 0.94          | 8.00        | 2.81          | 14.00       | 2.81          | 20.00       | 1.41          |
| 2.20        | 0.94          | 8.20        | 2.81          | 14.20       | 2.81          | 20.20       | 1.41          |
| 2.40        | 0.94          | 8.40        | 2.81          | 14.40       | 2.81          | 20.40       | 0.94          |
| 2.60        | 0.94          | 8.60        | 2.81          | 14.60       | 2.81          | 20.60       | 1.41          |
| 2.80        | 0.94          | 8.80        | 2.81          | 14.80       | 2.81          | 20.80       | 1.41          |
| 3.00        | 0.94          | 9.00        | 2.81          | 15.00       | 2.34          | 21.00       | 0.94          |
| 3.20        | 0.94          | 9.20        | 2.81          | 15.20       | 2.34          | 21.20       | 1.41          |

|      |      |       |        |       |      |       |      |
|------|------|-------|--------|-------|------|-------|------|
| 3.40 | 0.94 | 9.40  | 2.81   | 15.40 | 2.34 | 21.40 | 0.94 |
| 3.60 | 0.94 | 9.60  | 2.81   | 15.60 | 2.34 | 21.60 | 1.41 |
| 3.80 | 0.94 | 9.80  | 2.81   | 15.80 | 2.34 | 21.80 | 0.94 |
| 4.00 | 1.87 | 10.00 | 5.15   | 16.00 | 2.34 | 22.00 | 0.94 |
| 4.20 | 1.87 | 10.20 | 5.15   | 16.20 | 2.34 | 22.20 | 1.41 |
| 4.40 | 1.87 | 10.40 | 5.15   | 16.40 | 2.34 | 22.40 | 0.94 |
| 4.60 | 1.87 | 10.60 | 5.15   | 16.60 | 2.34 | 22.60 | 1.41 |
| 4.80 | 1.87 | 10.80 | 5.15   | 16.80 | 1.41 | 22.80 | 0.94 |
| 5.00 | 1.87 | 11.00 | 7.03   | 17.00 | 1.41 | 23.00 | 0.94 |
| 5.20 | 1.87 | 11.20 | 10.31  | 17.20 | 1.87 | 23.20 | 0.94 |
| 5.40 | 1.87 | 11.40 | 24.83  | 17.40 | 1.41 | 23.40 | 1.41 |
| 5.60 | 1.87 | 11.60 | 51.53  | 17.60 | 1.87 | 23.60 | 0.94 |
| 5.80 | 1.87 | 11.80 | 105.41 | 17.80 | 1.41 | 23.80 | 0.94 |

CALIB  
NASHYD ( 0301)  
ID= 1 DT= 2.0 min  
Area (ha)= 1.19  
Ia (mm)= 6.80  
U.H. Tp(hrs)= 0.24  
Curve Number (CN)= 81.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |               |             |               |             |               |             |               |
|--------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                    | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                          | 0.94          | 6.033       | 1.87          | 12.033      | 18.74         | 18.03       | 1.41          |
| 0.067                          | 0.94          | 6.067       | 1.87          | 12.067      | 18.74         | 18.07       | 1.41          |
| 0.100                          | 0.94          | 6.100       | 1.87          | 12.100      | 18.74         | 18.10       | 1.41          |
| 0.133                          | 0.94          | 6.133       | 1.87          | 12.133      | 18.74         | 18.13       | 1.41          |
| 0.167                          | 0.94          | 6.167       | 1.87          | 12.167      | 18.74         | 18.17       | 1.41          |
| 0.200                          | 0.94          | 6.200       | 1.87          | 12.200      | 18.73         | 18.20       | 1.41          |
| 0.233                          | 0.94          | 6.233       | 1.87          | 12.233      | 11.71         | 18.23       | 1.41          |
| 0.267                          | 0.94          | 6.267       | 1.87          | 12.267      | 11.71         | 18.27       | 1.41          |
| 0.300                          | 0.94          | 6.300       | 1.87          | 12.300      | 11.71         | 18.30       | 1.41          |
| 0.333                          | 0.94          | 6.333       | 1.87          | 12.333      | 11.71         | 18.33       | 1.41          |
| 0.367                          | 0.94          | 6.367       | 1.87          | 12.367      | 11.71         | 18.37       | 1.41          |
| 0.400                          | 0.94          | 6.400       | 1.87          | 12.400      | 11.71         | 18.40       | 1.41          |
| 0.433                          | 0.94          | 6.433       | 1.87          | 12.433      | 8.43          | 18.43       | 1.87          |
| 0.467                          | 0.94          | 6.467       | 1.87          | 12.467      | 8.43          | 18.47       | 1.87          |
| 0.500                          | 0.94          | 6.500       | 1.87          | 12.500      | 8.43          | 18.50       | 1.87          |
| 0.533                          | 0.94          | 6.533       | 1.87          | 12.533      | 8.43          | 18.53       | 1.87          |
| 0.567                          | 0.94          | 6.567       | 1.87          | 12.567      | 8.43          | 18.57       | 1.87          |
| 0.600                          | 0.94          | 6.600       | 1.87          | 12.600      | 8.43          | 18.60       | 1.87          |
| 0.633                          | 0.94          | 6.633       | 1.87          | 12.633      | 7.96          | 18.63       | 1.41          |
| 0.667                          | 0.94          | 6.667       | 1.87          | 12.667      | 7.96          | 18.67       | 1.41          |
| 0.700                          | 0.94          | 6.700       | 1.87          | 12.700      | 7.96          | 18.70       | 1.41          |
| 0.733                          | 0.94          | 6.733       | 1.87          | 12.733      | 7.96          | 18.73       | 1.41          |
| 0.767                          | 0.94          | 6.767       | 1.87          | 12.767      | 7.96          | 18.77       | 1.41          |
| 0.800                          | 0.94          | 6.800       | 1.87          | 12.800      | 7.96          | 18.80       | 1.41          |
| 0.833                          | 0.94          | 6.833       | 1.87          | 12.833      | 5.62          | 18.83       | 1.41          |
| 0.867                          | 0.94          | 6.867       | 1.87          | 12.867      | 5.62          | 18.87       | 1.41          |
| 0.900                          | 0.94          | 6.900       | 1.87          | 12.900      | 5.62          | 18.90       | 1.41          |
| 0.933                          | 0.94          | 6.933       | 1.87          | 12.933      | 5.62          | 18.93       | 1.41          |
| 0.967                          | 0.94          | 6.967       | 1.87          | 12.967      | 5.62          | 18.97       | 1.41          |
| 1.000                          | 0.94          | 7.000       | 1.87          | 13.000      | 5.62          | 19.00       | 1.41          |
| 1.033                          | 0.94          | 7.033       | 1.87          | 13.033      | 4.68          | 19.03       | 1.87          |
| 1.067                          | 0.94          | 7.067       | 1.87          | 13.067      | 4.68          | 19.07       | 1.87          |
| 1.100                          | 0.94          | 7.100       | 1.87          | 13.100      | 4.68          | 19.10       | 1.87          |
| 1.133                          | 0.94          | 7.133       | 1.87          | 13.133      | 4.68          | 19.13       | 1.87          |
| 1.167                          | 0.94          | 7.167       | 1.87          | 13.167      | 4.68          | 19.17       | 1.87          |
| 1.200                          | 0.94          | 7.200       | 1.87          | 13.200      | 4.69          | 19.20       | 1.87          |
| 1.233                          | 0.94          | 7.233       | 1.87          | 13.233      | 4.68          | 19.23       | 1.41          |
| 1.267                          | 0.94          | 7.267       | 1.87          | 13.267      | 4.68          | 19.27       | 1.41          |
| 1.300                          | 0.94          | 7.300       | 1.87          | 13.300      | 4.68          | 19.30       | 1.41          |
| 1.333                          | 0.94          | 7.333       | 1.87          | 13.333      | 4.68          | 19.33       | 1.41          |
| 1.367                          | 0.94          | 7.367       | 1.87          | 13.367      | 4.68          | 19.37       | 1.41          |
| 1.400                          | 0.94          | 7.400       | 1.87          | 13.400      | 4.69          | 19.40       | 1.41          |
| 1.433                          | 0.94          | 7.433       | 1.87          | 13.433      | 4.68          | 19.43       | 1.87          |
| 1.467                          | 0.94          | 7.467       | 1.87          | 13.467      | 4.68          | 19.47       | 1.87          |
| 1.500                          | 0.94          | 7.500       | 1.87          | 13.500      | 4.68          | 19.50       | 1.87          |
| 1.533                          | 0.94          | 7.533       | 1.87          | 13.533      | 4.68          | 19.53       | 1.87          |
| 1.567                          | 0.94          | 7.567       | 1.87          | 13.567      | 4.68          | 19.57       | 1.87          |
| 1.600                          | 0.94          | 7.600       | 1.87          | 13.600      | 4.69          | 19.60       | 1.87          |
| 1.633                          | 0.94          | 7.633       | 1.87          | 13.633      | 4.68          | 19.63       | 1.41          |
| 1.667                          | 0.94          | 7.667       | 1.87          | 13.667      | 4.68          | 19.67       | 1.41          |
| 1.700                          | 0.94          | 7.700       | 1.87          | 13.700      | 4.68          | 19.70       | 1.41          |
| 1.733                          | 0.94          | 7.733       | 1.87          | 13.733      | 4.68          | 19.73       | 1.41          |
| 1.767                          | 0.94          | 7.767       | 1.87          | 13.767      | 4.68          | 19.77       | 1.41          |
| 1.800                          | 0.94          | 7.800       | 1.87          | 13.800      | 4.69          | 19.80       | 1.41          |
| 1.833                          | 0.94          | 7.833       | 1.87          | 13.833      | 4.69          | 19.83       | 1.87          |
| 1.867                          | 0.94          | 7.867       | 1.87          | 13.867      | 4.69          | 19.87       | 1.87          |
| 1.900                          | 0.94          | 7.900       | 1.87          | 13.900      | 4.69          | 19.90       | 1.87          |
| 1.933                          | 0.94          | 7.933       | 1.87          | 13.933      | 4.69          | 19.93       | 1.87          |
| 1.967                          | 0.94          | 7.967       | 1.87          | 13.967      | 4.69          | 19.97       | 1.87          |
| 2.000                          | 0.94          | 8.000       | 1.87          | 14.000      | 4.68          | 20.00       | 1.87          |
| 2.033                          | 0.94          | 8.033       | 2.81          | 14.033      | 2.81          | 20.03       | 1.41          |
| 2.067                          | 0.94          | 8.067       | 2.81          | 14.067      | 2.81          | 20.07       | 1.41          |
| 2.100                          | 0.94          | 8.100       | 2.81          | 14.100      | 2.81          | 20.10       | 1.41          |
| 2.133                          | 0.94          | 8.133       | 2.81          | 14.133      | 2.81          | 20.13       | 1.41          |
| 2.167                          | 0.94          | 8.167       | 2.81          | 14.167      | 2.81          | 20.17       | 1.41          |
| 2.200                          | 0.94          | 8.200       | 2.81          | 14.200      | 2.81          | 20.20       | 1.41          |
| 2.233                          | 0.94          | 8.233       | 2.81          | 14.233      | 2.81          | 20.23       | 1.41          |

|       |      |       |      |        |      |       |      |
|-------|------|-------|------|--------|------|-------|------|
| 0.800 | 0.94 | 6.800 | 1.87 | 12.800 | 7.96 | 18.80 | 1.41 |
| 0.833 | 0.94 | 6.833 | 1.87 | 12.833 | 5.62 | 18.83 | 1.41 |
| 0.867 | 0.94 | 6.867 | 1.87 | 12.867 | 5.62 | 18.87 | 1.41 |
| 0.900 | 0.94 | 6.900 | 1.87 | 12.900 | 5.62 | 18.90 | 1.41 |
| 0.933 | 0.94 | 6.933 | 1.87 | 12.933 | 5.62 | 18.93 | 1.41 |
| 0.967 | 0.94 | 6.967 | 1.87 | 12.967 | 5.62 | 18.97 | 1.41 |
| 1.000 | 0.94 | 7.000 | 1.87 | 13.000 | 5.62 | 19.00 | 1.41 |
| 1.033 | 0.94 | 7.033 | 1.87 | 13.033 | 4.68 | 19.03 | 1.87 |
| 1.067 | 0.94 | 7.067 | 1.87 | 13.067 | 4.68 | 19.07 | 1.87 |
| 1.100 | 0.94 | 7.100 | 1.87 | 13.100 | 4.68 | 19.10 | 1.87 |
| 1.133 | 0.94 | 7.133 | 1.87 | 13.133 | 4.68 | 19.13 | 1.87 |
| 1.167 | 0.94 | 7.167 | 1.87 | 13.167 | 4.68 | 19.17 | 1.87 |
| 1.200 | 0.94 | 7.200 | 1.87 | 13.200 | 4.69 | 19.20 | 1.87 |
| 1.233 | 0.94 | 7.233 | 1.87 | 13.233 | 4.68 | 19.23 | 1.41 |
| 1.267 | 0.94 | 7.267 | 1.87 | 13.267 | 4.68 | 19.27 | 1.41 |
| 1.300 | 0.94 | 7.300 | 1.87 | 13.300 | 4.68 | 19.30 | 1.41 |
| 1.333 | 0.94 | 7.333 | 1.87 | 13.333 | 4.68 | 19.33 | 1.41 |
| 1.367 | 0.94 | 7.367 | 1.87 | 13.367 | 4.68 | 19.37 | 1.41 |
| 1.400 | 0.94 | 7.400 | 1.87 | 13.400 | 4.69 | 19.40 | 1.41 |
| 1.433 | 0.94 | 7.433 | 1.87 | 13.433 | 4.68 | 19.43 | 1.87 |
| 1.467 | 0.94 | 7.467 | 1.87 | 13.467 | 4.68 | 19.47 | 1.87 |
| 1.500 | 0.94 | 7.500 | 1.87 | 13.500 | 4.68 | 19.50 | 1.87 |
| 1.533 | 0.94 | 7.533 | 1.87 | 13.533 | 4.68 | 19.53 | 1.87 |
| 1.567 | 0.94 | 7.567 | 1.87 | 13.567 | 4.68 | 19.57 | 1.87 |
| 1.600 | 0.94 | 7.600 | 1.87 | 13.600 | 4.69 | 19.60 | 1.87 |
| 1.633 | 0.94 | 7.633 | 1.87 | 13.633 | 4.68 | 19.63 | 1.41 |
| 1.667 | 0.94 | 7.667 | 1.87 | 13.667 | 4.68 | 19.67 | 1.41 |
| 1.700 | 0.94 | 7.700 | 1.87 | 13.700 | 4.68 | 19.70 | 1.41 |
| 1.733 | 0.94 | 7.733 | 1.87 | 13.733 | 4.68 | 19.73 | 1.41 |
| 1.767 | 0.94 | 7.767 | 1.87 | 13.767 | 4.68 | 19.77 | 1.41 |
| 1.800 | 0.94 | 7.800 | 1.87 | 13.800 | 4.69 | 19.80 | 1.41 |
| 1.833 | 0.94 | 7.833 | 1.87 | 13.833 | 4.69 | 19.83 | 1.87 |
| 1.867 | 0.94 | 7.867 | 1.87 | 13.867 | 4.69 | 19.87 | 1.87 |
| 1.900 | 0.94 | 7.900 | 1.87 | 13.900 | 4.69 | 19.90 | 1.87 |
| 1.933 | 0.94 | 7.933 | 1.87 | 13.933 | 4.69 | 19.93 | 1.87 |
| 1.967 | 0.94 | 7.967 | 1.87 | 13.967 | 4.69 | 19.97 | 1.87 |
| 2.000 | 0.94 | 8.000 | 1.87 | 14.000 | 4.68 | 20.00 | 1.87 |
| 2.033 | 0.94 | 8.033 | 2.81 | 14.033 | 2.81 | 20.03 | 1.41 |
| 2.067 | 0.94 | 8.067 | 2.81 | 14.067 | 2.81 | 20.07 | 1.41 |
| 2.100 | 0.94 | 8.100 | 2.81 | 14.100 | 2.81 | 20.10 | 1.41 |
| 2.133 | 0.94 | 8.133 | 2.81 | 14.133 | 2.81 | 20.13 | 1.41 |
| 2.167 | 0.94 | 8.167 | 2.81 | 14.167 | 2.81 | 20.17 | 1.41 |
| 2.200 | 0.94 | 8.200 | 2.81 | 14.200 | 2.81 | 20.20 | 1.41 |
| 2.233 | 0.94 | 8.233 | 2.81 | 14.233 | 2.81 | 20.23 | 1.41 |
| 2.267 | 0.94 | 8.267 | 2.81 | 14.267 | 2.81 | 20.27 | 1.41 |
| 2.300 | 0.94 | 8.300 | 2.81 | 14.300 | 2.81 | 20.30 | 1.41 |
| 2.333 | 0.94 | 8.333 | 2.81 | 14.333 | 2.81 | 20.33 | 1.41 |
| 2.367 | 0.94 | 8.367 | 2.81 | 14.367 | 2.81 | 20.37 | 1.41 |
| 2.400 | 0.94 | 8.400 | 2.81 | 14.400 | 2.81 | 20.40 | 1.41 |
| 2.433 | 0.94 | 8.433 | 2.81 | 14.433 | 2.81 | 20.43 | 0.94 |
| 2.467 | 0.94 | 8.467 | 2.81 | 14.467 | 2.81 | 20.47 | 0.94 |
| 2.500 | 0.94 | 8.500 | 2.81 | 14.500 | 2.81 | 20.50 | 0.94 |
| 2.533 | 0.94 | 8.533 | 2.81 | 14.533 | 2.81 | 20.53 | 0.94 |
| 2.567 | 0.94 | 8.567 | 2.81 | 14.567 | 2.81 | 20.57 | 0.94 |
| 2.600 | 0.94 | 8.600 | 2.81 | 14.600 | 2.81 | 20.60 | 0.94 |
| 2.633 | 0.94 | 8.633 | 2.81 | 14.633 | 2.81 | 20.63 | 1.41 |
| 2.667 | 0.94 | 8.667 | 2.81 | 14.667 | 2.81 | 20.67 | 1.41 |
| 2.700 | 0.94 | 8.700 | 2.81 | 14.700 | 2.81 | 20.70 | 1.41 |
| 2.733 | 0.94 | 8.733 | 2.81 | 14.733 | 2.81 | 20.73 | 1.41 |
| 2.767 | 0.94 | 8.767 | 2.81 | 14.767 | 2.81 | 20.77 | 1.41 |
| 2.800 | 0.94 | 8.800 | 2.81 | 14.800 | 2.81 | 20.80 | 1.41 |
| 2.833 | 0.94 | 8.833 | 2.81 | 14.833 | 2.81 | 20.83 | 1.41 |
| 2.867 | 0.94 | 8.867 | 2.81 | 14.867 | 2.81 | 20.87 | 1.41 |
| 2.900 | 0.94 | 8.900 | 2.81 | 14.900 | 2.81 | 20.90 | 1.41 |
| 2.933 | 0.94 | 8.933 | 2.81 | 14.933 | 2.81 | 20.93 | 1.41 |
| 2.967 | 0.94 | 8.967 | 2.81 | 14.967 | 2.81 | 20.97 | 1.41 |
| 3.000 | 0.94 | 9.000 | 2.81 | 15.000 | 2.81 | 21.00 | 1.41 |
| 3.033 | 0.94 | 9.033 | 2.81 | 15.033 | 2.34 | 21.03 | 0.94 |
| 3.067 | 0.94 | 9.067 | 2.81 | 15.067 | 2.34 | 21.07 | 0.94 |
| 3.100 | 0.94 | 9.100 | 2.81 | 15.100 | 2.34 | 21.10 | 0.94 |
| 3.133 | 0.94 | 9.133 | 2.81 | 15.133 | 2.34 | 21.13 | 0.94 |
| 3.167 | 0.94 | 9.167 | 2.81 | 15.167 | 2.34 | 21.17 | 0.94 |
| 3.200 | 0.94 | 9.200 | 2.81 | 15.200 | 2.34 | 21.20 | 0.94 |
| 3.233 | 0.94 | 9.233 | 2.81 | 15.233 | 2.34 | 21.23 | 1.41 |
| 3.267 | 0.94 | 9.267 | 2.81 | 15.267 | 2.34 | 21.27 | 1.41 |
| 3.300 | 0.94 | 9.300 | 2.81 | 15.300 | 2.34 | 21.30 | 1.41 |
| 3.333 | 0.94 | 9.333 | 2.81 | 15.333 | 2.34 | 21.33 | 1.41 |
| 3.367 | 0.94 | 9.367 | 2.81 | 15.367 | 2.34 | 21.37 | 1.41 |
| 3.400 | 0.94 | 9.400 | 2.81 | 15.400 | 2.34 | 21.40 | 1.41 |
| 3.433 | 0.94 | 9.433 | 2.81 | 15.433 | 2.34 | 21.43 | 0.94 |

|                    |        |           |
|--------------------|--------|-----------|
| PEAK FLOW          | (cms)= | 0.136 (i) |
| TIME TO PEAK       | (hrs)= | 12.133    |
| RUNOFF VOLUME      | (mm)=  | 51.551    |
| TOTAL RAINFALL     | (mm)=  | 93.699    |
| RUNOFF COEFFICIENT | =      | 0.550     |

|                   |               |      |                      |      |
|-------------------|---------------|------|----------------------|------|
| CALIB             | Area (ha)=    | 2.75 | Curve Number (CN)=   | 81.0 |
| NASHYD ( 0302)    | Ia (mm)=      | 6.80 | # of Linear Res.(N)= | 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= | 0.21 |                      |      |

| ----- TRANSFORMED HETEROGRAPH ----- |               |             |               |             |               |             |               |
|-------------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                         | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                               | 0.94          | 0.033       | 1.87          | 12.033      | 18.74         | 18.03       | 1.41          |
| 0.067                               | 0.94          | 0.067       | 1.87          | 12.067      | 18.74         | 18.07       | 1.41          |
| 0.100                               | 0.94          | 0.100       | 1.87          | 12.100      | 18.74         | 18.10       | 1.41          |
| 0.133                               | 0.94          | 0.133       | 1.87          | 12.133      | 18.74         | 18.13       | 1.41          |
| 0.167                               | 0.94          | 0.167       | 1.87          | 12.167      | 18.74         | 18.17       | 1.41          |
| 0.200                               | 0.94          | 0.200       | 1.87          | 12.200      | 18.73         | 18.20       | 1.41          |
| 0.233                               | 0.94          | 0.233       | 1.87          | 12.233      | 11.71         | 18.23       | 1.41          |
| 0.267                               | 0.94          | 0.267       | 1.87          | 12.267      | 11.71         | 18.27       | 1.41          |
| 0.300                               | 0.94          | 0.300       | 1.87          | 12.300      | 11.71         | 18.30       | 1.41          |
| 0.333                               | 0.94          | 0.333       | 1.87          | 12.333      | 11.71         | 18.33       | 1.41          |
| 0.367                               | 0.94          | 0.367       | 1.87          | 12.367      | 11.71         | 18.37       | 1.41          |
| 0.400                               | 0.94          | 0.400       | 1.87          | 12.400      | 11.71         | 18.40       | 1.41          |
| 0.433                               | 0.94          | 0.433       | 1.87          | 12.433      | 8.43          | 18.43       | 1.87          |
| 0.467                               | 0.94          | 0.467       | 1.87          | 12.467      | 8.43          | 18.47       | 1.87          |
| 0.500                               | 0.94          | 0.500       | 1.87          | 12.500      | 8.43          | 18.50       | 1.87          |
| 0.533                               | 0.94          | 0.533       | 1.87          | 12.533      | 8.43          | 18.53       | 1.87          |
| 0.567                               | 0.94          | 0.567       | 1.87          | 12.567      | 8.43          | 18.57       | 1.87          |
| 0.600                               | 0.94          | 0.600       | 1.87          | 12.600      | 7.96          | 18.60       | 1.87          |
| 0.633                               | 0.94          | 0.633       | 1.87          | 12.633      | 7.96          | 18.63       | 1.41          |
| 0.667                               | 0.94          | 0.667       | 1.87          | 12.667      | 7.96          | 18.67       | 1.41          |
| 0.700                               | 0.94          | 0.700       | 1.87          | 12.700      | 7.96          | 18.70       | 1.41          |
| 0.733                               | 0.94          | 0.733       | 1.87          | 12.733      | 7.96          | 18.73       | 1.41          |
| 0.767                               | 0.94          | 0.767       | 1.87          | 12.767      | 7.96          | 18.77       | 1.41          |

5.033 1.87 11.033 7.03 17.033 1.41 23.03 0.94  
5.067 1.87 11.067 7.03 17.067 1.41 23.07 0.94  
5.100 1.87 11.100 7.03 17.100 1.41 23.10 0.94  
5.133 1.87 11.133 7.03 17.133 1.41 23.13 0.94  
5.167 1.87 11.167 7.03 17.167 1.41 23.17 0.94  
5.200 1.87 11.200 7.03 17.200 1.41 23.20 0.94  
5.233 1.87 11.233 10.31 17.233 1.87 23.23 0.94  
5.267 1.87 11.267 10.31 17.267 1.87 23.27 0.94  
5.300 1.87 11.300 10.31 17.300 1.87 23.30 0.94  
5.333 1.87 11.333 10.31 17.333 1.87 23.33 0.94  
5.367 1.87 11.367 10.31 17.367 1.87 23.37 0.94  
5.400 1.87 11.400 10.32 17.400 1.87 23.40 0.94  
5.433 1.87 11.433 24.83 17.433 1.41 23.43 1.41  
5.467 1.87 11.467 24.83 17.467 1.41 23.47 1.41  
5.500 1.87 11.500 24.83 17.500 1.41 23.50 1.41  
5.533 1.87 11.533 24.83 17.533 1.41 23.53 1.41  
5.567 1.87 11.567 24.83 17.567 1.41 23.57 1.41  
5.600 1.87 11.600 24.86 17.600 1.41 23.60 1.41  
5.633 1.87 11.633 51.53 17.633 1.87 23.63 0.94  
5.667 1.87 11.667 51.53 17.667 1.87 23.67 0.94  
5.700 1.87 11.700 51.53 17.700 1.87 23.70 0.94  
5.733 1.87 11.733 51.53 17.733 1.87 23.73 0.94  
5.767 1.87 11.767 51.53 17.767 1.87 23.77 0.94  
5.800 1.87 11.800 51.61 17.800 1.87 23.80 0.94  
5.833 1.87 11.833 105.41 17.833 1.41 23.83 0.94  
5.867 1.87 11.867 105.41 17.867 1.41 23.87 0.94  
5.900 1.87 11.900 105.41 17.900 1.41 23.90 0.94  
5.933 1.87 11.933 105.41 17.933 1.41 23.93 0.94  
5.967 1.87 11.967 105.41 17.967 1.41 23.97 0.94  
6.000 1.87 12.000 105.29 18.000 1.41 24.00 0.94

Unit Hyd Qpeak (cms)= 0.500

PEAK FLOW (cms)= 0.341 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 51.551  
TOTAL RAINFALL (mm)= 93.699  
RUNOFF COEFFICIENT = 0.550

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0030 )  
1 + 2 = 3

|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
|-------------------|--------------|----------------|----------------|--------------|
| ID1= 1 ( 0301):   | 1.19         | 0.136          | 12.13          | 51.55        |
| + ID2= 2 ( 0302): | 2.75         | 0.341          | 12.10          | 51.55        |
| =====             |              |                |                |              |
| ID = 3 ( 0030):   | 3.94         | 0.476          | 12.10          | 51.55        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB  
NASHYD ( 0303 )  
ID= 1 DT= 2.0 min

Area (ha)= 1.14  
Ia (mm)= 5.60  
U.H. Tp(hrs)= 0.20  
Curve Number (CN)= 83.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.033       | 0.94          | 6.033       | 1.87          | 12.033      | 18.74         | 18.03       | 1.41          |
| 0.067       | 0.94          | 6.067       | 1.87          | 12.067      | 18.74         | 18.07       | 1.41          |
| 0.100       | 0.94          | 6.100       | 1.87          | 12.100      | 18.74         | 18.10       | 1.41          |
| 0.133       | 0.94          | 6.133       | 1.87          | 12.133      | 18.74         | 18.13       | 1.41          |
| 0.167       | 0.94          | 6.167       | 1.87          | 12.167      | 18.74         | 18.17       | 1.41          |
| 0.200       | 0.94          | 6.200       | 1.87          | 12.200      | 18.73         | 18.20       | 1.41          |
| 0.233       | 0.94          | 6.233       | 1.87          | 12.233      | 11.71         | 18.23       | 1.41          |
| 0.267       | 0.94          | 6.267       | 1.87          | 12.267      | 11.71         | 18.27       | 1.41          |
| 0.300       | 0.94          | 6.300       | 1.87          | 12.300      | 11.71         | 18.30       | 1.41          |
| 0.333       | 0.94          | 6.333       | 1.87          | 12.333      | 11.71         | 18.33       | 1.41          |
| 0.367       | 0.94          | 6.367       | 1.87          | 12.367      | 11.71         | 18.37       | 1.41          |
| 0.400       | 0.94          | 6.400       | 1.87          | 12.400      | 11.71         | 18.40       | 1.41          |
| 0.433       | 0.94          | 6.433       | 1.87          | 12.433      | 8.43          | 18.43       | 1.87          |
| 0.467       | 0.94          | 6.467       | 1.87          | 12.467      | 8.43          | 18.47       | 1.87          |
| 0.500       | 0.94          | 6.500       | 1.87          | 12.500      | 8.43          | 18.50       | 1.87          |
| 0.533       | 0.94          | 6.533       | 1.87          | 12.533      | 8.43          | 18.53       | 1.87          |
| 0.567       | 0.94          | 6.567       | 1.87          | 12.567      | 8.43          | 18.57       | 1.87          |
| 0.600       | 0.94          | 6.600       | 1.87          | 12.600      | 8.43          | 18.60       | 1.87          |
| 0.633       | 0.94          | 6.633       | 1.87          | 12.633      | 7.96          | 18.63       | 1.41          |
| 0.667       | 0.94          | 6.667       | 1.87          | 12.667      | 7.96          | 18.67       | 1.41          |
| 0.700       | 0.94          | 6.700       | 1.87          | 12.700      | 7.96          | 18.70       | 1.41          |
| 0.733       | 0.94          | 6.733       | 1.87          | 12.733      | 7.96          | 18.73       | 1.41          |
| 0.767       | 0.94          | 6.767       | 1.87          | 12.767      | 7.96          | 18.77       | 1.41          |
| 0.800       | 0.94          | 6.800       | 1.87          | 12.800      | 7.96          | 18.80       | 1.41          |
| 0.833       | 0.94          | 6.833       | 1.87          | 12.833      | 5.62          | 18.83       | 1.41          |
| 0.867       | 0.94          | 6.867       | 1.87          | 12.867      | 5.62          | 18.87       | 1.41          |
| 0.900       | 0.94          | 6.900       | 1.87          | 12.900      | 5.62          | 18.90       | 1.41          |
| 0.933       | 0.94          | 6.933       | 1.87          | 12.933      | 5.62          | 18.93       | 1.41          |
| 0.967       | 0.94          | 6.967       | 1.87          | 12.967      | 5.62          | 18.97       | 1.41          |
| 1.000       | 0.94          | 7.000       | 1.87          | 13.000      | 5.62          | 19.00       | 1.41          |
| 1.033       | 0.94          | 7.033       | 1.87          | 13.033      | 4.68          | 19.03       | 1.87          |
| 1.067       | 0.94          | 7.067       | 1.87          | 13.067      | 4.68          | 19.07       | 1.87          |
| 1.100       | 0.94          | 7.100       | 1.87          | 13.100      | 4.68          | 19.10       | 1.87          |
| 1.133       | 0.94          | 7.133       | 1.87          | 13.133      | 4.68          | 19.13       | 1.87          |
| 1.167       | 0.94          | 7.167       | 1.87          | 13.167      | 4.68          | 19.17       | 1.87          |
| 1.200       | 0.94          | 7.200       | 1.87          | 13.200      | 4.69          | 19.20       | 1.87          |
| 1.233       | 0.94          | 7.233       | 1.87          | 13.233      | 4.68          | 19.23       | 1.41          |
| 1.267       | 0.94          | 7.267       | 1.87          | 13.267      | 4.68          | 19.27       | 1.41          |
| 1.300       | 0.94          | 7.300       | 1.87          | 13.300      | 4.68          | 19.30       | 1.41          |
| 1.333       | 0.94          | 7.333       | 1.87          | 13.333      | 4.68          | 19.33       | 1.41          |
| 1.367       | 0.94          | 7.367       | 1.87          | 13.367      | 4.68          | 19.37       | 1.41          |
| 1.400       | 0.94          | 7.400       | 1.87          | 13.400      | 4.69          | 19.40       | 1.41          |
| 1.433       | 0.94          | 7.433       | 1.87          | 13.433      | 4.68          | 19.43       | 1.87          |
| 1.467       | 0.94          | 7.467       | 1.87          | 13.467      | 4.68          | 19.47       | 1.87          |
| 1.500       | 0.94          | 7.500       | 1.87          | 13.500      | 4.68          | 19.50       | 1.87          |
| 1.533       | 0.94          | 7.533       | 1.87          | 13.533      | 4.68          | 19.53       | 1.87          |
| 1.567       | 0.94          | 7.567       | 1.87          | 13.567      | 4.68          | 19.57       | 1.87          |
| 1.600       | 0.94          | 7.600       | 1.87          | 13.600      | 4.69          | 19.60       | 1.87          |
| 1.633       | 0.94          | 7.633       | 1.87          | 13.633      | 4.68          | 19.63       | 1.41          |
| 1.667       | 0.94          | 7.667       | 1.87          | 13.667      | 4.68          | 19.67       | 1.41          |
| 1.700       | 0.94          | 7.700       | 1.87          | 13.700      | 4.68          | 19.70       | 1.41          |
| 1.733       | 0.94          | 7.733       | 1.87          | 13.733      | 4.68          | 19.73       | 1.41          |
| 1.767       | 0.94          | 7.767       | 1.87          | 13.767      | 4.68          | 19.77       | 1.41          |
| 1.800       | 0.94          | 7.800       | 1.87          | 13.800      | 4.69          | 19.80       | 1.41          |
| 1.833       | 0.94          | 7.833       | 1.87          | 13.833      | 4.69          | 19.83       | 1.87          |
| 1.867       | 0.94          | 7.867       | 1.87          | 13.867      | 4.69          | 19.87       | 1.87          |
| 1.900       | 0.94          | 7.900       | 1.87          | 13.900      | 4.69          | 19.90       | 1.87          |
| 1.933       | 0.94          | 7.933       | 1.87          | 13.933      | 4.69          | 19.93       | 1.87          |
| 1.967       | 0.94          | 7.967       | 1.87          | 13.967      | 4.69          | 19.97       | 1.87          |
| 2.000       | 0.94          | 8.000       | 1.87          | 14.000      | 4.68          | 20.00       | 1.87          |
| 2.033       | 0.94          | 8.033       | 2.81          | 14.033      | 2.81          | 20.03       | 1.41          |

2.067 0.94 8.067 2.81 14.067 2.81 20.07 1.41  
2.100 0.94 8.100 2.81 14.100 2.81 20.10 1.41  
2.133 0.94 8.133 2.81 14.133 2.81 20.13 1.41  
2.167 0.94 8.167 2.81 14.167 2.81 20.17 1.41  
2.200 0.94 8.200 2.81 14.200 2.81 20.20 1.41  
2.233 0.94 8.233 2.81 14.233 2.81 20.23 1.41  
2.267 0.94 8.267 2.81 14.267 2.81 20.27 1.41  
2.300 0.94 8.300 2.81 14.300 2.81 20.30 1.41  
2.333 0.94 8.333 2.81 14.333 2.81 20.33 1.41  
2.367 0.94 8.367 2.81 14.367 2.81 20.37 1.41  
2.400 0.94 8.400 2.81 14.400 2.81 20.40 1.41  
2.433 0.94 8.433 2.81 14.433 2.81 20.43 0.94  
2.467 0.94 8.467 2.81 14.467 2.81 20.47 0.94  
2.500 0.94 8.500 2.81 14.500 2.81 20.50 0.94  
2.533 0.94 8.533 2.81 14.533 2.81 20.53 0.94  
2.567 0.94 8.567 2.81 14.567 2.81 20.57 0.94  
2.600 0.94 8.600 2.81 14.600 2.81 20.60 0.94  
2.633 0.94 8.633 2.81 14.633 2.81 20.63 1.41  
2.667 0.94 8.667 2.81 14.667 2.81 20.67 1.41  
2.700 0.94 8.700 2.81 14.700 2.81 20.70 1.41  
2.733 0.94 8.733 2.81 14.733 2.81 20.73 1.41  
2.767 0.94 8.767 2.81 14.767 2.81 20.77 1.41  
2.800 0.94 8.800 2.81 14.800 2.81 20.80 1.41  
2.833 0.94 8.833 2.81 14.833 2.81 20.83 1.41  
2.867 0.94 8.867 2.81 14.867 2.81 20.87 1.41  
2.900 0.94 8.900 2.81 14.900 2.81 20.90 1.41  
2.933 0.94 8.933 2.81 14.933 2.81 20.93 1.41  
2.967 0.94 8.967 2.81 14.967 2.81 20.97 1.41  
3.000 0.94 9.000 2.81 15.000 2.81 21.00 1.41  
3.033 0.94 9.033 2.81 15.033 2.34 21.03 0.94  
3.067 0.94 9.067 2.81 15.067 2.34 21.07 0.94  
3.100 0.94 9.100 2.81 15.100 2.34 21.10 0.94  
3.133 0.94 9.133 2.81 15.133 2.34 21.13 0.94  
3.167 0.94 9.167 2.81 15.167 2.34 21.17 0.94  
3.200 0.94 9.200 2.81 15.200 2.34 21.20 0.94  
3.233 0.94 9.233 2.81 15.233 2.34 21.23 1.41  
3.267 0.94 9.267 2.81 15.267 2.34 21.27 1.41  
3.300 0.94 9.300 2.81 15.300 2.34 21.30 1.41  
3.333 0.94 9.333 2.81 15.333 2.34 21.33 1.41  
3.367 0.94 9.367 2.81 15.367 2.34 21.37 1.41  
3.400 0.94 9.400 2.81 15.400 2.34 21.40 1.41  
3.433 0.94 9.433 2.81 15.433 2.34 21.43 0.94  
3.467 0.94 9.467 2.81 15.467 2.34 21.47 0.94  
3.500 0.94 9.500 2.81 15.500 2.34 21.50 0.94  
3.533 0.94 9.533 2.81 15.533 2.34 21.53 0.94  
3.567 0.94 9.567 2.81 15.567 2.34 21.57 0.94  
3.600 0.94 9.600 2.81 15.600 2.34 21.60 0.94  
3.633 0.94 9.633 2.81 15.633 2.34 21.63 1.41  
3.667 0.94 9.667 2.81 15.667 2.34 21.67 1.41  
3.700 0.94 9.700 2.81 15.700 2.34 21.70 1.41  
3.733 0.94 9.733 2.81 15.733 2.34 21.73 1.41  
3.767 0.94 9.767 2.81 15.767 2.34 21.77 1.41  
3.800 0.94 9.800 2.81 15.800 2.34 21.80 1.41  
3.833 0.94 9.833 2.81 15.833 2.34 21.83 0.94  
3.867 0.94 9.867 2.81 15.867 2.34 21.87 0.94  
3.900 0.94 9.900 2.81 15.900 2.34 21.90 0.94  
3.933 0.94 9.933 2.81 15.933 2.34 21.93 0.94  
3.967 0.94 9.967 2.81 15.967 2.34 21.97 0.94  
4.000 0.94 10.000 2.81 16.000 2.34 22.00 0.94  
4.033 1.87 10.033 5.15 16.033 2.34 22.03 0.94  
4.067 1.87 10.067 5.15 16.067 2.34 22.07 0.94  
4.100 1.87 10.100 5.15 16.100 2.34 22.10 0.94  
4.133 1.87 10.133 5.15 16.133 2.34 22.13 0.94  
4.167 1.87 10.167 5.15 16.167 2.34 22.17 0.94  
4.200 1.87 10.200 5.15 16.200 2.34 22.20 0.94  
4.233 1.87 10.233 5.15 16.233 2.34 22.23 1.41  
4.267 1.87 10.267 5.15 16.267 2.34 22.27 1.41  
4.300 1.87 10.300 5.15 16.300 2.34 22.30 1.41  
4.333 1.87 10.333 5.15 16.333 2.34 22.33 1.41  
4.367 1.87 10.367 5.15 16.367 2.34 22.37 1.41  
4.400 1.87 10.400 5.15 16.400 2.34 22.40 1.41  
4.433 1.87 10.433 5.15 16.433 2.34 22.43 0.94  
4.467 1.87 10.467 5.15 16.467 2.34 22.47 0.94  
4.500 1.87 10.500 5.15 16.500 2.34 22.50 0.94  
4.533 1.87 10.533 5.15 16.533 2.34 22.53 0.94  
4.567 1.87 10.567 5.15 16.567 2.34 22.57 0.94  
4.600 1.87 10.600 5.15 16.600 2.34 22.60 0.94  
4.633 1.87 10.633 5.15 16.633 2.34 22.63 1.41  
4.667 1.87 10.667 5.15 16.667 2.34 22.67 1.41  
4.700 1.87 10.700 5.15 16.700 2.34 22.70 1.41  
4.733 1.87 10.733 5.15 16.733 2.34 22.73 1.41  
4.767 1.87 10.767 5.15 16.767 2.34 22.77 1.41  
4.800 1.87 10.800 5.15 16.800 2.34 22.80 1.41  
4.833 1.87 10.833 5.15 16.833 1.41 22.83 0.94  
4.867 1.87 10.867 5.15 16.867 1.41 22.87 0.94  
4.900 1.87 10.900 5.15 16.900 1.41 22.90 0.94  
4.933 1.87 10.933 5.15 16.933 1.41 22.93 0.94  
4.967 1.87 10.967 5.15 16.967 1.41 22.97 0.94  
5.000 1.87 11.000 5.16 17.000 1.41 23.00 0.94  
5.033 1.87 11.033 7.03 17.033 1.41 23.03 0.94  
5.067 1.87 11.067 7.03 17.067 1.41 23.07 0.94  
5.100 1.87 11.100 7.03 17.100 1.41 23.10 0.94  
5.133 1.87 11.133 7.03 17.133 1.41 23.13 0.94  
5.167 1.87 11.167 7.03 17.167 1.41 23.17 0.94  
5.200 1.87 11.200 7.03 17.200 1.41 23.20 0.94  
5.233 1.87 11.233 10.31 17.233 1.87 23.23 0.94  
5.267 1.87 11.267 10.31 17.267 1.87 23.27 0.94  
5.300 1.87 11.300 10.31 17.300 1.87 23.30 0.94  
5.333 1.87 11.333 10.31 17.333 1.87 23.33 0.94  
5.367 1.87 11.367 10.31 17.367 1.87 23.37 0.94  
5.400 1.87 11.400 10.32 17.400 1.87 23.40 0.94  
5.433 1.87 11.433 24.83 17.433 1.41 23.43 1.41  
5.467 1.87 11.467 24.83 17.467 1.41 23.47 1.41  
5.500 1.87 11.500 24.83 17.500 1.41 23.50 1.41  
5.533 1.87 11.533 24.83 17.533 1.41 23.53 1.41  
5.567 1.87 11.567 24.83 17.567 1.41 23.57 1.41  
5.600 1.87 11.600 24.86 17.600 1.41 23.60 1.41  
5.633 1.87 11.633 51.53 17.633

(1) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |      |       |       |       |
|-------------------|------|-------|-------|-------|
| ADD HYD ( 0031)   | AREA | OPEAK | TPEAK | R.V.  |
| 1 + 2 = 3         | (ha) | (cms) | (hrs) | (mm)  |
| ID1= 1 ( 0030):   | 3.94 | 0.476 | 12.10 | 51.55 |
| + ID2= 2 ( 0303): | 1.14 | 0.156 | 12.10 | 55.39 |
| =====             |      |       |       |       |
| ID = 3 ( 0031):   | 5.08 | 0.632 | 12.10 | 52.41 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                        |         |                 |         |       |  |
|------------------------|---------|-----------------|---------|-------|--|
| RESERVOIR( 0201)       |         | OVERFLOW IS OFF |         |       |  |
| IN= 2--> OUT= 1        |         |                 |         |       |  |
| DT= 2.0 min            |         |                 |         |       |  |
| -----                  |         |                 |         |       |  |
| OUTFLOW                | STORAGE | OUTFLOW         | STORAGE |       |  |
| (cms)                  | (ha.m.) | (cms)           | (ha.m.) |       |  |
| 0.0000                 | 0.0000  | 0.0840          | 0.3591  |       |  |
| 0.0050                 | 0.0623  | 0.0920          | 0.4212  |       |  |
| 0.0470                 | 0.1654  | 0.5950          | 0.4851  |       |  |
| 0.0680                 | 0.2596  | 2.6870          | 0.6182  |       |  |
| -----                  |         |                 |         |       |  |
|                        | AREA    | OPEAK           | TPEAK   | R.V.  |  |
|                        | (ha)    | (cms)           | (hrs)   | (mm)  |  |
| INFLOW : ID= 2 ( 0031) | 5.080   | 0.632           | 12.10   | 52.41 |  |
| OUTFLOW: ID= 1 ( 0201) | 5.080   | 0.046           | 14.20   | 47.51 |  |

PEAK FLOW REDUCTION [Qout/Qin](%)= 7.25  
TIME SHIFT OF PEAK FLOW (min)=126.00  
MAXIMUM STORAGE USED (ha.m.)= 0.1625

|                   |               |       |      |                      |      |
|-------------------|---------------|-------|------|----------------------|------|
| CALIB             | Area          | (ha)= | 0.53 | Curve Number (CN)=   | 71.0 |
| NASHYD ( 0502)    | Ia            | (mm)= | 8.00 | # of Linear Res.(N)= | 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= |       | 0.22 |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |      |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  | TIME | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.033                              | 0.94  | 6.033 | 1.87  | 12.033 | 18.74 | 18.03 | 1.41  |      |       |
| 0.067                              | 0.94  | 6.067 | 1.87  | 12.067 | 18.74 | 18.07 | 1.41  |      |       |
| 0.100                              | 0.94  | 6.100 | 1.87  | 12.100 | 18.74 | 18.10 | 1.41  |      |       |
| 0.133                              | 0.94  | 6.133 | 1.87  | 12.133 | 18.74 | 18.13 | 1.41  |      |       |
| 0.167                              | 0.94  | 6.167 | 1.87  | 12.167 | 18.74 | 18.17 | 1.41  |      |       |
| 0.200                              | 0.94  | 6.200 | 1.87  | 12.200 | 18.73 | 18.20 | 1.41  |      |       |
| 0.233                              | 0.94  | 6.233 | 1.87  | 12.233 | 11.71 | 18.23 | 1.41  |      |       |
| 0.267                              | 0.94  | 6.267 | 1.87  | 12.267 | 11.71 | 18.27 | 1.41  |      |       |
| 0.300                              | 0.94  | 6.300 | 1.87  | 12.300 | 11.71 | 18.30 | 1.41  |      |       |
| 0.333                              | 0.94  | 6.333 | 1.87  | 12.333 | 11.71 | 18.33 | 1.41  |      |       |
| 0.367                              | 0.94  | 6.367 | 1.87  | 12.367 | 11.71 | 18.37 | 1.41  |      |       |
| 0.400                              | 0.94  | 6.400 | 1.87  | 12.400 | 11.71 | 18.40 | 1.41  |      |       |
| 0.433                              | 0.94  | 6.433 | 1.87  | 12.433 | 8.43  | 18.43 | 1.87  |      |       |
| 0.467                              | 0.94  | 6.467 | 1.87  | 12.467 | 8.43  | 18.47 | 1.87  |      |       |
| 0.500                              | 0.94  | 6.500 | 1.87  | 12.500 | 8.43  | 18.50 | 1.87  |      |       |
| 0.533                              | 0.94  | 6.533 | 1.87  | 12.533 | 8.43  | 18.53 | 1.87  |      |       |
| 0.567                              | 0.94  | 6.567 | 1.87  | 12.567 | 8.43  | 18.57 | 1.87  |      |       |
| 0.600                              | 0.94  | 6.600 | 1.87  | 12.600 | 8.43  | 18.60 | 1.87  |      |       |
| 0.633                              | 0.94  | 6.633 | 1.87  | 12.633 | 7.96  | 18.63 | 1.41  |      |       |
| 0.667                              | 0.94  | 6.667 | 1.87  | 12.667 | 7.96  | 18.67 | 1.41  |      |       |
| 0.700                              | 0.94  | 6.700 | 1.87  | 12.700 | 7.96  | 18.70 | 1.41  |      |       |
| 0.733                              | 0.94  | 6.733 | 1.87  | 12.733 | 7.96  | 18.73 | 1.41  |      |       |
| 0.767                              | 0.94  | 6.767 | 1.87  | 12.767 | 7.96  | 18.77 | 1.41  |      |       |
| 0.800                              | 0.94  | 6.800 | 1.87  | 12.800 | 7.96  | 18.80 | 1.41  |      |       |
| 0.833                              | 0.94  | 6.833 | 1.87  | 12.833 | 5.62  | 18.83 | 1.41  |      |       |
| 0.867                              | 0.94  | 6.867 | 1.87  | 12.867 | 5.62  | 18.87 | 1.41  |      |       |
| 0.900                              | 0.94  | 6.900 | 1.87  | 12.900 | 5.62  | 18.90 | 1.41  |      |       |
| 0.933                              | 0.94  | 6.933 | 1.87  | 12.933 | 5.62  | 18.93 | 1.41  |      |       |
| 0.967                              | 0.94  | 6.967 | 1.87  | 12.967 | 5.62  | 18.97 | 1.41  |      |       |
| 1.000                              | 0.94  | 7.000 | 1.87  | 13.000 | 5.62  | 19.00 | 1.41  |      |       |
| 1.033                              | 0.94  | 7.033 | 1.87  | 13.033 | 4.68  | 19.03 | 1.87  |      |       |
| 1.067                              | 0.94  | 7.067 | 1.87  | 13.067 | 4.68  | 19.07 | 1.87  |      |       |
| 1.100                              | 0.94  | 7.100 | 1.87  | 13.100 | 4.68  | 19.10 | 1.87  |      |       |
| 1.133                              | 0.94  | 7.133 | 1.87  | 13.133 | 4.68  | 19.13 | 1.87  |      |       |
| 1.167                              | 0.94  | 7.167 | 1.87  | 13.167 | 4.68  | 19.17 | 1.87  |      |       |
| 1.200                              | 0.94  | 7.200 | 1.87  | 13.200 | 4.69  | 19.20 | 1.87  |      |       |
| 1.233                              | 0.94  | 7.233 | 1.87  | 13.233 | 4.68  | 19.23 | 1.41  |      |       |
| 1.267                              | 0.94  | 7.267 | 1.87  | 13.267 | 4.68  | 19.27 | 1.41  |      |       |
| 1.300                              | 0.94  | 7.300 | 1.87  | 13.300 | 4.68  | 19.30 | 1.41  |      |       |
| 1.333                              | 0.94  | 7.333 | 1.87  | 13.333 | 4.68  | 19.33 | 1.41  |      |       |
| 1.367                              | 0.94  | 7.367 | 1.87  | 13.367 | 4.68  | 19.37 | 1.41  |      |       |
| 1.400                              | 0.94  | 7.400 | 1.87  | 13.400 | 4.69  | 19.40 | 1.41  |      |       |
| 1.433                              | 0.94  | 7.433 | 1.87  | 13.433 | 4.68  | 19.43 | 1.87  |      |       |
| 1.467                              | 0.94  | 7.467 | 1.87  | 13.467 | 4.68  | 19.47 | 1.87  |      |       |
| 1.500                              | 0.94  | 7.500 | 1.87  | 13.500 | 4.68  | 19.50 | 1.87  |      |       |
| 1.533                              | 0.94  | 7.533 | 1.87  | 13.533 | 4.68  | 19.53 | 1.87  |      |       |
| 1.567                              | 0.94  | 7.567 | 1.87  | 13.567 | 4.68  | 19.57 | 1.87  |      |       |
| 1.600                              | 0.94  | 7.600 | 1.87  | 13.600 | 4.69  | 19.60 | 1.87  |      |       |
| 1.633                              | 0.94  | 7.633 | 1.87  | 13.633 | 4.68  | 19.63 | 1.41  |      |       |
| 1.667                              | 0.94  | 7.667 | 1.87  | 13.667 | 4.68  | 19.67 | 1.41  |      |       |
| 1.700                              | 0.94  | 7.700 | 1.87  | 13.700 | 4.68  | 19.70 | 1.41  |      |       |
| 1.733                              | 0.94  | 7.733 | 1.87  | 13.733 | 4.68  | 19.73 | 1.41  |      |       |
| 1.767                              | 0.94  | 7.767 | 1.87  | 13.767 | 4.68  | 19.77 | 1.41  |      |       |
| 1.800                              | 0.94  | 7.800 | 1.87  | 13.800 | 4.69  | 19.80 | 1.41  |      |       |
| 1.833                              | 0.94  | 7.833 | 1.87  | 13.833 | 4.69  | 19.83 | 1.87  |      |       |
| 1.867                              | 0.94  | 7.867 | 1.87  | 13.867 | 4.69  | 19.87 | 1.87  |      |       |
| 1.900                              | 0.94  | 7.900 | 1.87  | 13.900 | 4.69  | 19.90 | 1.87  |      |       |
| 1.933                              | 0.94  | 7.933 | 1.87  | 13.933 | 4.69  | 19.93 | 1.87  |      |       |
| 1.967                              | 0.94  | 7.967 | 1.87  | 13.967 | 4.69  | 19.97 | 1.87  |      |       |
| 2.000                              | 0.94  | 8.000 | 1.87  | 14.000 | 4.68  | 20.00 | 1.87  |      |       |
| 2.033                              | 0.94  | 8.033 | 2.81  | 14.033 | 2.81  | 20.03 | 1.41  |      |       |
| 2.067                              | 0.94  | 8.067 | 2.81  | 14.067 | 2.81  | 20.07 | 1.41  |      |       |
| 2.100                              | 0.94  | 8.100 | 2.81  | 14.100 | 2.81  | 20.10 | 1.41  |      |       |
| 2.133                              | 0.94  | 8.133 | 2.81  | 14.133 | 2.81  | 20.13 | 1.41  |      |       |
| 2.167                              | 0.94  | 8.167 | 2.81  | 14.167 | 2.81  | 20.17 | 1.41  |      |       |
| 2.200                              | 0.94  | 8.200 | 2.81  | 14.200 | 2.81  | 20.20 | 1.41  |      |       |
| 2.233                              | 0.94  | 8.233 | 2.81  | 14.233 | 2.81  | 20.23 | 1.41  |      |       |
| 2.267                              | 0.94  | 8.267 | 2.81  | 14.267 | 2.81  | 20.27 | 1.41  |      |       |
| 2.300                              | 0.94  | 8.300 | 2.81  | 14.300 | 2.81  | 20.30 | 1.41  |      |       |
| 2.333                              | 0.94  | 8.333 | 2.81  | 14.333 | 2.81  | 20.33 | 1.41  |      |       |
| 2.367                              | 0.94  | 8.367 | 2.81  | 14.367 | 2.81  | 20.37 | 1.41  |      |       |
| 2.400                              | 0.94  | 8.400 | 2.81  | 14.400 | 2.81  | 20.40 | 1.41  |      |       |
| 2.433                              | 0.94  | 8.433 | 2.81  | 14.433 | 2.81  | 20.43 | 0.94  |      |       |
| 2.467                              | 0.94  | 8.467 | 2.81  | 14.467 | 2.81  | 20.47 | 0.94  |      |       |
| 2.500                              | 0.94  | 8.500 | 2.81  | 14.500 | 2.81  | 20.50 | 0.94  |      |       |
| 2.533                              | 0.94  | 8.533 | 2.81  | 14.533 | 2.81  | 20.53 | 0.94  |      |       |
| 2.567                              | 0.94  | 8.567 | 2.81  | 14.567 | 2.81  | 20.57 | 0.94  |      |       |
| 2.600                              | 0.94  | 8.600 | 2.81  | 14.600 | 2.81  | 20.60 | 0.94  |      |       |
| 2.633                              | 0.94  | 8.633 | 2.81  | 14.633 | 2.81  | 20.63 | 1.41  |      |       |

|       |      |        |      |        |      |       |      |
|-------|------|--------|------|--------|------|-------|------|
| 2.667 | 0.94 | 8.667  | 2.81 | 14.667 | 2.81 | 20.67 | 1.41 |
| 2.700 | 0.94 | 8.700  | 2.81 | 14.700 | 2.81 | 20.70 | 1.41 |
| 2.733 | 0.94 | 8.733  | 2.81 | 14.733 | 2.81 | 20.73 | 1.41 |
| 2.767 | 0.94 | 8.767  | 2.81 | 14.767 | 2.81 | 20.77 | 1.41 |
| 2.800 | 0.94 | 8.800  | 2.81 | 14.800 | 2.81 | 20.80 | 1.41 |
| 2.833 | 0.94 | 8.833  | 2.81 | 14.833 | 2.81 | 20.83 | 1.41 |
| 2.867 | 0.94 | 8.867  | 2.81 | 14.867 | 2.81 | 20.87 | 1.41 |
| 2.900 | 0.94 | 8.900  | 2.81 | 14.900 | 2.81 | 20.90 | 1.41 |
| 2.933 | 0.94 | 8.933  | 2.81 | 14.933 | 2.81 | 20.93 | 1.41 |
| 2.967 | 0.94 | 8.967  | 2.81 | 14.967 | 2.81 | 20.97 | 1.41 |
| 3.000 | 0.94 | 9.000  | 2.81 | 15.000 | 2.81 | 21.00 | 1.41 |
| 3.033 | 0.94 | 9.033  | 2.81 | 15.033 | 2.34 | 21.03 | 0.94 |
| 3.067 | 0.94 | 9.067  | 2.81 | 15.067 | 2.34 | 21.07 | 0.94 |
| 3.100 | 0.94 | 9.100  | 2.81 | 15.100 | 2.34 | 21.10 | 0.94 |
| 3.133 | 0.94 | 9.133  | 2.81 | 15.133 | 2.34 | 21.13 | 0.94 |
| 3.167 | 0.94 | 9.167  | 2.81 | 15.167 | 2.34 | 21.17 | 0.94 |
| 3.200 | 0.94 | 9.200  | 2.81 | 15.200 | 2.34 | 21.20 | 0.94 |
| 3.233 | 0.94 | 9.233  | 2.81 | 15.233 | 2.34 | 21.23 | 1.41 |
| 3.267 | 0.94 | 9.267  | 2.81 | 15.267 | 2.34 | 21.27 | 1.41 |
| 3.300 | 0.94 | 9.300  | 2.81 | 15.300 | 2.34 | 21.30 | 1.41 |
| 3.333 | 0.94 | 9.333  | 2.81 | 15.333 | 2.34 | 21.33 | 1.41 |
| 3.367 | 0.94 | 9.367  | 2.81 | 15.367 | 2.34 | 21.37 | 1.41 |
| 3.400 | 0.94 | 9.400  | 2.81 | 15.400 | 2.34 | 21.40 | 1.41 |
| 3.433 | 0.94 | 9.433  | 2.81 | 15.433 | 2.34 | 21.43 | 0.94 |
| 3.467 | 0.94 | 9.467  | 2.81 | 15.467 | 2.34 | 21.47 | 0.94 |
| 3.500 | 0.94 | 9.500  | 2.81 | 15.500 | 2.34 | 21.50 | 0.94 |
| 3.533 | 0.94 | 9.533  | 2.81 | 15.533 | 2.34 | 21.53 | 0.94 |
| 3.567 | 0.94 | 9.567  | 2.81 | 15.567 | 2.34 | 21.57 | 0.94 |
| 3.600 | 0.94 | 9.600  | 2.81 | 15.600 | 2.34 | 21.60 | 0.94 |
| 3.633 | 0.94 | 9.633  | 2.81 | 15.633 | 2.34 | 21.63 | 1.41 |
| 3.667 | 0.94 | 9.667  | 2.81 | 15.667 | 2.34 | 21.67 | 1.41 |
| 3.700 | 0.94 | 9.700  | 2.81 | 15.700 | 2.34 | 21.70 | 1.41 |
| 3.733 | 0.94 | 9.733  | 2.81 | 15.733 | 2.34 | 21.73 | 1.41 |
| 3.767 | 0.94 | 9.767  | 2.81 | 15.767 | 2.34 | 21.77 | 1.41 |
| 3.800 | 0.94 | 9.800  | 2.81 | 15.800 | 2.34 | 21.80 | 1.41 |
| 3.833 | 0.94 | 9.833  | 2.81 | 15.833 | 2.34 | 21.83 | 0.94 |
| 3.867 | 0.94 | 9.867  | 2.81 | 15.867 | 2.34 | 21.87 | 0.94 |
| 3.900 | 0.94 | 9.900  | 2.81 | 15.900 | 2.34 | 21.90 | 0.94 |
| 3.933 | 0.94 | 9.933  | 2.81 | 15.933 | 2.34 | 21.93 | 0.94 |
| 3.967 | 0.94 | 9.967  | 2.81 | 15.967 | 2.34 | 21.97 | 0.94 |
| 4.000 | 0.94 | 10.000 | 2.81 | 16.000 | 2.34 | 22.00 | 0.94 |
| 4.033 | 1.87 | 10.033 | 5.15 | 16.033 | 2.34 | 22.03 | 0.94 |
| 4.067 | 1.87 | 10.067 | 5.15 | 16.067 | 2.34 | 22.07 | 0.94 |
| 4.100 |      |        |      |        |      |       |      |

|       |      |        |      |        |       |       |      |
|-------|------|--------|------|--------|-------|-------|------|
| 0.100 | 0.94 | 6.100  | 1.87 | 12.100 | 18.74 | 18.10 | 1.41 |
| 0.133 | 0.94 | 6.133  | 1.87 | 12.133 | 18.74 | 18.13 | 1.41 |
| 0.167 | 0.94 | 6.167  | 1.87 | 12.167 | 18.74 | 18.17 | 1.41 |
| 0.200 | 0.94 | 6.200  | 1.87 | 12.200 | 18.73 | 18.20 | 1.41 |
| 0.233 | 0.94 | 6.233  | 1.87 | 12.233 | 11.71 | 18.23 | 1.41 |
| 0.267 | 0.94 | 6.267  | 1.87 | 12.267 | 11.71 | 18.27 | 1.41 |
| 0.300 | 0.94 | 6.300  | 1.87 | 12.300 | 11.71 | 18.30 | 1.41 |
| 0.333 | 0.94 | 6.333  | 1.87 | 12.333 | 11.71 | 18.33 | 1.41 |
| 0.367 | 0.94 | 6.367  | 1.87 | 12.367 | 11.71 | 18.37 | 1.41 |
| 0.400 | 0.94 | 6.400  | 1.87 | 12.400 | 11.71 | 18.40 | 1.41 |
| 0.433 | 0.94 | 6.433  | 1.87 | 12.433 | 8.43  | 18.43 | 1.87 |
| 0.467 | 0.94 | 6.467  | 1.87 | 12.467 | 8.43  | 18.47 | 1.87 |
| 0.500 | 0.94 | 6.500  | 1.87 | 12.500 | 8.43  | 18.50 | 1.87 |
| 0.533 | 0.94 | 6.533  | 1.87 | 12.533 | 8.43  | 18.53 | 1.87 |
| 0.567 | 0.94 | 6.567  | 1.87 | 12.567 | 8.43  | 18.57 | 1.87 |
| 0.600 | 0.94 | 6.600  | 1.87 | 12.600 | 8.43  | 18.60 | 1.87 |
| 0.633 | 0.94 | 6.633  | 1.87 | 12.633 | 7.96  | 18.63 | 1.41 |
| 0.667 | 0.94 | 6.667  | 1.87 | 12.667 | 7.96  | 18.67 | 1.41 |
| 0.700 | 0.94 | 6.700  | 1.87 | 12.700 | 7.96  | 18.70 | 1.41 |
| 0.733 | 0.94 | 6.733  | 1.87 | 12.733 | 7.96  | 18.73 | 1.41 |
| 0.767 | 0.94 | 6.767  | 1.87 | 12.767 | 7.96  | 18.77 | 1.41 |
| 0.800 | 0.94 | 6.800  | 1.87 | 12.800 | 7.96  | 18.80 | 1.41 |
| 0.833 | 0.94 | 6.833  | 1.87 | 12.833 | 5.62  | 18.83 | 1.41 |
| 0.867 | 0.94 | 6.867  | 1.87 | 12.867 | 5.62  | 18.87 | 1.41 |
| 0.900 | 0.94 | 6.900  | 1.87 | 12.900 | 5.62  | 18.90 | 1.41 |
| 0.933 | 0.94 | 6.933  | 1.87 | 12.933 | 5.62  | 18.93 | 1.41 |
| 0.967 | 0.94 | 6.967  | 1.87 | 12.967 | 5.62  | 18.96 | 1.41 |
| 1.000 | 0.94 | 7.000  | 1.87 | 13.000 | 5.62  | 19.00 | 1.41 |
| 1.033 | 0.94 | 7.033  | 1.87 | 13.033 | 4.68  | 19.03 | 1.87 |
| 1.067 | 0.94 | 7.067  | 1.87 | 13.067 | 4.68  | 19.07 | 1.87 |
| 1.100 | 0.94 | 7.100  | 1.87 | 13.100 | 4.68  | 19.10 | 1.87 |
| 1.133 | 0.94 | 7.133  | 1.87 | 13.133 | 4.68  | 19.13 | 1.87 |
| 1.167 | 0.94 | 7.167  | 1.87 | 13.167 | 4.68  | 19.17 | 1.87 |
| 1.200 | 0.94 | 7.200  | 1.87 | 13.200 | 4.69  | 19.20 | 1.87 |
| 1.233 | 0.94 | 7.233  | 1.87 | 13.233 | 4.68  | 19.23 | 1.41 |
| 1.267 | 0.94 | 7.267  | 1.87 | 13.267 | 4.68  | 19.27 | 1.41 |
| 1.300 | 0.94 | 7.300  | 1.87 | 13.300 | 4.68  | 19.30 | 1.41 |
| 1.333 | 0.94 | 7.333  | 1.87 | 13.333 | 4.68  | 19.33 | 1.41 |
| 1.367 | 0.94 | 7.367  | 1.87 | 13.367 | 4.68  | 19.37 | 1.41 |
| 1.400 | 0.94 | 7.400  | 1.87 | 13.400 | 4.69  | 19.40 | 1.41 |
| 1.433 | 0.94 | 7.433  | 1.87 | 13.433 | 4.68  | 19.43 | 1.87 |
| 1.467 | 0.94 | 7.467  | 1.87 | 13.467 | 4.68  | 19.47 | 1.87 |
| 1.500 | 0.94 | 7.500  | 1.87 | 13.500 | 4.68  | 19.50 | 1.87 |
| 1.533 | 0.94 | 7.533  | 1.87 | 13.533 | 4.68  | 19.53 | 1.87 |
| 1.567 | 0.94 | 7.567  | 1.87 | 13.567 | 4.68  | 19.57 | 1.87 |
| 1.600 | 0.94 | 7.600  | 1.87 | 13.600 | 4.69  | 19.60 | 1.87 |
| 1.633 | 0.94 | 7.633  | 1.87 | 13.633 | 4.68  | 19.63 | 1.41 |
| 1.667 | 0.94 | 7.667  | 1.87 | 13.667 | 4.68  | 19.67 | 1.41 |
| 1.700 | 0.94 | 7.700  | 1.87 | 13.700 | 4.68  | 19.70 | 1.41 |
| 1.733 | 0.94 | 7.733  | 1.87 | 13.733 | 4.68  | 19.73 | 1.41 |
| 1.767 | 0.94 | 7.767  | 1.87 | 13.767 | 4.68  | 19.77 | 1.41 |
| 1.800 | 0.94 | 7.800  | 1.87 | 13.800 | 4.69  | 19.80 | 1.41 |
| 1.833 | 0.94 | 7.833  | 1.87 | 13.833 | 4.69  | 19.83 | 1.87 |
| 1.867 | 0.94 | 7.867  | 1.87 | 13.867 | 4.69  | 19.87 | 1.87 |
| 1.900 | 0.94 | 7.900  | 1.87 | 13.900 | 4.69  | 19.90 | 1.87 |
| 1.933 | 0.94 | 7.933  | 1.87 | 13.933 | 4.69  | 19.93 | 1.87 |
| 1.967 | 0.94 | 7.967  | 1.87 | 13.967 | 4.69  | 19.97 | 1.87 |
| 2.000 | 0.94 | 8.000  | 1.87 | 14.000 | 4.68  | 20.00 | 1.87 |
| 2.033 | 0.94 | 8.033  | 2.81 | 14.033 | 2.81  | 20.03 | 1.41 |
| 2.067 | 0.94 | 8.067  | 2.81 | 14.067 | 2.81  | 20.07 | 1.41 |
| 2.100 | 0.94 | 8.100  | 2.81 | 14.100 | 2.81  | 20.10 | 1.41 |
| 2.133 | 0.94 | 8.133  | 2.81 | 14.133 | 2.81  | 20.13 | 1.41 |
| 2.167 | 0.94 | 8.167  | 2.81 | 14.167 | 2.81  | 20.17 | 1.41 |
| 2.200 | 0.94 | 8.200  | 2.81 | 14.200 | 2.81  | 20.20 | 1.41 |
| 2.233 | 0.94 | 8.233  | 2.81 | 14.233 | 2.81  | 20.23 | 1.41 |
| 2.267 | 0.94 | 8.267  | 2.81 | 14.267 | 2.81  | 20.27 | 1.41 |
| 2.300 | 0.94 | 8.300  | 2.81 | 14.300 | 2.81  | 20.30 | 1.41 |
| 2.333 | 0.94 | 8.333  | 2.81 | 14.333 | 2.81  | 20.33 | 1.41 |
| 2.367 | 0.94 | 8.367  | 2.81 | 14.367 | 2.81  | 20.37 | 1.41 |
| 2.400 | 0.94 | 8.400  | 2.81 | 14.400 | 2.81  | 20.40 | 1.41 |
| 2.433 | 0.94 | 8.433  | 2.81 | 14.433 | 2.81  | 20.43 | 0.94 |
| 2.467 | 0.94 | 8.467  | 2.81 | 14.467 | 2.81  | 20.47 | 0.94 |
| 2.500 | 0.94 | 8.500  | 2.81 | 14.500 | 2.81  | 20.50 | 0.94 |
| 2.533 | 0.94 | 8.533  | 2.81 | 14.533 | 2.81  | 20.53 | 0.94 |
| 2.567 | 0.94 | 8.567  | 2.81 | 14.567 | 2.81  | 20.57 | 0.94 |
| 2.600 | 0.94 | 8.600  | 2.81 | 14.600 | 2.81  | 20.60 | 0.94 |
| 2.633 | 0.94 | 8.633  | 2.81 | 14.633 | 2.81  | 20.63 | 1.41 |
| 2.667 | 0.94 | 8.667  | 2.81 | 14.667 | 2.81  | 20.67 | 1.41 |
| 2.700 | 0.94 | 8.700  | 2.81 | 14.700 | 2.81  | 20.70 | 1.41 |
| 2.733 | 0.94 | 8.733  | 2.81 | 14.733 | 2.81  | 20.73 | 1.41 |
| 2.767 | 0.94 | 8.767  | 2.81 | 14.767 | 2.81  | 20.77 | 1.41 |
| 2.800 | 0.94 | 8.800  | 2.81 | 14.800 | 2.81  | 20.80 | 1.41 |
| 2.833 | 0.94 | 8.833  | 2.81 | 14.833 | 2.81  | 20.83 | 1.41 |
| 2.867 | 0.94 | 8.867  | 2.81 | 14.867 | 2.81  | 20.87 | 1.41 |
| 2.900 | 0.94 | 8.900  | 2.81 | 14.900 | 2.81  | 20.90 | 1.41 |
| 2.933 | 0.94 | 8.933  | 2.81 | 14.933 | 2.81  | 20.93 | 1.41 |
| 2.967 | 0.94 | 8.967  | 2.81 | 14.967 | 2.81  | 20.97 | 1.41 |
| 3.000 | 0.94 | 9.000  | 2.81 | 15.000 | 2.81  | 21.00 | 1.41 |
| 3.033 | 0.94 | 9.033  | 2.81 | 15.033 | 2.34  | 21.03 | 0.94 |
| 3.067 | 0.94 | 9.067  | 2.81 | 15.067 | 2.34  | 21.07 | 0.94 |
| 3.100 | 0.94 | 9.100  | 2.81 | 15.100 | 2.34  | 21.10 | 0.94 |
| 3.133 | 0.94 | 9.133  | 2.81 | 15.133 | 2.34  | 21.13 | 0.94 |
| 3.167 | 0.94 | 9.167  | 2.81 | 15.167 | 2.34  | 21.17 | 0.94 |
| 3.200 | 0.94 | 9.200  | 2.81 | 15.200 | 2.34  | 21.20 | 0.94 |
| 3.233 | 0.94 | 9.233  | 2.81 | 15.233 | 2.34  | 21.23 | 1.41 |
| 3.267 | 0.94 | 9.267  | 2.81 | 15.267 | 2.34  | 21.27 | 1.41 |
| 3.300 | 0.94 | 9.300  | 2.81 | 15.300 | 2.34  | 21.30 | 1.41 |
| 3.333 | 0.94 | 9.333  | 2.81 | 15.333 | 2.34  | 21.33 | 1.41 |
| 3.367 | 0.94 | 9.367  | 2.81 | 15.367 | 2.34  | 21.37 | 1.41 |
| 3.400 | 0.94 | 9.400  | 2.81 | 15.400 | 2.34  | 21.40 | 1.41 |
| 3.433 | 0.94 | 9.433  | 2.81 | 15.433 | 2.34  | 21.43 | 0.94 |
| 3.467 | 0.94 | 9.467  | 2.81 | 15.467 | 2.34  | 21.47 | 0.94 |
| 3.500 | 0.94 | 9.500  | 2.81 | 15.500 | 2.34  | 21.50 | 0.94 |
| 3.533 | 0.94 | 9.533  | 2.81 | 15.533 | 2.34  | 21.53 | 0.94 |
| 3.567 | 0.94 | 9.567  | 2.81 | 15.567 | 2.34  | 21.57 | 0.94 |
| 3.600 | 0.94 | 9.600  | 2.81 | 15.600 | 2.34  | 21.60 | 0.94 |
| 3.633 | 0.94 | 9.633  | 2.81 | 15.633 | 2.34  | 21.63 | 1.41 |
| 3.667 | 0.94 | 9.667  | 2.81 | 15.667 | 2.34  | 21.67 | 1.41 |
| 3.700 | 0.94 | 9.700  | 2.81 | 15.700 | 2.34  | 21.70 | 1.41 |
| 3.733 | 0.94 | 9.733  | 2.81 | 15.733 | 2.34  | 21.73 | 1.41 |
| 3.767 | 0.94 | 9.767  | 2.81 | 15.767 | 2.34  | 21.77 | 1.41 |
| 3.800 | 0.94 | 9.800  | 2.81 | 15.800 | 2.34  | 21.80 | 1.41 |
| 3.833 | 0.94 | 9.833  | 2.81 | 15.833 | 2.34  | 21.83 | 0.94 |
| 3.867 | 0.94 | 9.867  | 2.81 | 15.867 | 2.34  | 21.87 | 0.94 |
| 3.900 | 0.94 | 9.900  | 2.81 | 15.900 | 2.34  | 21.90 | 0.94 |
| 3.933 | 0.94 | 9.933  | 2.81 | 15.933 | 2.34  | 21.93 | 0.94 |
| 3.967 | 0.94 | 9.967  | 2.81 | 15.967 | 2.34  | 21.97 | 0.94 |
| 4.000 | 0.94 | 10.000 | 2.81 | 16.000 | 2.34  | 22.00 | 0.94 |
| 4.033 | 1.87 | 10.033 | 5.15 | 16.033 | 2.34  | 22.03 | 0.94 |
| 4.067 | 1.87 | 10.067 | 5.15 | 16.067 | 2.34  | 22.07 | 0.94 |
| 4.100 | 1.87 | 10.100 | 5.15 | 16.100 | 2.34  | 22.10 | 0.94 |
| 4.133 | 1.87 | 10.133 | 5.15 | 16.133 | 2.34  | 22.13 | 0.94 |
| 4.167 | 1.87 | 10.167 | 5.15 | 16.167 | 2.34  | 22.17 | 0.94 |
| 4.200 | 1.87 | 10.200 | 5.15 | 16.200 | 2.34  | 22.20 | 0.94 |
| 4.233 | 1.87 | 10.233 | 5.15 | 16.233 | 2.34  | 22.23 | 1.41 |
| 4.267 | 1.87 | 10.267 | 5.15 | 16.267 | 2.34  | 22.27 | 1.41 |
| 4.300 | 1.87 | 10.300 | 5.15 | 16.300 | 2.34  | 22.30 | 1.41 |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 4.333 | 1.87 | 10.333 | 5.15   | 16.333 | 2.34 | 22.33 | 1.41 |
| 4.367 | 1.87 | 10.367 | 5.15   | 16.367 | 2.34 | 22.37 | 1.41 |
| 4.400 | 1.87 | 10.400 | 5.15   | 16.400 | 2.34 | 22.40 | 1.41 |
| 4.433 | 1.87 | 10.433 | 5.15   | 16.433 | 2.34 | 22.43 | 0.94 |
| 4.467 | 1.87 | 10.467 | 5.15   | 16.467 | 2.34 | 22.47 | 0.94 |
| 4.500 | 1.87 | 10.500 | 5.15   | 16.500 | 2.34 | 22.50 | 0.94 |
| 4.533 | 1.87 | 10.533 | 5.15   | 16.533 | 2.34 | 22.53 | 0.94 |
| 4.567 | 1.87 | 10.567 | 5.15   | 16.567 | 2.34 | 22.57 | 0.94 |
| 4.600 | 1.87 | 10.600 | 5.15   | 16.600 | 2.34 | 22.60 | 0.94 |
| 4.633 | 1.87 | 10.633 | 5.15   | 16.633 | 2.34 | 22.63 | 1.41 |
| 4.667 | 1.87 | 10.667 | 5.15   | 16.667 | 2.34 | 22.67 | 1.41 |
| 4.700 | 1.87 | 10.700 | 5.15   | 16.700 | 2.34 | 22.70 | 1.41 |
| 4.733 | 1.87 | 10.733 | 5.15   | 16.733 | 2.34 | 22.73 | 1.41 |
| 4.767 | 1.87 | 10.767 | 5.15   | 16.767 | 2.34 | 22.77 | 1.41 |
| 4.800 | 1.87 | 10.800 | 5.15   | 16.800 | 2.34 | 22.80 | 1.41 |
| 4.833 | 1.87 | 10.833 | 5.15   | 16.833 | 1.41 | 22.83 | 0.94 |
| 4.867 | 1.87 | 10.867 | 5.15   | 16.867 | 1.41 | 22.87 | 0.94 |
| 4.900 | 1.87 | 10.900 | 5.15   | 16.900 | 1.41 | 22.90 | 0.94 |
| 4.933 | 1.87 | 10.933 | 5.15   | 16.933 | 1.41 | 22.93 | 0.94 |
| 4.967 | 1.87 | 10.967 | 5.15   | 16.967 | 1.41 | 22.97 | 0.94 |
| 5.000 | 1.87 | 11.000 | 5.16   | 17.000 | 1.41 | 23.00 | 0.94 |
| 5.033 | 1.87 | 11.033 | 7.03   | 17.033 | 1.41 | 23.03 | 0.94 |
| 5.067 | 1.87 | 11.067 | 7.03   | 17.067 | 1.41 | 23.07 | 0.94 |
| 5.100 | 1.87 | 11.100 | 7.03   | 17.100 | 1.41 | 23.10 | 0.94 |
| 5.133 | 1.87 | 11.133 | 7.03   | 17.133 | 1.41 | 23.13 | 0.94 |
| 5.167 | 1.87 | 11.167 | 7.03   | 17.167 | 1.41 | 23.17 | 0.94 |
| 5.200 | 1.87 | 11.200 | 7.03   | 17.200 | 1.41 | 23.20 | 0.94 |
| 5.233 | 1.87 | 11.233 | 7.03   | 17.233 | 1.41 | 23.23 | 0.94 |
| 5.267 | 1.87 | 11.267 | 10.31  | 17.267 | 1.87 | 23.27 | 0.94 |
| 5.300 | 1.87 | 11.300 | 10.31  | 17.300 | 1.87 | 23.30 | 0.94 |
| 5.333 | 1.87 | 11.333 | 10.31  | 17.333 | 1.87 | 23.33 | 0.94 |
| 5.367 | 1.87 | 11.367 | 10.31  | 17.367 | 1.87 | 23.37 | 0.94 |
| 5.400 | 1.87 | 11.400 | 10.32  | 17.400 | 1.87 | 23.40 | 0.94 |
| 5.433 | 1.87 | 11.433 | 24.83  | 17.433 | 1.41 | 23.43 | 1.41 |
| 5.467 | 1.87 | 11.467 | 24.83  | 17.467 | 1.41 | 23.47 | 1.41 |
| 5.500 | 1.87 | 11.500 | 24.83  | 17.500 | 1.41 | 23.50 | 1.41 |
| 5.533 | 1.87 | 11.533 | 24.83  | 17.533 | 1.41 | 23.53 | 1.41 |
| 5.567 | 1.87 | 11.567 | 24.83  | 17.567 | 1.41 | 23.57 | 1.41 |
| 5.600 | 1.87 | 11.600 | 24.86  | 17.600 | 1.41 | 23.60 | 1.41 |
| 5.633 | 1.87 | 11.633 | 51.53  | 17.633 | 1.87 | 23.63 | 0.94 |
| 5.667 | 1.87 | 11.667 | 51.53  | 17.667 | 1.87 | 23.67 | 0.94 |
| 5.700 | 1.87 | 11.700 | 51.53  | 17.700 | 1.87 | 23.70 | 0.94 |
| 5.733 | 1.87 | 11.733 | 51.53  | 17.733 | 1.87 | 23.73 | 0.94 |
| 5.767 | 1.87 | 11.767 | 51.53  | 17.767 | 1.87 | 23.77 | 0.94 |
| 5.800 | 1.87 | 11.800 | 51.61  | 17.800 | 1.87 | 23.80 | 0.94 |
| 5.833 | 1.87 | 11.833 | 105.41 | 17.833 | 1.41 | 23.83 | 0.94 |
| 5.867 | 1.87 | 11.867 | 105.41 | 17.867 | 1.41 | 23.87 | 0.94 |
| 5.900 | 1.87 | 11.900 | 105.41 | 17.900 | 1.41 | 23.90 | 0.94 |
| 5.933 | 1.87 | 11.933 | 105.41 | 17.933 | 1.41 | 23.93 | 0.94 |
| 5.967 | 1.87 | 11.967 | 105.41 | 17.967 | 1.41 | 23.97 | 0.94 |
| 6.000 | 1.87 | 12.000 | 105.29 | 18.000 | 1.41 | 24.00 | 0.94 |

|       |      |        |      |        |      |       |      |
|-------|------|--------|------|--------|------|-------|------|
| 0.967 | 0.94 | 6.967  | 1.87 | 12.967 | 5.62 | 18.97 | 1.41 |
| 1.000 | 0.94 | 7.000  | 1.87 | 13.000 | 5.62 | 19.00 | 1.41 |
| 1.033 | 0.94 | 7.033  | 1.87 | 13.033 | 4.68 | 19.03 | 1.87 |
| 1.067 | 0.94 | 7.067  | 1.87 | 13.067 | 4.68 | 19.07 | 1.87 |
| 1.100 | 0.94 | 7.100  | 1.87 | 13.100 | 4.68 | 19.10 | 1.87 |
| 1.133 | 0.94 | 7.133  | 1.87 | 13.133 | 4.68 | 19.13 | 1.87 |
| 1.167 | 0.94 | 7.167  | 1.87 | 13.167 | 4.68 | 19.17 | 1.87 |
| 1.200 | 0.94 | 7.200  | 1.87 | 13.200 | 2.69 | 19.20 | 1.87 |
| 1.233 | 0.94 | 7.233  | 1.87 | 13.233 | 4.68 | 19.23 | 1.41 |
| 1.267 | 0.94 | 7.267  | 1.87 | 13.267 | 4.68 | 19.27 | 1.41 |
| 1.300 | 0.94 | 7.300  | 1.87 | 13.300 | 4.68 | 19.30 | 1.41 |
| 1.333 | 0.94 | 7.333  | 1.87 | 13.333 | 4.68 | 19.33 | 1.41 |
| 1.367 | 0.94 | 7.367  | 1.87 | 13.367 | 4.68 | 19.37 | 1.41 |
| 1.400 | 0.94 | 7.400  | 1.87 | 13.400 | 4.69 | 19.40 | 1.41 |
| 1.433 | 0.94 | 7.433  | 1.87 | 13.433 | 4.68 | 19.43 | 1.87 |
| 1.467 | 0.94 | 7.467  | 1.87 | 13.467 | 4.68 | 19.47 | 1.87 |
| 1.500 | 0.94 | 7.500  | 1.87 | 13.500 | 4.68 | 19.50 | 1.87 |
| 1.533 | 0.94 | 7.533  | 1.87 | 13.533 | 4.68 | 19.53 | 1.87 |
| 1.567 | 0.94 | 7.567  | 1.87 | 13.567 | 4.68 | 19.57 | 1.87 |
| 1.600 | 0.94 | 7.600  | 1.87 | 13.600 | 4.69 | 19.60 | 1.87 |
| 1.633 | 0.94 | 7.633  | 1.87 | 13.633 | 4.68 | 19.63 | 1.41 |
| 1.667 | 0.94 | 7.667  | 1.87 | 13.667 | 4.68 | 19.67 | 1.41 |
| 1.700 | 0.94 | 7.700  | 1.87 | 13.700 | 4.68 | 19.70 | 1.41 |
| 1.733 | 0.94 | 7.733  | 1.87 | 13.733 | 4.68 | 19.73 | 1.41 |
| 1.767 | 0.94 | 7.767  | 1.87 | 13.767 | 4.68 | 19.77 | 1.41 |
| 1.800 | 0.94 | 7.800  | 1.87 | 13.800 | 4.68 | 19.80 | 1.41 |
| 1.833 | 0.94 | 7.833  | 1.87 | 13.833 | 4.69 | 19.83 | 0.87 |
| 1.867 | 0.94 | 7.867  | 1.87 | 13.867 | 4.69 | 19.87 | 1.87 |
| 1.900 | 0.94 | 7.900  | 1.87 | 13.900 | 4.69 | 19.90 | 1.87 |
| 1.933 | 0.94 | 7.933  | 1.87 | 13.933 | 4.69 | 19.93 | 1.87 |
| 1.967 | 0.94 | 7.967  | 1.87 | 13.967 | 4.69 | 19.97 | 1.87 |
| 2.000 | 0.94 | 8.000  | 1.87 | 14.000 | 4.68 | 20.00 | 1.87 |
| 2.033 | 0.94 | 8.033  | 2.81 | 14.033 | 2.81 | 20.03 | 1.41 |
| 2.067 | 0.94 | 8.067  | 2.81 | 14.067 | 2.81 | 20.07 | 1.41 |
| 2.100 | 0.94 | 8.100  | 2.81 | 14.100 | 2.81 | 20.10 | 1.41 |
| 2.133 | 0.94 | 8.133  | 2.81 | 14.133 | 2.81 | 20.13 | 1.41 |
| 2.167 | 0.94 | 8.167  | 2.81 | 14.167 | 2.81 | 20.17 | 1.41 |
| 2.200 | 0.94 | 8.200  | 2.81 | 14.200 | 2.81 | 20.20 | 1.41 |
| 2.233 | 0.94 | 8.233  | 2.81 | 14.233 | 2.81 | 20.23 | 1.41 |
| 2.267 | 0.94 | 8.267  | 2.81 | 14.267 | 2.81 | 20.27 | 1.41 |
| 2.300 | 0.94 | 8.300  | 2.81 | 14.300 | 2.81 | 20.30 | 1.41 |
| 2.333 | 0.94 | 8.333  | 2.81 | 14.333 | 2.81 | 20.33 | 1.41 |
| 2.367 | 0.94 | 8.367  | 2.81 | 14.367 | 2.81 | 20.37 | 1.41 |
| 2.400 | 0.94 | 8.400  | 2.81 | 14.400 | 2.81 | 20.40 | 1.41 |
| 2.433 | 0.94 | 8.433  | 2.81 | 14.433 | 2.81 | 20.43 | 0.94 |
| 2.467 | 0.94 | 8.467  | 2.81 | 14.467 | 2.81 | 20.47 | 0.94 |
| 2.500 | 0.94 | 8.500  | 2.81 | 14.500 | 2.81 | 20.50 | 0.94 |
| 2.533 | 0.94 | 8.533  | 2.81 | 14.533 | 2.81 | 20.53 | 0.94 |
| 2.567 | 0.94 | 8.567  | 2.81 | 14.567 | 2.81 | 20.57 | 0.94 |
| 2.600 | 0.94 | 8.600  | 2.81 | 14.600 | 2.81 | 20.60 | 0.94 |
| 2.633 | 0.94 | 8.633  | 2.81 | 14.633 | 2.81 | 20.63 | 1.41 |
| 2.667 | 0.94 | 8.667  | 2.81 | 14.667 | 2.81 | 20.67 | 1.41 |
| 2.700 | 0.94 | 8.700  | 2.81 | 14.700 | 2.81 | 20.70 | 1.41 |
| 2.733 | 0.94 | 8.733  | 2.81 | 14.733 | 2.81 | 20.73 | 1.41 |
| 2.767 | 0.94 | 8.767  | 2.81 | 14.767 | 2.81 | 20.77 | 1.41 |
| 2.800 | 0.94 | 8.800  | 2.81 | 14.800 | 2.81 | 20.80 | 1.41 |
| 2.833 | 0.94 | 8.833  | 2.81 | 14.833 | 2.81 | 20.83 | 1.41 |
| 2.867 | 0.94 | 8.867  | 2.81 | 14.867 | 2.81 | 20.87 | 1.41 |
| 2.900 | 0.94 | 8.900  | 2.81 | 14.900 | 2.81 | 20.90 | 1.41 |
| 2.933 | 0.94 | 8.933  | 2.81 | 14.933 | 2.81 | 20.93 | 1.41 |
| 2.967 | 0.94 | 8.967  | 2.81 | 14.967 | 2.81 | 20.97 | 1.41 |
| 3.000 | 0.94 | 9.000  | 2.81 | 15.000 | 2.81 | 21.00 | 1.41 |
| 3.033 | 0.94 | 9.033  | 2.81 | 15.033 | 2.34 | 21.03 | 0.94 |
| 3.067 | 0.94 | 9.067  | 2.81 | 15.067 | 2.34 | 21.07 | 0.94 |
| 3.100 | 0.94 | 9.100  | 2.81 | 15.100 | 2.34 | 21.10 | 0.94 |
| 3.133 | 0.94 | 9.133  | 2.81 | 15.133 | 2.34 | 21.13 | 0.94 |
| 3.167 | 0.94 | 9.167  | 2.81 | 15.167 | 2.34 | 21.17 | 0.94 |
| 3.200 | 0.94 | 9.200  | 2.81 | 15.200 | 2.34 | 21.20 | 0.94 |
| 3.233 | 0.94 | 9.233  | 2.81 | 15.233 | 2.34 | 21.23 | 1.41 |
| 3.267 | 0.94 | 9.267  | 2.81 | 15.267 | 2.34 | 21.27 | 1.41 |
| 3.300 | 0.94 | 9.300  | 2.81 | 15.300 | 2.34 | 21.30 | 1.41 |
| 3.333 | 0.94 | 9.333  | 2.81 | 15.333 | 2.34 | 21.33 | 1.41 |
| 3.367 | 0.94 | 9.367  | 2.81 | 15.367 | 2.34 | 21.37 | 1.41 |
| 3.400 | 0.94 | 9.400  | 2.81 | 15.400 | 2.34 | 21.40 | 1.41 |
| 3.433 | 0.94 | 9.433  | 2.81 | 15.433 | 2.34 | 21.43 | 0.94 |
| 3.467 | 0.94 | 9.467  | 2.81 | 15.467 | 2.34 | 21.47 | 0.94 |
| 3.500 | 0.94 | 9.500  | 2.81 | 15.500 | 2.34 | 21.50 | 0.94 |
| 3.533 | 0.94 | 9.533  | 2.81 | 15.533 | 2.34 | 21.53 | 0.94 |
| 3.567 | 0.94 | 9.567  | 2.81 | 15.567 | 2.34 | 21.57 | 0.94 |
| 3.600 | 0.94 | 9.600  | 2.81 | 15.600 | 2.34 | 21.60 | 0.94 |
| 3.633 | 0.94 | 9.633  | 2.81 | 15.633 | 2.34 | 21.63 | 1.41 |
| 3.667 | 0.94 | 9.667  | 2.81 | 15.667 | 2.34 | 21.67 | 1.41 |
| 3.700 | 0.94 | 9.700  | 2.81 | 15.700 | 2.34 | 21.70 | 1.41 |
| 3.733 | 0.94 | 9.733  | 2.81 | 15.733 | 2.34 | 21.73 | 1.41 |
| 3.767 | 0.94 | 9.767  | 2.81 | 15.767 | 2.34 | 21.77 | 1.41 |
| 3.800 | 0.94 | 9.800  | 2.81 | 15.800 | 2.34 | 21.80 | 1.41 |
| 3.833 | 0.94 | 9.833  | 2.81 | 15.833 | 2.34 | 21.83 | 0.94 |
| 3.867 | 0.94 | 9.867  | 2.81 | 15.867 | 2.34 | 21.87 | 0.94 |
| 3.900 | 0.94 | 9.900  | 2.81 | 15.900 | 2.34 | 21.90 | 0.94 |
| 3.933 | 0.94 | 9.933  | 2.81 | 15.933 | 2.34 | 21.93 | 0.94 |
| 3.967 | 0.94 | 9.967  | 2.81 | 15.967 | 2.34 | 21.97 | 0.94 |
| 4.000 | 0.94 | 10.000 | 2.81 | 16.000 | 2.34 | 22.00 | 0.94 |
| 4.033 | 1.87 | 10.033 | 5.15 | 16.033 | 2.34 | 22.03 | 0.94 |
| 4.067 | 1.87 | 10.067 | 5.15 | 16.067 | 2.34 | 22.07 | 0.94 |
| 4.100 | 1.87 | 10.100 | 5.15 | 16.100 | 2.34 | 22.10 | 0.94 |
| 4.133 | 1.87 | 10.133 | 5.15 | 16.133 | 2.34 | 22.13 | 0.94 |
| 4.167 | 1.87 | 10.167 | 5.15 | 16.167 | 2.34 | 22.17 | 0.94 |
| 4.200 | 1.87 | 10.200 | 5.15 | 16.200 | 2.34 | 22.20 | 0.94 |
| 4.233 | 1.87 | 10.233 | 5.15 | 16.233 | 2.34 | 22.23 | 1.41 |
| 4.267 | 1.87 | 10.267 | 5.15 | 16.267 | 2.34 | 22.27 | 1.41 |
| 4.300 | 1.87 | 10.300 | 5.15 | 16.300 | 2.34 | 22.30 | 1.41 |
| 4.333 | 1.87 | 10.333 | 5.15 | 16.333 | 2.34 | 22.33 | 1.41 |
| 4.367 | 1.87 | 10.367 | 5.15 | 16.367 | 2.34 | 22.37 | 1.41 |
| 4.400 | 1.87 | 10.400 | 5.15 | 16.400 | 2.34 | 22.40 | 1.41 |
| 4.433 | 1.87 | 10.433 | 5.15 | 16.433 | 2.34 | 22.43 | 0.94 |
| 4.467 | 1.87 | 10.467 | 5.15 | 16.467 | 2.34 | 22.47 | 0.94 |
| 4.500 | 1.87 | 10.500 | 5.15 | 16.500 | 2.34 | 22.50 | 0.94 |
| 4.533 | 1.87 | 10.533 | 5.15 | 16.533 | 2.34 | 22.53 | 0.94 |
| 4.567 | 1.87 | 10.567 | 5.15 | 16.567 | 2.34 | 22.57 | 0.94 |
| 4.600 | 1.87 | 10.600 | 5.15 | 16.600 | 2.34 | 22.60 | 0.94 |
| 4.633 | 1.87 | 10.633 | 5.15 | 16.633 | 2.34 | 22.63 | 1.41 |
| 4.667 | 1.87 | 10.667 | 5.15 | 16.667 | 2.34 | 22.67 | 1.41 |
| 4.700 | 1.87 | 10.700 | 5.15 | 16.700 | 2.34 | 22.70 | 1.41 |
| 4.733 | 1.87 | 10.733 | 5.15 | 16.733 | 2.34 | 22.73 | 1.41 |
| 4.767 | 1.87 | 10.767 | 5.15 | 16.767 | 2.34 | 22.77 | 1.41 |
| 4.800 | 1.87 | 10.800 | 5.15 | 16.800 | 2.34 | 22.80 | 1.41 |
| 4.833 | 1.87 | 10.833 | 5.15 | 16.833 | 1.41 | 22.83 | 0.94 |
| 4.867 | 1.87 | 10.867 | 5.15 | 16.867 | 1.41 | 22.87 | 0.94 |
| 4.900 | 1.87 | 10.900 | 5.15 | 16.900 | 1.41 | 22.90 | 0.94 |
| 4.933 | 1.87 | 10.933 | 5.15 | 16.933 | 1.41 | 22.93 | 0.94 |
| 4.967 | 1.87 | 10.967 | 5.15 | 16.967 | 1.41 | 22.97 | 0.94 |
| 5.000 | 1.87 | 11.000 | 5.16 | 17.000 | 1.41 | 23.00 | 0.94 |
| 5.033 | 1.87 | 11.033 | 7.03 | 17.033 | 1.41 | 23.03 | 0.94 |
| 5.067 | 1.87 | 11.067 | 7.03 | 17.067 | 1.41 | 23.07 | 0.94 |
| 5.100 | 1.87 | 11.100 | 7.03 | 17.100 | 1.41 | 23.10 | 0.94 |
| 5.133 | 1.87 | 11.133 | 7.03 | 17.133 | 1.41 | 23.13 | 0.94 |
| 5.167 | 1.87 | 11.167 | 7.03 | 17.167 | 1.41 | 23.17 | 0.94 |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 5.200 | 1.87 | 11.200 | 7.03   | 17.200 | 1.41 | 23.20 | 0.94 |
| 5.233 | 1.87 | 11.233 | 10.31  | 17.233 | 1.87 | 23.23 | 0.94 |
| 5.267 | 1.87 | 11.267 | 10.31  | 17.267 | 1.87 | 23.27 | 0.94 |
| 5.300 | 1.87 | 11.300 | 10.31  | 17.300 | 1.87 | 23.30 | 0.94 |
| 5.333 | 1.87 | 11.333 | 10.31  | 17.333 | 1.87 | 23.33 | 0.94 |
| 5.367 | 1.87 | 11.367 | 10.31  | 17.367 | 1.87 | 23.37 | 0.94 |
| 5.400 | 1.87 | 11.400 | 10.32  | 17.400 | 1.87 | 23.40 | 0.94 |
| 5.433 | 1.87 | 11.433 | 24.83  | 17.433 | 1.41 | 23.43 | 1.41 |
| 5.467 | 1.87 | 11.467 | 24.83  | 17.467 | 1.41 | 23.47 | 1.41 |
| 5.500 | 1.87 | 11.500 | 24.83  | 17.500 | 1.41 | 23.50 | 1.41 |
| 5.533 | 1.87 | 11.533 | 24.83  | 17.533 | 1.41 | 23.53 | 1.41 |
| 5.567 | 1.87 | 11.567 | 24.83  | 17.567 | 1.41 | 23.57 | 1.41 |
| 5.600 | 1.87 | 11.600 | 24.86  | 17.600 | 1.41 | 23.60 | 1.41 |
| 5.633 | 1.87 | 11.633 | 51.53  | 17.633 | 1.87 | 23.63 | 0.94 |
| 5.667 | 1.87 | 11.667 | 51.53  | 17.667 | 1.87 | 23.67 | 0.94 |
| 5.700 | 1.87 | 11.700 | 51.53  | 17.700 | 1.87 | 23.70 | 0.94 |
| 5.733 | 1.87 | 11.733 | 51.53  | 17.733 | 1.87 | 23.73 | 0.94 |
| 5.767 | 1.87 | 11.767 | 51.53  | 17.767 | 1.87 | 23.77 | 0.94 |
| 5.800 | 1.87 | 11.800 | 51.61  | 17.800 | 1.87 | 23.80 | 0.94 |
| 5.833 | 1.87 | 11.833 | 105.41 | 17.833 | 1.41 | 23.83 | 0.94 |
| 5.867 | 1.87 | 11.867 | 105.41 | 17.867 | 1.41 | 23.87 | 0.94 |
| 5.900 | 1.87 | 11.900 | 105.41 | 17.900 | 1.41 | 23.90 | 0.94 |
| 5.933 | 1.87 | 11.933 | 105.41 | 17.933 | 1.41 | 23.93 | 0.94 |
| 5.967 | 1.87 | 11.967 | 105.41 | 17.967 | 1.41 | 23.97 | 0.94 |
| 6.000 | 1.87 | 12.000 | 105.29 | 18.000 | 1.41 | 24.00 | 0.94 |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 2.633 | 0.94 | 8.633  | 2.81   | 14.633 | 2.81 | 20.63 | 1.41 |
| 2.667 | 0.94 | 8.667  | 2.81   | 14.667 | 2.81 | 20.67 | 1.41 |
| 2.700 | 0.94 | 8.700  | 2.81   | 14.700 | 2.81 | 20.70 | 1.41 |
| 2.733 | 0.94 | 8.733  | 2.81   | 14.733 | 2.81 | 20.73 | 1.41 |
| 2.767 | 0.94 | 8.767  | 2.81   | 14.767 | 2.81 | 20.77 | 1.41 |
| 2.800 | 0.94 | 8.800  | 2.81   | 14.800 | 2.81 | 20.80 | 1.41 |
| 2.833 | 0.94 | 8.833  | 2.81   | 14.833 | 2.81 | 20.83 | 1.41 |
| 2.867 | 0.94 | 8.867  | 2.81   | 14.867 | 2.81 | 20.87 | 1.41 |
| 2.900 | 0.94 | 8.900  | 2.81   | 14.900 | 2.81 | 20.90 | 1.41 |
| 2.933 | 0.94 | 8.933  | 2.81   | 14.933 | 2.81 | 20.93 | 1.41 |
| 2.967 | 0.94 | 8.967  | 2.81   | 14.967 | 2.81 | 20.97 | 1.41 |
| 3.000 | 0.94 | 9.000  | 2.81   | 15.000 | 2.81 | 21.00 | 1.41 |
| 3.033 | 0.94 | 9.033  | 2.81   | 15.033 | 2.34 | 21.03 | 0.94 |
| 3.067 | 0.94 | 9.067  | 2.81   | 15.067 | 2.34 | 21.07 | 0.94 |
| 3.100 | 0.94 | 9.100  | 2.81   | 15.100 | 2.34 | 21.10 | 0.94 |
| 3.133 | 0.94 | 9.133  | 2.81   | 15.133 | 2.34 | 21.13 | 0.94 |
| 3.167 | 0.94 | 9.167  | 2.81   | 15.167 | 2.34 | 21.17 | 0.94 |
| 3.200 | 0.94 | 9.200  | 2.81   | 15.200 | 2.34 | 21.20 | 0.94 |
| 3.233 | 0.94 | 9.233  | 2.81   | 15.233 | 2.34 | 21.23 | 1.41 |
| 3.267 | 0.94 | 9.267  | 2.81   | 15.267 | 2.34 | 21.27 | 1.41 |
| 3.300 | 0.94 | 9.300  | 2.81   | 15.300 | 2.34 | 21.30 | 1.41 |
| 3.333 | 0.94 | 9.333  | 2.81   | 15.333 | 2.34 | 21.33 | 1.41 |
| 3.367 | 0.94 | 9.367  | 2.81   | 15.367 | 2.34 | 21.37 | 1.41 |
| 3.400 | 0.94 | 9.400  | 2.81   | 15.400 | 2.34 | 21.40 | 1.41 |
| 3.433 | 0.94 | 9.433  | 2.81   | 15.433 | 2.34 | 21.43 | 0.94 |
| 3.467 | 0.94 | 9.467  | 2.81   | 15.467 | 2.34 | 21.47 | 0.94 |
| 3.500 | 0.94 | 9.500  | 2.81   | 15.500 | 2.34 | 21.50 | 0.94 |
| 3.533 | 0.94 | 9.533  | 2.81   | 15.533 | 2.34 | 21.53 | 0.94 |
| 3.567 | 0.94 | 9.567  | 2.81   | 15.567 | 2.34 | 21.57 | 0.94 |
| 3.600 | 0.94 | 9.600  | 2.81   | 15.600 | 2.34 | 21.60 | 0.94 |
| 3.633 | 0.94 | 9.633  | 2.81   | 15.633 | 2.34 | 21.63 | 1.41 |
| 3.667 | 0.94 | 9.667  | 2.81   | 15.667 | 2.34 | 21.67 | 1.41 |
| 3.700 | 0.94 | 9.700  | 2.81   | 15.700 | 2.34 | 21.70 | 1.41 |
| 3.733 | 0.94 | 9.733  | 2.81   | 15.733 | 2.34 | 21.73 | 1.41 |
| 3.767 | 0.94 | 9.767  | 2.81   | 15.767 | 2.34 | 21.77 | 1.41 |
| 3.800 | 0.94 | 9.800  | 2.81   | 15.800 | 2.34 | 21.80 | 1.41 |
| 3.833 | 0.94 | 9.833  | 2.81   | 15.833 | 2.34 | 21.83 | 0.94 |
| 3.867 | 0.94 | 9.867  | 2.81   | 15.867 | 2.34 | 21.87 | 0.94 |
| 3.900 | 0.94 | 9.900  | 2.81   | 15.900 | 2.34 | 21.90 | 0.94 |
| 3.933 | 0.94 | 9.933  | 2.81   | 15.933 | 2.34 | 21.93 | 0.94 |
| 3.967 | 0.94 | 9.967  | 2.81   | 15.967 | 2.34 | 21.97 | 0.94 |
| 4.000 | 0.94 | 10.000 | 2.81   | 16.000 | 2.34 | 22.00 | 0.94 |
| 4.033 | 1.87 | 10.033 | 5.15   | 16.033 | 2.34 | 22.03 | 0.94 |
| 4.067 | 1.87 | 10.067 | 5.15   | 16.067 | 2.34 | 22.07 | 0.94 |
| 4.100 | 1.87 | 10.100 | 5.15   | 16.100 | 2.34 | 22.10 | 0.94 |
| 4.133 | 1.87 | 10.133 | 5.15   | 16.133 | 2.34 | 22.13 | 0.94 |
| 4.167 | 1.87 | 10.167 | 5.15   | 16.167 | 2.34 | 22.17 | 0.94 |
| 4.200 | 1.87 | 10.200 | 5.15   | 16.200 | 2.34 | 22.20 | 0.94 |
| 4.233 | 1.87 | 10.233 | 5.15   | 16.233 | 2.34 | 22.23 | 1.41 |
| 4.267 | 1.87 | 10.267 | 5.15   | 16.267 | 2.34 | 22.27 | 1.41 |
| 4.300 | 1.87 | 10.300 | 5.15   | 16.300 | 2.34 | 22.30 | 1.41 |
| 4.333 | 1.87 | 10.333 | 5.15   | 16.333 | 2.34 | 22.33 | 1.41 |
| 4.367 | 1.87 | 10.367 | 5.15   | 16.367 | 2.34 | 22.37 | 1.41 |
| 4.400 | 1.87 | 10.400 | 5.15   | 16.400 | 2.34 | 22.40 | 1.41 |
| 4.433 | 1.87 | 10.433 | 5.15   | 16.433 | 2.34 | 22.43 | 0.94 |
| 4.467 | 1.87 | 10.467 | 5.15   | 16.467 | 2.34 | 22.47 | 0.94 |
| 4.500 | 1.87 | 10.500 | 5.15   | 16.500 | 2.34 | 22.50 | 0.94 |
| 4.533 | 1.87 | 10.533 | 5.15   | 16.533 | 2.34 | 22.53 | 0.94 |
| 4.567 | 1.87 | 10.567 | 5.15   | 16.567 | 2.34 | 22.57 | 0.94 |
| 4.600 | 1.87 | 10.600 | 5.15   | 16.600 | 2.34 | 22.60 | 0.94 |
| 4.633 | 1.87 | 10.633 | 5.15   | 16.633 | 2.34 | 22.63 | 1.41 |
| 4.667 | 1.87 | 10.667 | 5.15   | 16.667 | 2.34 | 22.67 | 1.41 |
| 4.700 | 1.87 | 10.700 | 5.15   | 16.700 | 2.34 | 22.70 | 1.41 |
| 4.733 | 1.87 | 10.733 | 5.15   | 16.733 | 2.34 | 22.73 | 1.41 |
| 4.767 | 1.87 | 10.767 | 5.15   | 16.767 | 2.34 | 22.77 | 1.41 |
| 4.800 | 1.87 | 10.800 | 5.15   | 16.800 | 2.34 | 22.80 | 1.41 |
| 4.833 | 1.87 | 10.833 | 5.15   | 16.833 | 1.41 | 22.83 | 0.94 |
| 4.867 | 1.87 | 10.867 | 5.15   | 16.867 | 1.41 | 22.87 | 0.94 |
| 4.900 | 1.87 | 10.900 | 5.15   | 16.900 | 1.41 | 22.90 | 0.94 |
| 4.933 | 1.87 | 10.933 | 5.15   | 16.933 | 1.41 | 22.93 | 0.94 |
| 4.967 | 1.87 | 10.967 | 5.15   | 16.967 | 1.41 | 22.97 | 0.94 |
| 5.000 | 1.87 | 11.000 | 5.16   | 17.000 | 1.41 | 23.00 | 0.94 |
| 5.033 | 1.87 | 11.033 | 7.03   | 17.033 | 1.41 | 23.03 | 0.94 |
| 5.067 | 1.87 | 11.067 | 7.03   | 17.067 | 1.41 | 23.07 | 0.94 |
| 5.100 | 1.87 | 11.100 | 7.03   | 17.100 | 1.41 | 23.10 | 0.94 |
| 5.133 | 1.87 | 11.133 | 7.03   | 17.133 | 1.41 | 23.13 | 0.94 |
| 5.167 | 1.87 | 11.167 | 7.03   | 17.167 | 1.41 | 23.17 | 0.94 |
| 5.200 | 1.87 | 11.200 | 7.03   | 17.200 | 1.41 | 23.20 | 0.94 |
| 5.233 | 1.87 | 11.233 | 10.31  | 17.233 | 1.87 | 23.23 | 0.94 |
| 5.267 | 1.87 | 11.267 | 10.31  | 17.267 | 1.87 | 23.27 | 0.94 |
| 5.300 | 1.87 | 11.300 | 10.31  | 17.300 | 1.87 | 23.30 | 0.94 |
| 5.333 | 1.87 | 11.333 | 10.31  | 17.333 | 1.87 | 23.33 | 0.94 |
| 5.367 | 1.87 | 11.367 | 10.31  | 17.367 | 1.87 | 23.37 | 0.94 |
| 5.400 | 1.87 | 11.400 | 10.32  | 17.400 | 1.87 | 23.40 | 0.94 |
| 5.433 | 1.87 | 11.433 | 24.83  | 17.433 | 1.41 | 23.43 | 1.41 |
| 5.467 | 1.87 | 11.467 | 24.83  | 17.467 | 1.41 | 23.47 | 1.41 |
| 5.500 | 1.87 | 11.500 | 24.83  | 17.500 | 1.41 | 23.50 | 1.41 |
| 5.533 | 1.87 | 11.533 | 24.83  | 17.533 | 1.41 | 23.53 | 1.41 |
| 5.567 | 1.87 | 11.567 | 24.83  | 17.567 | 1.41 | 23.57 | 1.41 |
| 5.600 | 1.87 | 11.600 | 24.86  | 17.600 | 1.41 | 23.60 | 1.41 |
| 5.633 | 1.87 | 11.633 | 51.53  | 17.633 | 1.87 | 23.63 | 0.94 |
| 5.667 | 1.87 | 11.667 | 51.53  | 17.667 | 1.87 | 23.67 | 0.94 |
| 5.700 | 1.87 | 11.700 | 51.53  | 17.700 | 1.87 | 23.70 | 0.94 |
| 5.733 | 1.87 | 11.733 | 51.53  | 17.733 | 1.87 | 23.73 | 0.94 |
| 5.767 | 1.87 | 11.767 | 51.53  | 17.767 | 1.87 | 23.77 | 0.94 |
| 5.800 | 1.87 | 11.800 | 51.61  | 17.800 | 1.87 | 23.80 | 0.94 |
| 5.833 | 1.87 | 11.833 | 105.41 | 17.833 | 1.41 | 23.83 | 0.94 |
| 5.867 | 1.87 | 11.867 | 105.41 | 17.867 | 1.41 | 23.87 | 0.94 |
| 5.900 | 1.87 | 11.900 | 105.41 | 17.900 | 1.41 | 23.90 | 0.94 |
| 5.933 | 1.87 | 11.933 | 105.41 | 17.933 | 1.41 | 23.93 | 0.94 |
| 5.967 | 1.87 | 11.967 | 105.41 | 17.967 | 1.41 | 23.97 | 0.94 |
| 6.000 | 1.87 | 12.000 | 105.29 | 18.000 | 1.41 | 24.00 | 0.94 |

Unit Hyd Qpeak (cms)= 1.809

PEAK FLOW (cms)= 1.084 (1)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 51.463  
TOTAL RAINFALL (mm)= 93.699  
RUNOFF COEFFICIENT = 0.549

(1) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB  
NASHYD ( 0403)  
ID= 1 DT= 2.0 min  
Area (ha)= 2.87  
Ia (mm)= 6.80  
U.H. Tp(hrs)= 0.15  
Curve Number (CN)= 81.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ---- TRANSFORMED HYETOGRAPH ---- |       |       |       |        |       |       |       |
|----------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                             | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                              | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                            | 0.94  | 6.033 | 1.87  | 12.033 | 18.74 | 18.03 | 1.41  |
| 0.067                            | 0.94  | 6.067 | 1.87  | 12.067 | 18.74 | 18.07 | 1.41  |
| 0.100                            | 0.94  | 6.100 | 1.87  | 12.100 | 18.74 | 18.10 | 1.41  |
| 0.133                            | 0.94  | 6.133 | 1.87  | 12.133 | 18.74 | 18.13 | 1.41  |
| 0.167                            | 0.94  | 6.167 | 1.87  | 12.167 | 18.74 | 18.17 | 1.41  |
| 0.200                            | 0.94  | 6.200 | 1.87  | 12.200 | 18.73 | 18.20 | 1.41  |
| 0.233                            | 0.94  | 6.233 | 1.87  | 12.233 | 11.71 | 18.23 | 1.41  |
| 0.267                            | 0.94  | 6.267 | 1.87  | 12.267 | 11.71 | 18.27 | 1.41  |
| 0.300                            | 0.94  | 6.300 | 1.87  | 12.300 | 11.71 | 18.30 | 1.41  |
| 0.333                            | 0.94  | 6.333 | 1.87  | 12.333 | 11.71 | 18.33 | 1.41  |
| 0.367                            | 0.94  | 6.367 | 1.87  | 12.367 | 11.71 | 18.37 | 1.41  |
| 0.400                            | 0.94  | 6.400 | 1.87  | 12.400 | 11.71 | 18.40 | 1.41  |
| 0.433                            | 0.94  | 6.433 | 1.87  | 12.433 | 8.43  | 18.43 | 1.87  |
| 0.467                            | 0.94  | 6.467 | 1.87  | 12.467 | 8.43  | 18.47 | 1.87  |
| 0.500                            | 0.94  | 6.500 | 1.87  | 12.500 | 8.43  | 18.50 | 1.87  |
| 0.533                            | 0.94  | 6.533 | 1.87  | 12.533 | 8.43  | 18.53 | 1.87  |
| 0.567                            | 0.94  | 6.567 | 1.87  | 12.567 | 8.43  | 18.57 | 1.87  |
| 0.600                            | 0.94  | 6.600 | 1.87  | 12.600 | 8.43  | 18.60 | 1.87  |
| 0.633                            | 0.94  | 6.633 | 1.87  | 12.633 | 7.96  | 18.63 | 1.41  |
| 0.667                            | 0.94  | 6.667 | 1.87  | 12.667 | 7.96  | 18.67 | 1.41  |
| 0.700                            | 0.94  | 6.700 | 1.87  | 12.700 | 7.96  | 18.70 | 1.41  |
| 0.733                            | 0.94  | 6.733 | 1.87  | 12.733 | 7.96  | 18.73 | 1.41  |
| 0.767                            | 0.94  | 6.767 | 1.87  | 12.767 | 7.96  | 18.77 | 1.41  |
| 0.800                            | 0.94  | 6.800 | 1.87  | 12.800 | 7.96  | 18.80 | 1.41  |
| 0.833                            | 0.94  | 6.833 | 1.87  | 12.833 | 5.62  | 18.83 | 1.41  |
| 0.867                            | 0.94  | 6.867 | 1.87  | 12.867 | 5.62  | 18.87 | 1.41  |
| 0.900                            | 0.94  | 6.900 | 1.87  | 12.900 | 5.62  | 18.90 | 1.41  |
| 0.933                            | 0.94  | 6.933 | 1.87  | 12.933 | 5.62  | 18.93 | 1.41  |
| 0.967                            | 0.94  | 6.967 | 1.87  | 12.967 | 5.62  | 18.97 | 1.41  |
| 1.000                            | 0.94  | 7.000 | 1.87  | 13.000 | 5.62  | 19.00 | 1.41  |
| 1.033                            | 0.94  | 7.033 | 1.87  | 13.033 | 4.68  | 19.03 | 1.87  |
| 1.067                            | 0.94  | 7.067 | 1.87  | 13.067 | 4.68  | 19.07 | 1.87  |
| 1.100                            | 0.94  | 7.100 | 1.87  | 13.100 | 4.68  | 19.10 | 1.87  |
| 1.133                            | 0.94  | 7.133 | 1.87  | 13.133 | 4.68  | 19.13 | 1.87  |
| 1.167                            | 0.94  | 7.167 | 1.87  | 13.167 | 4.68  | 19.17 | 1.87  |
| 1.200                            | 0.94  | 7.200 | 1.87  | 13.200 | 4.69  | 19.20 | 1.87  |
| 1.233                            | 0.94  | 7.233 | 1.87  | 13.233 | 4.68  | 19.23 | 1.41  |
| 1.267                            | 0.94  | 7.267 | 1.87  | 13.267 | 4.68  | 19.27 | 1.41  |
| 1.300                            | 0.94  | 7.300 | 1.87  | 13.300 | 4.68  | 19.30 | 1.41  |
| 1.333                            | 0.94  | 7.333 | 1.87  | 13.333 | 4.68  | 19.33 | 1.41  |
| 1.367                            | 0.94  | 7.367 | 1.87  | 13.367 | 4.68  | 19.37 | 1.41  |
| 1.400                            | 0.94  | 7.400 | 1.87  | 13.400 | 4.69  | 19.40 | 1.41  |
| 1.433                            | 0.94  | 7.433 | 1.87  | 13.433 | 4.68  | 19.43 | 1.87  |
| 1.467                            | 0.94  | 7.467 | 1.87  | 13.467 | 4.68  | 19.47 | 1.87  |
| 1.500                            | 0.94  | 7.500 | 1.87  | 13.500 | 4.68  | 19.50 | 1.87  |
| 1.533                            | 0.94  | 7.533 | 1.87  | 13.533 | 4.68  | 19.53 | 1.87  |
| 1.567                            | 0.94  | 7.567 | 1.87  | 13.567 | 4.68  | 19.57 | 1.87  |
| 1.600                            | 0.94  | 7.600 | 1.87  | 13.600 | 4.69  | 19.60 | 1.87  |
| 1.633                            | 0.94  | 7.633 | 1.87  | 13.633 | 4.68  | 19.63 | 1.41  |
| 1.667                            | 0.94  | 7.667 | 1.87  | 13.667 | 4.68  | 19.67 | 1.41  |
| 1.700                            | 0.94  | 7.700 | 1.87  | 13.700 | 4.68  | 19.70 | 1.41  |
| 1.733                            | 0.94  | 7.733 | 1.87  | 13.733 | 4.68  | 19.73 | 1.41  |
| 1.767                            | 0.94  | 7.767 | 1.87  | 13.767 | 4.68  | 19.77 | 1.41  |
| 1.800                            | 0.94  | 7.800 | 1.87  | 13.800 | 4.69  | 19.80 | 1.41  |
| 1.833                            | 0.94  | 7.833 | 1.87  | 13.833 | 4.69  | 19.83 | 1.87  |
| 1.867                            | 0.94  | 7.867 | 1.87  | 13.867 | 4.69  | 19.87 | 1.87  |
| 1.900                            | 0.94  | 7.900 | 1.87  | 13.900 | 4.69  | 19.90 | 1.87  |
| 1.933                            | 0.94  | 7.933 | 1.87  | 13.933 | 4.69  | 19.93 | 1.87  |
| 1.967                            | 0.94  | 7.967 | 1.87  | 13.967 | 4.69  | 19.97 | 1.87  |
| 2.000                            | 0.94  | 8.000 | 1.87  | 14.000 | 4.68  | 20.00 | 1.87  |
| 2.033                            | 0.94  | 8.033 | 2.81  | 14.033 | 2.81  | 20.03 | 1.41  |
| 2.067                            | 0.94  | 8.067 | 2.81  | 14.067 | 2.81  | 20.07 | 1.41  |
| 2.100                            | 0.94  | 8.100 | 2.81  | 14.100 | 2.81  | 20.10 | 1.41  |
| 2.133                            | 0.94  | 8.133 | 2.81  | 14.133 | 2.81  | 20.13 | 1.41  |
| 2.167                            | 0.94  | 8.167 | 2.81  | 14.167 | 2.81  | 20.17 | 1.41  |
| 2.200                            | 0.94  | 8.200 | 2.81  | 14.200 | 2.81  | 20.20 | 1.41  |
| 2.233                            | 0.94  | 8.233 | 2.81  | 14.233 | 2.81  | 20.23 | 1.41  |
| 2.267                            | 0.94  | 8.267 | 2.81  | 14.267 | 2.81  | 20.27 | 1.41  |
| 2.300                            | 0.94  | 8.300 | 2.81  | 14.300 | 2.81  | 20.30 | 1.41  |
| 2.333                            | 0.94  | 8.333 | 2.81  | 14.333 | 2.81  | 20.33 | 1.41  |
| 2.367                            | 0.94  | 8.367 | 2.81  | 14.367 | 2.81  | 20.37 | 1.41  |
| 2.400                            | 0.94  | 8.400 | 2.81  | 14.400 | 2.81  | 20.40 | 1.41  |
| 2.433                            | 0.94  | 8.433 | 2.81  | 14.433 | 2.81  | 20.43 | 0.94  |
| 2.467                            | 0.94  | 8.467 | 2.81  | 14.467 | 2.81  | 20.47 | 0.94  |
| 2.500                            | 0.94  | 8.500 | 2.81  | 14.500 | 2.81  | 20.50 | 0.94  |
| 2.533                            | 0.94  | 8.533 | 2.81  | 14.533 | 2.81  | 20.53 | 0.94  |
| 2.567                            | 0.94  | 8.567 | 2.81  | 14.567 | 2.81  | 20.57 | 0.94  |
| 2.600                            | 0.94  | 8.600 | 2.81  | 14.600 | 2.81  | 20.60 | 0.94  |
| 2.633                            | 0.94  | 8.633 | 2.81  | 14.633 | 2.81  | 20.63 | 1.41  |
| 2.667                            | 0.94  | 8.667 | 2.81  | 14.667 | 2.81  | 20.67 | 1.41  |
| 2.700                            | 0.94  | 8.700 | 2.81  | 14.700 | 2.81  | 20.70 | 1.41  |
| 2.733                            | 0.94  | 8.733 | 2.81  | 14.733 | 2.81  | 20.73 | 1.41  |
| 2.767                            | 0.94  | 8.767 | 2.81  | 14.767 | 2.81  | 20.77 | 1.41  |
| 2.800                            | 0.94  | 8.800 | 2.81  | 14.800 | 2.81  | 20.80 | 1.41  |
| 2.833                            | 0.94  | 8.833 | 2.81  | 14.833 | 2.81  | 20.83 | 1.41  |
| 2.867                            | 0.94  | 8.867 | 2.81  | 14.867 | 2.81  | 20.87 | 1.41  |
| 2.900                            | 0.94  | 8.900 | 2.81  | 14.900 | 2.81  | 20.90 | 1.41  |
| 2.933                            | 0.94  | 8.933 | 2.81  | 14.933 | 2.81  | 20.93 | 1.41  |
| 2.967                            | 0.94  | 8.967 | 2.81  | 14.967 | 2.81  | 20.97 | 1.41  |
| 3.000                            | 0.94  | 9.000 | 2.81  | 15.000 | 2.81  | 21.00 | 1.41  |
| 3.033                            | 0.94  | 9.033 | 2.81  | 15.033 | 2.34  | 21.03 | 0.94  |
| 3.067                            | 0.94  | 9.067 | 2.81  | 15.067 | 2.34  | 21.07 | 0.94  |
| 3.100                            | 0.94  | 9.100 | 2.81  | 15.100 | 2.34  | 21.10 | 0.94  |
| 3.133                            | 0.94  | 9.133 | 2.81  | 15.133 | 2.34  | 21.13 | 0.94  |
| 3.167                            | 0.94  | 9.167 | 2.81  | 15.167 | 2.34  | 21.17 | 0.94  |
| 3.200                            | 0.94  | 9.200 | 2.81  | 15.200 | 2.34  | 21.20 | 0.94  |
| 3.233                            | 0.94  | 9.233 | 2.81  | 15.233 | 2.34  | 21.23 | 1.41  |
| 3.267                            | 0.94  | 9.267 | 2.81  | 15.267 | 2.34  | 21.27 | 1.41  |
| 3.300                            | 0.94  | 9.300 | 2.81  | 15.300 | 2.34  | 21.30 | 1.41  |
| 3.333                            | 0.94  | 9.333 | 2.81  | 15.333 | 2.34  | 21.33 | 1.41  |
| 3.367                            | 0.94  | 9.367 | 2.81  | 15.367 | 2.34  | 21.37 | 1.41  |
| 3.400                            | 0.94  | 9.400 | 2.81  | 15.400 | 2.34  | 21.40 | 1.41  |
| 3.433                            | 0.94  | 9.433 | 2.81  | 15.433 | 2.34  | 21.43 | 0.94  |
| 3.467                            | 0.94  | 9.467 | 2.81  | 15.467 | 2.34  | 21.47 | 0.94  |
| 3.500                            | 0.94  | 9.500 | 2.81  | 15.500 | 2.34  | 21.50 | 0.94  |
| 3.533                            | 0.94  | 9.533 | 2.81  | 15.533 | 2.34  | 21.53 | 0.94  |
| 3.567                            | 0.94  | 9.567 | 2.81  | 15.567 | 2.34  | 21.57 | 0.94  |
| 3.600                            | 0.94  | 9.600 | 2.81  | 15.600 | 2.34  | 21.60 | 0.94  |
| 3.633                            | 0.94  | 9.633 | 2.81  | 15.633 | 2.34  | 21.63 | 1.41  |
| 3.667                            | 0.94  | 9.667 | 2.81  | 15.667 | 2.34  | 21.67 | 1.41  |
| 3.700                            | 0.94  | 9.700 | 2.81  | 15.700 | 2.34  | 21.70 | 1.41  |
| 3.733                            | 0.94  | 9.733 | 2.81  | 15.733 | 2.34  | 21.73 | 1.41  |
| 3.767                            | 0.94  | 9.767 | 2.81  | 15.767 | 2.34  | 21.77 | 1.41  |
| 3.800                            | 0.94  | 9.800 | 2.81  | 15.800 | 2.34  | 21.80 | 1.41  |
| 3.833                            | 0.94  | 9.833 | 2.81  | 15.833 | 2.34  | 21.83 | 0.94  |
| 3.867                            | 0.94  | 9.867 | 2.81  | 15.867 | 2.34  | 21.87 | 0.94  |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 3.900 | 0.94 | 9.900  | 2.81   | 15.900 | 2.34 | 21.90 | 0.94 |
| 3.933 | 0.94 | 9.933  | 2.81   | 15.933 | 2.34 | 21.93 | 0.94 |
| 3.967 | 0.94 | 9.967  | 2.81   | 15.967 | 2.34 | 21.97 | 0.94 |
| 4.000 | 0.94 | 10.000 | 2.81   | 16.000 | 2.34 | 22.00 | 0.94 |
| 4.033 | 1.87 | 10.033 | 5.15   | 16.033 | 2.34 | 22.03 | 0.94 |
| 4.067 | 1.87 | 10.067 | 5.15   | 16.067 | 2.34 | 22.07 | 0.94 |
| 4.100 | 1.87 | 10.100 | 5.15   | 16.100 | 2.34 | 22.10 | 0.94 |
| 4.133 | 1.87 | 10.133 | 5.15   | 16.133 | 2.34 | 22.13 | 0.94 |
| 4.167 | 1.87 | 10.167 | 5.15   | 16.167 | 2.34 | 22.17 | 0.94 |
| 4.200 | 1.87 | 10.200 | 5.15   | 16.200 | 2.34 | 22.20 | 0.94 |
| 4.233 | 1.87 | 10.233 | 5.15   | 16.233 | 2.34 | 22.23 | 1.41 |
| 4.267 | 1.87 | 10.267 | 5.15   | 16.267 | 2.34 | 22.27 | 1.41 |
| 4.300 | 1.87 | 10.300 | 5.15   | 16.300 | 2.34 | 22.30 | 1.41 |
| 4.333 | 1.87 | 10.333 | 5.15   | 16.333 | 2.34 | 22.33 | 1.41 |
| 4.367 | 1.87 | 10.367 | 5.15   | 16.367 | 2.34 | 22.37 | 1.41 |
| 4.400 | 1.87 | 10.400 | 5.15   | 16.400 | 2.34 | 22.40 | 1.41 |
| 4.433 | 1.87 | 10.433 | 5.15   | 16.433 | 2.34 | 22.43 | 0.94 |
| 4.467 | 1.87 | 10.467 | 5.15   | 16.467 | 2.34 | 22.47 | 0.94 |
| 4.500 | 1.87 | 10.500 | 5.15   | 16.500 | 2.34 | 22.50 | 0.94 |
| 4.533 | 1.87 | 10.533 | 5.15   | 16.533 | 2.34 | 22.53 | 0.94 |
| 4.567 | 1.87 | 10.567 | 5.15   | 16.567 | 2.34 | 22.57 | 0.94 |
| 4.600 | 1.87 | 10.600 | 5.15   | 16.600 | 2.34 | 22.60 | 0.94 |
| 4.633 | 1.87 | 10.633 | 5.15   | 16.633 | 2.34 | 22.63 | 1.41 |
| 4.667 | 1.87 | 10.667 | 5.15   | 16.667 | 2.34 | 22.67 | 1.41 |
| 4.700 | 1.87 | 10.700 | 5.15   | 16.700 | 2.34 | 22.70 | 1.41 |
| 4.733 | 1.87 | 10.733 | 5.15   | 16.733 | 2.34 | 22.73 | 1.41 |
| 4.767 | 1.87 | 10.767 | 5.15   | 16.767 | 2.34 | 22.77 | 1.41 |
| 4.800 | 1.87 | 10.800 | 5.15   | 16.800 | 2.34 | 22.80 | 1.41 |
| 4.833 | 1.87 | 10.833 | 5.15   | 16.833 | 1.41 | 22.83 | 0.94 |
| 4.867 | 1.87 | 10.867 | 5.15   | 16.867 | 1.41 | 22.87 | 0.94 |
| 4.900 | 1.87 | 10.900 | 5.15   | 16.900 | 1.41 | 22.90 | 0.94 |
| 4.933 | 1.87 | 10.933 | 5.15   | 16.933 | 1.41 | 22.93 | 0.94 |
| 4.967 | 1.87 | 10.967 | 5.15   | 16.967 | 1.41 | 22.97 | 0.94 |
| 5.000 | 1.87 | 11.000 | 5.16   | 17.000 | 1.41 | 23.00 | 0.94 |
| 5.033 | 1.87 | 11.033 | 7.03   | 17.033 | 1.41 | 23.03 | 0.94 |
| 5.067 | 1.87 | 11.067 | 7.03   | 17.067 | 1.41 | 23.07 | 0.94 |
| 5.100 | 1.87 | 11.100 | 7.03   | 17.100 | 1.41 | 23.10 | 0.94 |
| 5.133 | 1.87 | 11.133 | 7.03   | 17.133 | 1.41 | 23.13 | 0.94 |
| 5.167 | 1.87 | 11.167 | 7.03   | 17.167 | 1.41 | 23.17 | 0.94 |
| 5.200 | 1.87 | 11.200 | 7.03   | 17.200 | 1.41 | 23.20 | 0.94 |
| 5.233 | 1.87 | 11.233 | 10.31  | 17.233 | 1.87 | 23.23 | 0.94 |
| 5.267 | 1.87 | 11.267 | 10.31  | 17.267 | 1.87 | 23.27 | 0.94 |
| 5.300 | 1.87 | 11.300 | 10.31  | 17.300 | 1.87 | 23.30 | 0.94 |
| 5.333 | 1.87 | 11.333 | 10.31  | 17.333 | 1.87 | 23.33 | 0.94 |
| 5.367 | 1.87 | 11.367 | 10.31  | 17.367 | 1.87 | 23.37 | 0.94 |
| 5.400 | 1.87 | 11.400 | 10.32  | 17.400 | 1.87 | 23.40 | 0.94 |
| 5.433 | 1.87 | 11.433 | 24.83  | 17.433 | 1.41 | 23.43 | 1.41 |
| 5.467 | 1.87 | 11.467 | 24.83  | 17.467 | 1.41 | 23.47 | 1.41 |
| 5.500 | 1.87 | 11.500 | 24.83  | 17.500 | 1.41 | 23.50 | 1.41 |
| 5.533 | 1.87 | 11.533 | 24.83  | 17.533 | 1.41 | 23.53 | 1.41 |
| 5.567 | 1.87 | 11.567 | 24.83  | 17.567 | 1.41 | 23.57 | 1.41 |
| 5.600 | 1.87 | 11.600 | 24.86  | 17.600 | 1.41 | 23.60 | 1.41 |
| 5.633 | 1.87 | 11.633 | 51.53  | 17.633 | 1.87 | 23.63 | 0.94 |
| 5.667 | 1.87 | 11.667 | 51.53  | 17.667 | 1.87 | 23.67 | 0.94 |
| 5.700 | 1.87 | 11.700 | 51.53  | 17.700 | 1.87 | 23.70 | 0.94 |
| 5.733 | 1.87 | 11.733 | 51.53  | 17.733 | 1.87 | 23.73 | 0.94 |
| 5.767 | 1.87 | 11.767 | 51.53  | 17.767 | 1.87 | 23.77 | 0.94 |
| 5.800 | 1.87 | 11.800 | 51.61  | 17.800 | 1.87 | 23.80 | 0.94 |
| 5.833 | 1.87 | 11.833 | 105.41 | 17.833 | 1.41 | 23.83 | 0.94 |
| 5.867 | 1.87 | 11.867 | 105.41 | 17.867 | 1.41 | 23.87 | 0.94 |
| 5.900 | 1.87 | 11.900 | 105.41 | 17.900 | 1.41 | 23.90 | 0.94 |
| 5.933 | 1.87 | 11.933 | 105.41 | 17.933 | 1.41 | 23.93 | 0.94 |
| 5.967 | 1.87 | 11.967 | 105.41 | 17.967 | 1.41 | 23.97 | 0.94 |
| 6.000 | 1.87 | 12.000 | 105.29 | 18.000 | 1.41 | 24.00 | 0.94 |

Unit Hyd Qpeak (cms)= 0.731

PEAK FLOW (cms)= 0.422 (i)

TIME TO PEAK (hrs)= 12.033

RUNOFF VOLUME (mm)= 51.545

TOTAL RAINFALL (mm)= 93.699

RUNOFF COEFFICIENT = 0.550

(1) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |  |                    |                           |
|-------------------|--|--------------------|---------------------------|
| CALIB             |  | Area (ha)= 0.85    | Curve Number (CN)= 86.0   |
| NASHYD ( 0494)    |  | Ia (mm)= 4.80      | # of Linear Res.(N)= 3.00 |
| ID= 1 DT= 2.0 min |  | U.H. Tp(hrs)= 0.20 |                           |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ---- TRANSFORMED HYETOGRAPH ---- |       |       |       |        |       |       |      |       |  |
|----------------------------------|-------|-------|-------|--------|-------|-------|------|-------|--|
| TIME                             | RAIN  | TIME  | RAIN  | '      | TIME  | RAIN  | TIME | RAIN  |  |
| hrs                              | mm/hr | hrs   | mm/hr | '      | hrs   | mm/hr | hrs  | mm/hr |  |
| 0.033                            | 0.94  | 6.033 | 1.87  | 12.033 | 18.74 | 18.03 | 1.41 |       |  |
| 0.067                            | 0.94  | 6.067 | 1.87  | 12.067 | 18.74 | 18.07 | 1.41 |       |  |
| 0.100                            | 0.94  | 6.100 | 1.87  | 12.100 | 18.74 | 18.10 | 1.41 |       |  |
| 0.133                            | 0.94  | 6.133 | 1.87  | 12.133 | 18.74 | 18.13 | 1.41 |       |  |
| 0.167                            | 0.94  | 6.167 | 1.87  | 12.167 | 18.74 | 18.17 | 1.41 |       |  |
| 0.200                            | 0.94  | 6.200 | 1.87  | 12.200 | 18.73 | 18.20 | 1.41 |       |  |
| 0.233                            | 0.94  | 6.233 | 1.87  | 12.233 | 11.71 | 18.23 | 1.41 |       |  |
| 0.267                            | 0.94  | 6.267 | 1.87  | 12.267 | 11.71 | 18.27 | 1.41 |       |  |
| 0.300                            | 0.94  | 6.300 | 1.87  | 12.300 | 11.71 | 18.30 | 1.41 |       |  |
| 0.333                            | 0.94  | 6.333 | 1.87  | 12.333 | 11.71 | 18.33 | 1.41 |       |  |
| 0.367                            | 0.94  | 6.367 | 1.87  | 12.367 | 11.71 | 18.37 | 1.41 |       |  |
| 0.400                            | 0.94  | 6.400 | 1.87  | 12.400 | 11.71 | 18.40 | 1.41 |       |  |
| 0.433                            | 0.94  | 6.433 | 1.87  | 12.433 | 8.43  | 18.43 | 1.87 |       |  |
| 0.467                            | 0.94  | 6.467 | 1.87  | 12.467 | 8.43  | 18.47 | 1.87 |       |  |
| 0.500                            | 0.94  | 6.500 | 1.87  | 12.500 | 8.43  | 18.50 | 1.87 |       |  |
| 0.533                            | 0.94  | 6.533 | 1.87  | 12.533 | 8.43  | 18.53 | 1.87 |       |  |
| 0.567                            | 0.94  | 6.567 | 1.87  | 12.567 | 8.43  | 18.57 | 1.87 |       |  |
| 0.600                            | 0.94  | 6.600 | 1.87  | 12.600 | 8.43  | 18.60 | 1.87 |       |  |
| 0.633                            | 0.94  | 6.633 | 1.87  | 12.633 | 7.96  | 18.63 | 1.41 |       |  |
| 0.667                            | 0.94  | 6.667 | 1.87  | 12.667 | 7.96  | 18.67 | 1.41 |       |  |
| 0.700                            | 0.94  | 6.700 | 1.87  | 12.700 | 7.96  | 18.70 | 1.41 |       |  |
| 0.733                            | 0.94  | 6.733 | 1.87  | 12.733 | 7.96  | 18.73 | 1.41 |       |  |
| 0.767                            | 0.94  | 6.767 | 1.87  | 12.767 | 7.96  | 18.77 | 1.41 |       |  |
| 0.800                            | 0.94  | 6.800 | 1.87  | 12.800 | 7.96  | 18.80 | 1.41 |       |  |
| 0.833                            | 0.94  | 6.833 | 1.87  | 12.833 | 5.62  | 18.83 | 1.41 |       |  |
| 0.867                            | 0.94  | 6.867 | 1.87  | 12.867 | 5.62  | 18.87 | 1.41 |       |  |
| 0.900                            | 0.94  | 6.900 | 1.87  | 12.900 | 5.62  | 18.90 | 1.41 |       |  |
| 0.933                            | 0.94  | 6.933 | 1.87  | 12.933 | 5.62  | 18.93 | 1.41 |       |  |
| 0.967                            | 0.94  | 6.967 | 1.87  | 12.967 | 5.62  | 18.97 | 1.41 |       |  |
| 1.000                            | 0.94  | 7.000 | 1.87  | 13.000 | 5.62  | 19.00 | 1.41 |       |  |
| 1.033                            | 0.94  | 7.033 | 1.87  | 13.033 | 4.68  | 19.03 | 1.87 |       |  |
| 1.067                            | 0.94  | 7.067 | 1.87  | 13.067 | 4.68  | 19.07 | 1.87 |       |  |
| 1.100                            | 0.94  | 7.100 | 1.87  | 13.100 | 4.68  | 19.10 | 1.87 |       |  |
| 1.133                            | 0.94  | 7.133 | 1.87  | 13.133 | 4.68  | 19.13 | 1.87 |       |  |
| 1.167                            | 0.94  | 7.167 | 1.87  | 13.167 | 4.68  | 19.17 | 1.87 |       |  |
| 1.200                            | 0.94  | 7.200 | 1.87  | 13.200 | 4.69  | 19.20 | 1.87 |       |  |
| 1.233                            | 0.94  | 7.233 | 1.87  | 13.233 | 4.68  | 19.23 | 1.41 |       |  |
| 1.267                            | 0.94  | 7.267 | 1.87  | 13.267 | 4.68  | 19.27 | 1.41 |       |  |
| 1.300                            | 0.94  | 7.300 | 1.87  | 13.300 | 4.68  | 19.30 | 1.41 |       |  |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 1.333 | 0.94 | 7.333  | 1.87  | 13.333 | 4.68 | 19.33 | 1.41 |
| 1.367 | 0.94 | 7.367  | 1.87  | 13.367 | 4.68 | 19.37 | 1.41 |
| 1.400 | 0.94 | 7.400  | 1.87  | 13.400 | 4.69 | 19.40 | 1.41 |
| 1.433 | 0.94 | 7.433  | 1.87  | 13.433 | 4.68 | 19.43 | 1.87 |
| 1.467 | 0.94 | 7.467  | 1.87  | 13.467 | 4.68 | 19.47 | 1.87 |
| 1.500 | 0.94 | 7.500  | 1.87  | 13.500 | 4.68 | 19.50 | 1.87 |
| 1.533 | 0.94 | 7.533  | 1.87  | 13.533 | 4.68 | 19.53 | 1.87 |
| 1.567 | 0.94 | 7.567  | 1.87  | 13.567 | 4.68 | 19.57 | 1.87 |
| 1.600 | 0.94 | 7.600  | 1.87  | 13.600 | 4.69 | 19.60 | 1.87 |
| 1.633 | 0.94 | 7.633  | 1.87  | 13.633 | 4.68 | 19.63 | 1.41 |
| 1.667 | 0.94 | 7.667  | 1.87  | 13.667 | 4.68 | 19.67 | 1.41 |
| 1.700 | 0.94 | 7.700  | 1.87  | 13.700 | 4.68 | 19.70 | 1.41 |
| 1.733 | 0.94 | 7.733  | 1.87  | 13.733 | 4.68 | 19.73 | 1.41 |
| 1.767 | 0.94 | 7.767  | 1.87  | 13.767 | 4.68 | 19.77 | 1.41 |
| 1.800 | 0.94 | 7.800  | 1.87  | 13.800 | 4.69 | 19.80 | 1.41 |
| 1.833 | 0.94 | 7.833  | 1.87  | 13.833 | 4.69 | 19.83 | 1.87 |
| 1.867 | 0.94 | 7.867  | 1.87  | 13.867 | 4.69 | 19.87 | 1.87 |
| 1.900 | 0.94 | 7.900  | 1.87  | 13.900 | 4.69 | 19.90 | 1.87 |
| 1.933 | 0.94 | 7.933  | 1.87  | 13.933 | 4.69 | 19.93 | 1.87 |
| 1.967 | 0.94 | 7.967  | 1.87  | 13.967 | 4.69 | 19.97 | 1.87 |
| 2.000 | 0.94 | 8.000  | 1.87  | 14.000 | 4.68 | 20.00 | 1.87 |
| 2.033 | 0.94 | 8.033  | 2.81  | 14.033 | 2.81 | 20.03 | 1.41 |
| 2.067 | 0.94 | 8.067  | 2.81  | 14.067 | 2.81 | 20.07 | 1.41 |
| 2.100 | 0.94 | 8.100  | 2.81  | 14.100 | 2.81 | 20.10 | 1.41 |
| 2.133 | 0.94 | 8.133  | 2.81  | 14.133 | 2.81 | 20.13 | 1.41 |
| 2.167 | 0.94 | 8.167  | 2.81  | 14.167 | 2.81 | 20.17 | 1.41 |
| 2.200 | 0.94 | 8.200  | 2.81  | 14.200 | 2.81 | 20.20 | 1.41 |
| 2.233 | 0.94 | 8.233  | 2.81  | 14.233 | 2.81 | 20.23 | 1.41 |
| 2.267 | 0.94 | 8.267  | 2.81  | 14.267 | 2.81 | 20.27 | 1.41 |
| 2.300 | 0.94 | 8.300  | 2.81  | 14.300 | 2.81 | 20.30 | 1.41 |
| 2.333 | 0.94 | 8.333  | 2.81  | 14.333 | 2.81 | 20.33 | 1.41 |
| 2.367 | 0.94 | 8.367  | 2.81  | 14.367 | 2.81 | 20.37 | 1.41 |
| 2.400 | 0.94 | 8.400  | 2.81  | 14.400 | 2.81 | 20.40 | 1.41 |
| 2.433 | 0.94 | 8.433  | 2.81  | 14.433 | 2.81 | 20.43 | 0.94 |
| 2.467 | 0.94 | 8.467  | 2.81  | 14.467 | 2.81 | 20.47 | 0.94 |
| 2.500 | 0.94 | 8.500  | 2.81  | 14.500 | 2.81 | 20.50 | 0.94 |
| 2.533 | 0.94 | 8.533  | 2.81  | 14.533 | 2.81 | 20.53 | 0.94 |
| 2.567 | 0.94 | 8.567  | 2.81  | 14.567 | 2.81 | 20.57 | 0.94 |
| 2.600 | 0.94 | 8.600  | 2.81  | 14.600 | 2.81 | 20.60 | 0.94 |
| 2.633 | 0.94 | 8.633  | 2.81  | 14.633 | 2.81 | 20.63 | 1.41 |
| 2.667 | 0.94 | 8.667  | 2.81  | 14.667 | 2.81 | 20.67 | 1.41 |
| 2.700 | 0.94 | 8.700  | 2.81  | 14.700 | 2.81 | 20.70 | 1.41 |
| 2.733 | 0.94 | 8.733  | 2.81  | 14.733 | 2.81 | 20.73 | 1.41 |
| 2.767 | 0.94 | 8.767  | 2.81  | 14.767 | 2.81 | 20.77 | 1.41 |
| 2.800 | 0.94 | 8.800  | 2.81  | 14.800 | 2.81 | 20.80 | 1.41 |
| 2.833 | 0.94 | 8.833  | 2.81  | 14.833 | 2.81 | 20.83 | 1.41 |
| 2.867 | 0.94 | 8.867  | 2.81  | 14.867 | 2.81 | 20.87 | 1.41 |
| 2.900 | 0.94 | 8.900  | 2.81  | 14.900 | 2.81 | 20.90 | 1.41 |
| 2.933 | 0.94 | 8.933  | 2.81  | 14.933 | 2.81 | 20.93 | 1.41 |
| 2.967 | 0.94 | 8.967  | 2.81  | 14.967 | 2.81 | 20.97 | 1.41 |
| 3.000 | 0.94 | 9.000  | 2.81  | 15.000 | 2.81 | 21.00 | 1.41 |
| 3.033 | 0.94 | 9.033  | 2.81  | 15.033 | 2.34 | 21.03 | 0.94 |
| 3.067 | 0.94 | 9.067  | 2.81  | 15.067 | 2.34 | 21.07 | 0.94 |
| 3.100 | 0.94 | 9.100  | 2.81  | 15.100 | 2.34 | 21.10 | 0.94 |
| 3.133 | 0.94 | 9.133  | 2.81  | 15.133 | 2.34 | 21.13 | 0.94 |
| 3.167 | 0.94 | 9.167  | 2.81  | 15.167 | 2.34 | 21.17 | 0.94 |
| 3.200 | 0.94 | 9.200  | 2.81  | 15.200 | 2.34 | 21.20 | 0.94 |
| 3.233 | 0.94 | 9.233  | 2.81  | 15.233 | 2.34 | 21.23 | 1.41 |
| 3.267 | 0.94 | 9.267  | 2.81  | 15.267 | 2.34 | 21.27 | 1.41 |
| 3.300 | 0.94 | 9.300  | 2.81  | 15.300 | 2.34 | 21.30 | 1.41 |
| 3.333 | 0.94 | 9.333  | 2.81  | 15.333 | 2.34 | 21.33 | 1.41 |
| 3.367 | 0.94 | 9.367  | 2.81  | 15.367 | 2.34 | 21.37 | 1.41 |
| 3.400 | 0.94 | 9.400  | 2.81  | 15.400 | 2.34 | 21.40 | 1.41 |
| 3.433 | 0.94 | 9.433  | 2.81  | 15.433 | 2.34 | 21.43 | 0.94 |
| 3.467 | 0.94 | 9.467  | 2.81  | 15.467 | 2.34 | 21.47 | 0.94 |
| 3.500 | 0.94 | 9.500  | 2.81  | 15.500 | 2.34 | 21.50 | 0.94 |
| 3.533 | 0.94 | 9.533  | 2.81  | 15.533 | 2.34 | 21.53 | 0.94 |
| 3.567 | 0.94 | 9.567  | 2.81  | 15.567 | 2.34 | 21.57 | 0.94 |
| 3.600 | 0.94 | 9.600  | 2.81  | 15.600 | 2.34 | 21.60 | 0.94 |
| 3.633 | 0.94 | 9.633  | 2.81  | 15.633 | 2.34 | 21.63 | 1.41 |
| 3.667 | 0.94 | 9.667  | 2.81  | 15.667 | 2.34 | 21.67 | 1.41 |
| 3.700 | 0.94 | 9.700  | 2.81  | 15.700 | 2.34 | 21.70 | 1.41 |
| 3.733 | 0.94 | 9.733  | 2.81  | 15.733 | 2.34 | 21.73 | 1.41 |
| 3.767 | 0.94 | 9.767  | 2.81  | 15.767 | 2.34 | 21.77 | 1.41 |
| 3.800 | 0.94 | 9.800  | 2.81  | 15.800 | 2.34 | 21.80 | 1.41 |
| 3.833 | 0.94 | 9.833  | 2.81  | 15.833 | 2.34 | 21.83 | 0.94 |
| 3.867 | 0.94 | 9.867  | 2.81  | 15.867 | 2.34 | 21.87 | 0.94 |
| 3.900 | 0.94 | 9.900  | 2.81  | 15.900 | 2.34 | 21.90 | 0.94 |
| 3.933 | 0.94 | 9.933  | 2.81  | 15.933 | 2.34 | 21.93 | 0.94 |
| 3.967 | 0.94 | 9.967  | 2.81  | 15.967 | 2.34 | 21.97 | 0.94 |
| 4.000 | 0.94 | 10.000 | 2.81  | 16.000 | 2.34 | 22.00 | 0.94 |
| 4.033 | 1.87 | 10.033 | 5.15  | 16.033 | 2.34 | 22.03 | 0.94 |
| 4.067 | 1.87 | 10.067 | 5.15  | 16.067 | 2.34 | 22.07 | 0.94 |
| 4.100 | 1.87 | 10.100 | 5.15  | 16.100 | 2.34 | 22.10 | 0.94 |
| 4.133 | 1.87 | 10.133 | 5.15  | 16.133 | 2.34 | 22.13 | 0.94 |
| 4.167 | 1.87 | 10.167 | 5.15  | 16.167 | 2.34 | 22.17 | 0.94 |
| 4.200 | 1.87 | 10.200 | 5.15  | 16.200 | 2.34 | 22.20 | 0.94 |
| 4.233 | 1.87 | 10.233 | 5.15  | 16.233 | 2.34 | 22.23 | 1.41 |
| 4.267 | 1.87 | 10.267 | 5.15  | 16.267 | 2.34 | 22.27 | 1.41 |
| 4.300 | 1.87 | 10.300 | 5.15  | 16.300 | 2.34 | 22.30 | 1.41 |
| 4.333 | 1.87 | 10.333 | 5.15  | 16.333 | 2.34 | 22.33 | 1.41 |
| 4.367 | 1.87 | 10.367 | 5.15  | 16.367 | 2.34 | 22.37 | 1.41 |
| 4.400 | 1.87 | 10.400 | 5.15  | 16.400 | 2.34 | 22.40 | 1.41 |
| 4.433 | 1.87 | 10.433 | 5.15  | 16.433 | 2.34 | 22.43 | 0.94 |
| 4.467 | 1.87 | 10.467 | 5.15  | 16.467 | 2.34 | 22.47 | 0.94 |
| 4.500 | 1.87 | 10.500 | 5.15  | 16.500 | 2.34 | 22.50 | 0.94 |
| 4.533 | 1.87 | 10.533 | 5.15  | 16.533 | 2.34 | 22.53 | 0.94 |
| 4.567 | 1.87 | 10.567 | 5.15  | 16.567 | 2.34 | 22.57 | 0.94 |
| 4.600 | 1.87 | 10.600 | 5.15  | 16.600 | 2.34 | 22.60 | 0.94 |
| 4.633 | 1.87 | 10.633 | 5.15  | 16.633 | 2.34 | 22.63 | 1.41 |
| 4.667 | 1.87 | 10.667 | 5.15  | 16.667 | 2.34 | 22.67 | 1.41 |
| 4.700 | 1.87 | 10.700 | 5.15  | 16.700 | 2.34 | 22.70 | 1.41 |
| 4.733 | 1.87 | 10.733 | 5.15  | 16.733 | 2.34 | 22.73 | 1.41 |
| 4.767 | 1.87 | 10.767 | 5.15  | 16.767 | 2.34 | 22.77 | 1.41 |
| 4.800 | 1.87 | 10.800 | 5.15  | 16.800 | 2.34 | 22.80 | 1.41 |
| 4.833 | 1.87 | 10.833 | 5.15  | 16.833 | 1.41 | 22.83 | 0.94 |
| 4.867 | 1.87 | 10.867 | 5.15  | 16.867 | 1.41 | 22.87 | 0.94 |
| 4.900 | 1.87 | 10.900 | 5.15  | 16.900 | 1.41 | 22.90 | 0.94 |
| 4.933 | 1.87 | 10.933 | 5.15  | 16.933 | 1.41 | 22.93 | 0.94 |
| 4.967 | 1.87 | 10.967 | 5.15  | 16.967 | 1.41 | 22.97 | 0.94 |
| 5.000 | 1.87 | 11.000 | 5.16  | 17.000 | 1.41 | 23.00 | 0.94 |
| 5.033 | 1.87 | 11.033 | 7.03  | 17.033 | 1.41 | 23.03 | 0.94 |
| 5.067 | 1.87 | 11.067 | 7.03  | 17.067 | 1.41 | 23.07 | 0.94 |
| 5.100 | 1.87 | 11.100 | 7.03  | 17.100 | 1.41 | 23.10 | 0.94 |
| 5.133 | 1.87 | 11.133 | 7.03  | 17.133 | 1.41 | 23.13 | 0.94 |
| 5.167 | 1.87 | 11.167 | 7.03  | 17.167 | 1.41 | 23.17 | 0.94 |
| 5.200 | 1.87 | 11.200 | 7.03  | 17.200 | 1.41 | 23.20 | 0.94 |
| 5.233 | 1.87 | 11.233 | 10.31 | 17.233 | 1.87 | 23.23 | 0.94 |
| 5.267 | 1.87 | 11.267 | 10.31 | 17.267 | 1.87 | 23.27 | 0.94 |
| 5.300 | 1.87 | 11.300 | 10.31 | 17.300 | 1.87 | 23.30 | 0.94 |
| 5.333 | 1.87 | 11.333 | 10.31 | 17.333 | 1.87 | 23.33 | 0.94 |
| 5.367 | 1.87 | 11.367 | 10.31 | 17.367 | 1.87 | 23.37 | 0.94 |
| 5.400 | 1.87 | 11.400 | 10.32 | 17.400 | 1.87 | 23.40 | 0.94 |
| 5.433 | 1.87 | 11.433 | 24.83 | 17.433 | 1.41 | 23.43 | 1.41 |
| 5.467 | 1.87 | 11.467 | 24.83 | 17.467 | 1.41 | 23.47 | 1.41 |
| 5.500 | 1.87 | 11.500 | 24.83 | 17.500 | 1.41 | 23.50 | 1.41 |
| 5.533 | 1.87 | 11.533 | 24.83 | 17.533 | 1.41 | 23.53 | 1.41 |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 5.567 | 1.87 | 11.567 | 24.83  | 17.567 | 1.41 | 23.57 | 1.41 |
| 5.600 | 1.87 | 11.600 | 24.86  | 17.600 | 1.41 | 23.60 | 1.41 |
| 5.633 | 1.87 | 11.633 | 51.53  | 17.633 | 1.87 | 23.63 | 0.94 |
| 5.667 | 1.87 | 11.667 | 51.53  | 17.667 | 1.87 | 23.67 | 0.94 |
| 5.700 | 1.87 | 11.700 | 51.53  | 17.700 | 1.87 | 23.70 | 0.94 |
| 5.733 | 1.87 | 11.733 | 51.53  | 17.733 | 1.87 | 23.73 | 0.94 |
| 5.767 | 1.87 | 11.767 | 51.53  | 17.767 | 1.87 | 23.77 | 0.94 |
| 5.800 | 1.87 | 11.800 | 51.61  | 17.800 | 1.87 | 23.80 | 0.94 |
| 5.833 | 1.87 | 11.833 | 105.41 | 17.833 | 1.41 | 23.83 | 0.94 |
| 5.867 | 1.87 | 11.867 | 105.41 | 17.867 | 1.41 | 23.87 | 0.94 |
| 5.900 | 1.87 | 11.900 | 105.41 | 17.900 | 1.41 | 23.90 | 0.94 |
| 5.933 | 1.87 | 11.933 | 105.41 | 17.933 | 1.41 | 23.93 | 0.94 |
| 5.967 | 1.87 | 11.967 | 105.41 | 17.967 | 1.41 | 23.97 | 0.94 |
| 6.000 | 1.87 | 12.000 | 105.29 | 18.000 | 1.41 | 24.00 | 0.94 |

Unit Hyd Qpeak (cms)= 0.162

PEAK FLOW (cms)= 0.127 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 60.673  
TOTAL RAINFALL (mm)= 93.699  
RUNOFF COEFFICIENT = 0.648

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                  |                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------|
| READ STORM       | Filename: C:\Users\hfaulkner\AppData\Local\Temp\732e9928-e126-4c89-9ccf-fd4c260976d9\ec07d41d |
| Ptotal= 25.00 mm | Comments: 25mm 4hr Chicago                                                                    |

| TIME | RAIN  | TIME | RAIN  | TIME | RAIN  | TIME | RAIN  |
|------|-------|------|-------|------|-------|------|-------|
| hrs  | mm/hr | hrs  | mm/hr | hrs  | mm/hr | hrs  | mm/hr |
| 0.00 | 1.42  | 1.00 | 13.41 | 2.00 | 3.64  | 3.00 | 1.73  |
| 0.17 | 1.64  | 1.17 | 58.68 | 2.17 | 3.05  | 3.17 | 1.60  |
| 0.33 | 1.96  | 1.33 | 17.94 | 2.33 | 2.64  | 3.33 | 1.48  |
| 0.50 | 2.45  | 1.50 | 9.06  | 2.50 | 2.32  | 3.50 | 1.39  |
| 0.67 | 3.30  | 1.67 | 6.03  | 2.67 | 2.08  | 3.67 | 1.30  |
| 0.83 | 5.22  | 1.83 | 4.53  | 2.83 | 1.89  | 3.83 | 1.23  |

|                   |                    |                           |
|-------------------|--------------------|---------------------------|
| CALIB             | Area (ha)= 1.19    | Curve Number (CN)= 81.0   |
| NASHYD ( 0301)    | Ia (mm)= 6.80      | # of Linear Res.(N)= 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= 0.24 |                           |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ADD HYD ( 0041)   | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
|-------------------|-----------|-------------|-------------|-----------|
| 1 + 2 = 3         |           |             |             |           |
| ID1= 1 ( 0403):   | 2.87      | 0.422       | 12.03       | 51.54     |
| + ID2= 2 ( 0404): | 0.85      | 0.127       | 12.10       | 60.67     |
| =====             |           |             |             |           |
| ID = 3 ( 0041):   | 3.72      | 0.548       | 12.07       | 53.63     |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD ( 0042)   | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
|-------------------|-----------|-------------|-------------|-----------|
| 1 + 2 = 3         |           |             |             |           |
| ID1= 1 ( 0040):   | 13.55     | 1.937       | 12.07       | 51.46     |
| + ID2= 2 ( 0041): | 3.72      | 0.548       | 12.07       | 53.63     |
| =====             |           |             |             |           |
| ID = 3 ( 0042):   | 17.27     | 2.485       | 12.07       | 51.93     |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR( 0202) | OUTFLOW (cms) | STORAGE (ha.m.) | OUTFLOW (cms) | STORAGE (ha.m.) |
|------------------|---------------|-----------------|---------------|-----------------|
| IN= 2--> OUT= 1  |               |                 |               |                 |
| DT= 2.0 min      |               |                 |               |                 |
|                  | 0.0000        | 0.0000          | 1.2780        | 0.5195          |
|                  | 0.0070        | 0.0918          | 1.4910        | 0.6170          |
|                  | 0.0500        | 0.1672          | 1.7350        | 0.7524          |
|                  | 0.1740        | 0.2483          | 2.7110        | 0.8941          |
|                  | 0.6720        | 0.3349          | 5.2440        | 1.1182          |
|                  | 1.0220        | 0.4254          | 0.0000        | 0.0000          |

| INFLOW : ID= 2 ( 0042) | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
|------------------------|-----------|-------------|-------------|-----------|
| OUTFLOW: ID= 1 ( 0202) | 17.270    | 2.485       | 12.07       | 51.93     |
|                        | 17.270    | 0.871       | 12.37       | 49.78     |

PEAK FLOW REDUCTION [Qout/Qin](%)= 35.04  
TIME SHIFT OF PEAK FLOW (min)= 18.00  
MAXIMUM STORAGE USED (ha.m.)= 0.3866

Unit Hyd Qpeak (cms)= 0.189  
PEAK FLOW (cms)= 0.012 (i)  
TIME TO PEAK (hrs)= 1.667  
RUNOFF VOLUME (mm)= 4.257  
TOTAL RAINFALL (mm)= 24.998  
RUNOFF COEFFICIENT = 0.170

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0080)   | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
|-------------------|-----------|-------------|-------------|-----------|
| 1 + 2 = 3         |           |             |             |           |
| ID1= 1 ( 0202):   | 17.27     | 0.871       | 12.37       | 49.78     |
| + ID2= 2 ( 0033): | 14.33     | 0.572       | 12.33       | 41.87     |
| =====             |           |             |             |           |
| ID = 3 ( 0080):   | 31.60     | 1.439       | 12.37       | 46.19     |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |                    |                           |
|-------------------|--------------------|---------------------------|
| CALIB             | Area (ha)= 2.75    | Curve Number (CN)= 81.0   |
| NASHYD ( 0302)    | Ia (mm)= 6.80      | # of Linear Res.(N)= 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= 0.21 |                           |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME  | RAIN  | TIME  | RAIN  | TIME  | RAIN  | TIME | RAIN  |
|-------|-------|-------|-------|-------|-------|------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.033 | 1.42  | 1.033 | 13.41 | 2.033 | 3.64  | 3.03 | 1.73  |
| 0.067 | 1.42  | 1.067 | 13.41 | 2.067 | 3.64  | 3.07 | 1.73  |
| 0.100 | 1.42  | 1.100 | 13.41 | 2.100 | 3.64  | 3.10 | 1.73  |
| 0.133 | 1.42  | 1.133 | 13.41 | 2.133 | 3.64  | 3.13 | 1.73  |
| 0.167 | 1.42  | 1.167 | 13.41 | 2.167 | 3.64  | 3.17 | 1.73  |
| 0.200 | 1.64  | 1.200 | 58.68 | 2.200 | 3.05  | 3.20 | 1.60  |
| 0.233 | 1.64  | 1.233 | 58.68 | 2.233 | 3.05  | 3.23 | 1.60  |
| 0.267 | 1.64  | 1.267 | 58.68 | 2.267 | 3.05  | 3.27 | 1.60  |
| 0.300 | 1.64  | 1.300 | 58.68 | 2.300 | 3.05  | 3.30 | 1.60  |
| 0.333 | 1.64  | 1.333 | 58.68 | 2.333 | 3.05  | 3.33 | 1.60  |
| 0.367 | 1.96  | 1.367 | 17.94 | 2.367 | 2.64  | 3.37 | 1.48  |
| 0.400 | 1.96  | 1.400 | 17.94 | 2.400 | 2.64  | 3.40 | 1.48  |
| 0.433 | 1.96  | 1.433 | 17.94 | 2.433 | 2.64  | 3.43 | 1.48  |
| 0.467 | 1.96  | 1.467 | 17.94 | 2.467 | 2.64  | 3.47 | 1.48  |
| 0.500 | 1.96  | 1.500 | 17.94 | 2.500 | 2.64  | 3.50 | 1.48  |
| 0.533 | 2.45  | 1.533 | 9.06  | 2.533 | 2.32  | 3.53 | 1.39  |
| 0.567 | 2.45  | 1.567 | 9.06  | 2.567 | 2.32  | 3.57 | 1.39  |
| 0.600 | 2.45  | 1.600 | 9.06  | 2.600 | 2.32  | 3.60 | 1.39  |
| 0.633 | 2.45  | 1.633 | 9.06  | 2.633 | 2.32  | 3.63 | 1.39  |
| 0.667 | 2.45  | 1.667 | 9.06  | 2.667 | 2.32  | 3.67 | 1.39  |
| 0.700 | 3.30  | 1.700 | 6.03  | 2.700 | 2.08  | 3.70 | 1.30  |
| 0.733 | 3.30  | 1.733 | 6.03  | 2.733 | 2.08  | 3.73 | 1.30  |
| 0.767 | 3.30  | 1.767 | 6.03  | 2.767 | 2.08  | 3.77 | 1.30  |
| 0.800 | 3.30  | 1.800 | 6.03  | 2.800 | 2.08  | 3.80 | 1.30  |
| 0.833 | 3.30  | 1.833 | 6.03  | 2.833 | 2.08  | 3.83 | 1.30  |
| 0.867 | 5.22  | 1.867 | 4.53  | 2.867 | 1.89  | 3.87 | 1.23  |
| 0.900 | 5.22  | 1.900 | 4.53  | 2.900 | 1.89  | 3.90 | 1.23  |
| 0.933 | 5.22  | 1.933 | 4.53  | 2.933 | 1.89  | 3.93 | 1.23  |
| 0.967 | 5.22  | 1.967 | 4.53  | 2.967 | 1.89  | 3.97 | 1.23  |
| 1.000 | 5.22  | 2.000 | 4.53  | 3.000 | 1.89  | 4.00 | 1.23  |

Unit Hyd Qpeak (cms)= 0.500

PEAK FLOW (cms)= 0.030 (i)  
TIME TO PEAK (hrs)= 1.633  
RUNOFF VOLUME (mm)= 4.258  
TOTAL RAINFALL (mm)= 24.998  
RUNOFF COEFFICIENT = 0.170

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

V V I SSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U A A A A L  
V V I SS U U A A L  
VV I SSSS UUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM  
0 0 T T H H Y Y M M 0 0  
0 0 T T H H Y Y M M 0 0  
000 T T H H Y Y M M 000

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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voind.dat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\43da12c4-6d49-47c5-a26a-79df2a8727f0\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\43da12c4-6d49-47c5-a26a-79df2a8727f0\sc

DATE: 09/21/2025 TIME: 03:01:39

USER:

COMMENTS:

\*\* SIMULATION : 25mm 4hr Chicago \*\*

| ADD HYD ( 0030)   |              |                |                |              |
|-------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3         |              |                |                |              |
|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0301):   | 1.19         | 0.012          | 1.67           | 4.26         |
| + ID2= 2 ( 0302): | 2.75         | 0.030          | 1.63           | 4.26         |
| =====             |              |                |                |              |
| ID = 3 ( 0030):   | 3.94         | 0.042          | 1.63           | 4.26         |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB             |               |            |                    |                      |
|-------------------|---------------|------------|--------------------|----------------------|
| NASHYD ( 0303)    |               |            |                    |                      |
| ID= 1 DT= 2.0 min |               |            |                    |                      |
|                   | Area<br>(ha)  | Ia<br>(mm) | Curve Number (CN)= | # of Linear Res.(N)= |
|                   | 1.14          | 5.60       | 83.0               | 3.00                 |
|                   | U.H. Tp(hrs)= | 0.20       |                    |                      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |               |             |               |             |               |             |               |
|--------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                    | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                          | 1.42          | 1.033       | 13.41         | 2.033       | 3.64          | 3.03        | 1.73          |
| 0.067                          | 1.42          | 1.067       | 13.41         | 2.067       | 3.64          | 3.07        | 1.73          |
| 0.100                          | 1.42          | 1.100       | 13.41         | 2.100       | 3.64          | 3.10        | 1.73          |
| 0.133                          | 1.42          | 1.133       | 13.41         | 2.133       | 3.64          | 3.13        | 1.73          |
| 0.167                          | 1.42          | 1.167       | 13.41         | 2.167       | 3.64          | 3.17        | 1.73          |
| 0.200                          | 1.64          | 1.200       | 58.68         | 2.200       | 3.05          | 3.20        | 1.60          |
| 0.233                          | 1.64          | 1.233       | 58.68         | 2.233       | 3.05          | 3.23        | 1.60          |
| 0.267                          | 1.64          | 1.267       | 58.68         | 2.267       | 3.05          | 3.27        | 1.60          |
| 0.300                          | 1.64          | 1.300       | 58.68         | 2.300       | 3.05          | 3.30        | 1.60          |
| 0.333                          | 1.64          | 1.333       | 58.68         | 2.333       | 3.05          | 3.33        | 1.60          |
| 0.367                          | 1.96          | 1.367       | 17.94         | 2.367       | 2.64          | 3.37        | 1.48          |
| 0.400                          | 1.96          | 1.400       | 17.94         | 2.400       | 2.64          | 3.40        | 1.48          |
| 0.433                          | 1.96          | 1.433       | 17.94         | 2.433       | 2.64          | 3.43        | 1.48          |
| 0.467                          | 1.96          | 1.467       | 17.94         | 2.467       | 2.64          | 3.47        | 1.48          |
| 0.500                          | 1.96          | 1.500       | 17.94         | 2.500       | 2.64          | 3.50        | 1.48          |
| 0.533                          | 2.45          | 1.533       | 9.06          | 2.533       | 2.32          | 3.53        | 1.39          |
| 0.567                          | 2.45          | 1.567       | 9.06          | 2.567       | 2.32          | 3.57        | 1.39          |
| 0.600                          | 2.45          | 1.600       | 9.06          | 2.600       | 2.32          | 3.60        | 1.39          |
| 0.633                          | 2.45          | 1.633       | 9.06          | 2.633       | 2.32          | 3.63        | 1.39          |
| 0.667                          | 2.45          | 1.667       | 9.06          | 2.667       | 2.32          | 3.67        | 1.39          |
| 0.700                          | 3.30          | 1.700       | 6.03          | 2.700       | 2.08          | 3.70        | 1.30          |
| 0.733                          | 3.30          | 1.733       | 6.03          | 2.733       | 2.08          | 3.73        | 1.30          |
| 0.767                          | 3.30          | 1.767       | 6.03          | 2.767       | 2.08          | 3.77        | 1.30          |
| 0.800                          | 3.30          | 1.800       | 6.03          | 2.800       | 2.08          | 3.80        | 1.30          |
| 0.833                          | 3.30          | 1.833       | 6.03          | 2.833       | 2.08          | 3.83        | 1.30          |
| 0.867                          | 5.22          | 1.867       | 4.53          | 2.867       | 1.89          | 3.87        | 1.23          |
| 0.900                          | 5.22          | 1.900       | 4.53          | 2.900       | 1.89          | 3.90        | 1.23          |
| 0.933                          | 5.22          | 1.933       | 4.53          | 2.933       | 1.89          | 3.93        | 1.23          |
| 0.967                          | 5.22          | 1.967       | 4.53          | 2.967       | 1.89          | 3.97        | 1.23          |
| 1.000                          | 5.22          | 2.000       | 4.53          | 3.000       | 1.89          | 4.00        | 1.23          |

Unit Hyd Qpeak (cms)= 0.218

PEAK FLOW (cms)= 0.017 (i)  
TIME TO PEAK (hrs)= 1.567  
RUNOFF VOLUME (mm)= 5.268  
TOTAL RAINFALL (mm)= 24.998  
RUNOFF COEFFICIENT = 0.211

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0031)   |              |                |                |              |
|-------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3         |              |                |                |              |
|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0030):   | 3.94         | 0.042          | 1.63           | 4.26         |
| + ID2= 2 ( 0303): | 1.14         | 0.017          | 1.57           | 5.27         |
| =====             |              |                |                |              |
| ID = 3 ( 0031):   | 5.08         | 0.059          | 1.60           | 4.48         |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR( 0201)       |                  |                    |                  |                    |
|------------------------|------------------|--------------------|------------------|--------------------|
| IN= 2---> OUT= 1       |                  |                    |                  |                    |
| DT= 2.0 min            |                  |                    |                  |                    |
| OVERFLOW IS OFF        |                  |                    |                  |                    |
|                        | OUTFLOW<br>(cms) | STORAGE<br>(ha.m.) | OUTFLOW<br>(cms) | STORAGE<br>(ha.m.) |
| 0.0000                 | 0.0000           | 0.0000             | 0.0840           | 0.3591             |
| 0.0050                 | 0.0623           | 0.0920             | 0.4212           |                    |
| 0.0470                 | 0.1654           | 0.5950             | 0.4851           |                    |
| 0.0680                 | 0.2596           | 2.6870             | 0.6182           |                    |
|                        | AREA<br>(ha)     | QPEAK<br>(cms)     | TPEAK<br>(hrs)   | R.V.<br>(mm)       |
| INFLOW : ID= 2 ( 0031) | 5.080            | 0.059              | 1.60             | 4.48               |
| OUTFLOW: ID= 1 ( 0201) | 5.080            | 0.002              | 4.43             | 3.79               |

PEAK FLOW REDUCTION [Qout/Qin](%)= 2.90  
TIME SHIFT OF PEAK FLOW (min)=170.00  
MAXIMUM STORAGE USED (ha.m.)= 0.0213

| CALIB             |               |            |                    |                      |
|-------------------|---------------|------------|--------------------|----------------------|
| NASHYD ( 0502)    |               |            |                    |                      |
| ID= 1 DT= 2.0 min |               |            |                    |                      |
|                   | Area<br>(ha)  | Ia<br>(mm) | Curve Number (CN)= | # of Linear Res.(N)= |
|                   | 0.53          | 8.00       | 71.0               | 3.00                 |
|                   | U.H. Tp(hrs)= | 0.22       |                    |                      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |               |             |               |             |               |             |               |
|--------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                    | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                          | 1.42          | 1.033       | 13.41         | 2.033       | 3.64          | 3.03        | 1.73          |
| 0.067                          | 1.42          | 1.067       | 13.41         | 2.067       | 3.64          | 3.07        | 1.73          |
| 0.100                          | 1.42          | 1.100       | 13.41         | 2.100       | 3.64          | 3.10        | 1.73          |
| 0.133                          | 1.42          | 1.133       | 13.41         | 2.133       | 3.64          | 3.13        | 1.73          |
| 0.167                          | 1.42          | 1.167       | 13.41         | 2.167       | 3.64          | 3.17        | 1.73          |
| 0.200                          | 1.64          | 1.200       | 58.68         | 2.200       | 3.05          | 3.20        | 1.60          |
| 0.233                          | 1.64          | 1.233       | 58.68         | 2.233       | 3.05          | 3.23        | 1.60          |
| 0.267                          | 1.64          | 1.267       | 58.68         | 2.267       | 3.05          | 3.27        | 1.60          |
| 0.300                          | 1.64          | 1.300       | 58.68         | 2.300       | 3.05          | 3.30        | 1.60          |
| 0.333                          | 1.64          | 1.333       | 58.68         | 2.333       | 3.05          | 3.33        | 1.60          |
| 0.367                          | 1.96          | 1.367       | 17.94         | 2.367       | 2.64          | 3.37        | 1.48          |
| 0.400                          | 1.96          | 1.400       | 17.94         | 2.400       | 2.64          | 3.40        | 1.48          |
| 0.433                          | 1.96          | 1.433       | 17.94         | 2.433       | 2.64          | 3.43        | 1.48          |
| 0.467                          | 1.96          | 1.467       | 17.94         | 2.467       | 2.64          | 3.47        | 1.48          |
| 0.500                          | 1.96          | 1.500       | 17.94         | 2.500       | 2.64          | 3.50        | 1.48          |
| 0.533                          | 2.45          | 1.533       | 9.06          | 2.533       | 2.32          | 3.53        | 1.39          |
| 0.567                          | 2.45          | 1.567       | 9.06          | 2.567       | 2.32          | 3.57        | 1.39          |
| 0.600                          | 2.45          | 1.600       | 9.06          | 2.600       | 2.32          | 3.60        | 1.39          |

|       |      |       |      |       |      |      |      |
|-------|------|-------|------|-------|------|------|------|
| 0.633 | 2.45 | 1.633 | 9.06 | 2.633 | 2.32 | 3.63 | 1.39 |
| 0.667 | 2.45 | 1.667 | 9.06 | 2.667 | 2.32 | 3.67 | 1.39 |
| 0.700 | 3.30 | 1.700 | 6.03 | 2.700 | 2.08 | 3.70 | 1.30 |
| 0.733 | 3.30 | 1.733 | 6.03 | 2.733 | 2.08 | 3.73 | 1.30 |
| 0.767 | 3.30 | 1.767 | 6.03 | 2.767 | 2.08 | 3.77 | 1.30 |
| 0.800 | 3.30 | 1.800 | 6.03 | 2.800 | 2.08 | 3.80 | 1.30 |
| 0.833 | 3.30 | 1.833 | 6.03 | 2.833 | 2.08 | 3.83 | 1.30 |
| 0.867 | 5.22 | 1.867 | 4.53 | 2.867 | 1.89 | 3.87 | 1.23 |
| 0.900 | 5.22 | 1.900 | 4.53 | 2.900 | 1.89 | 3.90 | 1.23 |
| 0.933 | 5.22 | 1.933 | 4.53 | 2.933 | 1.89 | 3.93 | 1.23 |
| 0.967 | 5.22 | 1.967 | 4.53 | 2.967 | 1.89 | 3.97 | 1.23 |
| 1.000 | 5.22 | 2.000 | 4.53 | 3.000 | 1.89 | 4.00 | 1.23 |

Unit Hyd Qpeak (cms)= 0.092

PEAK FLOW (cms)= 0.003 (i)  
TIME TO PEAK (hrs)= 1.667  
RUNOFF VOLUME (mm)= 2.392  
TOTAL RAINFALL (mm)= 24.998  
RUNOFF COEFFICIENT = 0.096

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB             |               |            |                    |                      |
|-------------------|---------------|------------|--------------------|----------------------|
| NASHYD ( 0501)    |               |            |                    |                      |
| ID= 1 DT= 2.0 min |               |            |                    |                      |
|                   | Area<br>(ha)  | Ia<br>(mm) | Curve Number (CN)= | # of Linear Res.(N)= |
|                   | 8.72          | 8.00       | 71.0               | 3.00                 |
|                   | U.H. Tp(hrs)= | 0.42       |                    |                      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |               |             |               |             |               |             |               |
|--------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                    | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                          | 1.42          | 1.033       | 13.41         | 2.033       | 3.64          | 3.03        | 1.73          |
| 0.067                          | 1.42          | 1.067       | 13.41         | 2.067       | 3.64          | 3.07        | 1.73          |
| 0.100                          | 1.42          | 1.100       | 13.41         | 2.100       | 3.64          | 3.10        | 1.73          |
| 0.133                          | 1.42          | 1.133       | 13.41         | 2.133       | 3.64          | 3.13        | 1.73          |
| 0.167                          | 1.42          | 1.167       | 13.41         | 2.167       | 3.64          | 3.17        | 1.73          |
| 0.200                          | 1.64          | 1.200       | 58.68         | 2.200       | 3.05          | 3.20        | 1.60          |
| 0.233                          | 1.64          | 1.233       | 58.68         | 2.233       | 3.05          | 3.23        | 1.60          |
| 0.267                          | 1.64          | 1.267       | 58.68         | 2.267       | 3.05          | 3.27        | 1.60          |
| 0.300                          | 1.64          | 1.300       | 58.68         | 2.300       | 3.05          | 3.30        | 1.60          |
| 0.333                          | 1.64          | 1.333       | 58.68         | 2.333       | 3.05          | 3.33        | 1.60          |
| 0.367                          | 1.96          | 1.367       | 17.94         | 2.367       | 2.64          | 3.37        | 1.48          |
| 0.400                          | 1.96          | 1.400       | 17.94         | 2.400       | 2.64          | 3.40        | 1.48          |
| 0.433                          | 1.96          | 1.433       | 17.94         | 2.433       | 2.64          | 3.43        | 1.48          |
| 0.467                          | 1.96          | 1.467       | 17.94         | 2.467       | 2.64          | 3.47        | 1.48          |
| 0.500                          | 1.96          | 1.500       | 17.94         | 2.500       | 2.64          | 3.50        | 1.48          |
| 0.533                          | 2.45          | 1.533       | 9.06          | 2.533       | 2.32          | 3.53        | 1.39          |
| 0.567                          | 2.45          | 1.567       | 9.06          | 2.567       | 2.32          | 3.57        | 1.39          |
| 0.600                          | 2.45          | 1.600       | 9.06          | 2.600       | 2.32          | 3.60        | 1.39          |
| 0.633                          | 2.45          | 1.633       | 9.06          | 2.633       | 2.32          | 3.63        | 1.39          |
| 0.667                          | 2.45          | 1.667       | 9.06          | 2.667       | 2.32          | 3.67        | 1.39          |
| 0.700                          | 3.30          | 1.700       | 6.03          | 2.700       | 2.08          | 3.70        | 1.30          |
| 0.733                          | 3.30          | 1.733       | 6.03          | 2.733       | 2.08          | 3.73        | 1.30          |
| 0.767                          | 3.30          | 1.767       | 6.03          | 2.767       | 2.08          | 3.77        | 1.30          |
| 0.800                          | 3.30          | 1.800       | 6.03          | 2.800       | 2.08          | 3.80        | 1.30          |
| 0.833                          | 3.30          | 1.833       | 6.03          | 2.833       | 2.08          | 3.83        | 1.30          |
| 0.867                          | 5.22          | 1.867       | 4.53          | 2.867       | 1.89          | 3.87        | 1.23          |
| 0.900                          | 5.22          | 1.900       | 4.53          | 2.900       | 1.89          | 3.90        | 1.23          |
| 0.933                          | 5.22          | 1.933       | 4.53          | 2.933       | 1.89          | 3.93        | 1.23          |
| 0.967                          | 5.22          | 1.967       | 4.53          | 2.967       | 1.89          | 3.97        | 1.23          |
| 1.000                          | 5.22          | 2.000       | 4.53          | 3.000       | 1.89          | 4.00        | 1.23          |

Unit Hyd Qpeak (cms)= 0.793

PEAK FLOW (cms)= 0.035 (i)  
TIME TO PEAK (hrs)= 1.967  
RUNOFF VOLUME (mm)= 2.393  
TOTAL RAINFALL (mm)= 24.998  
RUNOFF COEFFICIENT = 0.096

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0032)   |              |                |                |              |
|-------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3         |              |                |                |              |
|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0501):   | 8.72         | 0.035          | 1.97           | 2.39         |
| + ID2= 2 ( 0502): | 0.53         | 0.003          | 1.67           | 2.39         |
| =====             |              |                |                |              |
| ID = 3 ( 0032):   | 9.25         | 0.037          | 1.97           | 2.39         |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD ( 0033)   |              |                |                |              |
|-------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3         |              |                |                |              |
|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0201):   | 5.08         | 0.002          | 4.43           | 3.79         |
| + ID2= 2 ( 0032): | 9.25         | 0.037          | 1.97           | 2.39         |
| =====             |              |                |                |              |
| ID = 3 ( 0033):   | 14.33        | 0.038          | 1.97           | 2.89         |

|       |      |       |       |       |      |      |      |
|-------|------|-------|-------|-------|------|------|------|
| 0.467 | 1.96 | 1.467 | 17.94 | 2.467 | 2.64 | 3.47 | 1.48 |
| 0.500 | 1.96 | 1.500 | 17.94 | 2.500 | 2.64 | 3.50 | 1.48 |
| 0.533 | 2.45 | 1.533 | 9.06  | 2.533 | 2.32 | 3.53 | 1.39 |
| 0.567 | 2.45 | 1.567 | 9.06  | 2.567 | 2.32 | 3.57 | 1.39 |
| 0.600 | 2.45 | 1.600 | 9.06  | 2.600 | 2.32 | 3.60 | 1.39 |
| 0.633 | 2.45 | 1.633 | 9.06  | 2.633 | 2.32 | 3.63 | 1.39 |
| 0.667 | 2.45 | 1.667 | 9.06  | 2.667 | 2.32 | 3.67 | 1.39 |
| 0.700 | 3.30 | 1.700 | 6.03  | 2.700 | 2.08 | 3.70 | 1.30 |
| 0.733 | 3.30 | 1.733 | 6.03  | 2.733 | 2.08 | 3.73 | 1.30 |
| 0.767 | 3.30 | 1.767 | 6.03  | 2.767 | 2.08 | 3.77 | 1.30 |
| 0.800 | 3.30 | 1.800 | 6.03  | 2.800 | 2.08 | 3.80 | 1.30 |
| 0.833 | 3.30 | 1.833 | 6.03  | 2.833 | 2.08 | 3.83 | 1.30 |
| 0.867 | 5.22 | 1.867 | 4.53  | 2.867 | 1.89 | 3.87 | 1.23 |
| 0.900 | 5.22 | 1.900 | 4.53  | 2.900 | 1.89 | 3.90 | 1.23 |
| 0.933 | 5.22 | 1.933 | 4.53  | 2.933 | 1.89 | 3.93 | 1.23 |
| 0.967 | 5.22 | 1.967 | 4.53  | 2.967 | 1.89 | 3.97 | 1.23 |
| 1.000 | 5.22 | 2.000 | 4.53  | 3.000 | 1.89 | 4.00 | 1.23 |

Unit Hyd Qpeak (cms)= 1.425

PEAK FLOW (cms)= 0.074 (i)  
TIME TO PEAK (hrs)= 1.533  
RUNOFF VOLUME (mm)= 4.216  
TOTAL RAINFALL (mm)= 24.998  
RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|       |      |       |      |       |      |      |      |
|-------|------|-------|------|-------|------|------|------|
| 0.700 | 3.30 | 1.700 | 6.03 | 2.700 | 2.08 | 3.70 | 1.30 |
| 0.733 | 3.30 | 1.733 | 6.03 | 2.733 | 2.08 | 3.73 | 1.30 |
| 0.767 | 3.30 | 1.767 | 6.03 | 2.767 | 2.08 | 3.77 | 1.30 |
| 0.800 | 3.30 | 1.800 | 6.03 | 2.800 | 2.08 | 3.80 | 1.30 |
| 0.833 | 3.30 | 1.833 | 6.03 | 2.833 | 2.08 | 3.83 | 1.30 |
| 0.867 | 5.22 | 1.867 | 4.53 | 2.867 | 1.89 | 3.87 | 1.23 |
| 0.900 | 5.22 | 1.900 | 4.53 | 2.900 | 1.89 | 3.90 | 1.23 |
| 0.933 | 5.22 | 1.933 | 4.53 | 2.933 | 1.89 | 3.93 | 1.23 |
| 0.967 | 5.22 | 1.967 | 4.53 | 2.967 | 1.89 | 3.97 | 1.23 |
| 1.000 | 5.22 | 2.000 | 4.53 | 3.000 | 1.89 | 4.00 | 1.23 |

Unit Hyd Qpeak (cms)= 0.731

PEAK FLOW (cms)= 0.037 (i)  
TIME TO PEAK (hrs)= 1.533  
RUNOFF VOLUME (mm)= 4.257  
TOTAL RAINFALL (mm)= 24.998  
RUNOFF COEFFICIENT = 0.170

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |               |      |                      |      |  |  |  |
|-------------------|---------------|------|----------------------|------|--|--|--|
| CALIB             |               |      |                      |      |  |  |  |
| NASHYD ( 0404)    | Area (ha)=    | 0.85 | Curve Number (CN)=   | 86.0 |  |  |  |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 4.80 | # of Linear Res.(N)= | 3.00 |  |  |  |
|                   | U.H. Tp(hrs)= | 0.20 |                      |      |  |  |  |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

|                   |               |      |                      |      |  |  |  |
|-------------------|---------------|------|----------------------|------|--|--|--|
| CALIB             |               |      |                      |      |  |  |  |
| NASHYD ( 0402)    | Area (ha)=    | 7.58 | Curve Number (CN)=   | 81.0 |  |  |  |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 6.90 | # of Linear Res.(N)= | 3.00 |  |  |  |
|                   | U.H. Tp(hrs)= | 0.16 |                      |      |  |  |  |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME  | RAIN  | TIME  | RAIN  | TIME  | RAIN  | TIME | RAIN  |
|-------|-------|-------|-------|-------|-------|------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.033 | 1.42  | 1.033 | 13.41 | 2.033 | 3.64  | 3.03 | 1.73  |
| 0.067 | 1.42  | 1.067 | 13.41 | 2.067 | 3.64  | 3.07 | 1.73  |
| 0.100 | 1.42  | 1.100 | 13.41 | 2.100 | 3.64  | 3.10 | 1.73  |
| 0.133 | 1.42  | 1.133 | 13.41 | 2.133 | 3.64  | 3.13 | 1.73  |
| 0.167 | 1.42  | 1.167 | 13.41 | 2.167 | 3.64  | 3.17 | 1.73  |
| 0.200 | 1.64  | 1.200 | 58.68 | 2.200 | 3.05  | 3.20 | 1.60  |
| 0.233 | 1.64  | 1.233 | 58.68 | 2.233 | 3.05  | 3.23 | 1.60  |
| 0.267 | 1.64  | 1.267 | 58.68 | 2.267 | 3.05  | 3.27 | 1.60  |
| 0.300 | 1.64  | 1.300 | 58.68 | 2.300 | 3.05  | 3.30 | 1.60  |
| 0.333 | 1.64  | 1.333 | 58.68 | 2.333 | 3.05  | 3.33 | 1.60  |
| 0.367 | 1.96  | 1.367 | 17.94 | 2.367 | 2.64  | 3.37 | 1.48  |
| 0.400 | 1.96  | 1.400 | 17.94 | 2.400 | 2.64  | 3.40 | 1.48  |
| 0.433 | 1.96  | 1.433 | 17.94 | 2.433 | 2.64  | 3.43 | 1.48  |
| 0.467 | 1.96  | 1.467 | 17.94 | 2.467 | 2.64  | 3.47 | 1.48  |
| 0.500 | 1.96  | 1.500 | 17.94 | 2.500 | 2.64  | 3.50 | 1.48  |
| 0.533 | 2.45  | 1.533 | 9.06  | 2.533 | 2.32  | 3.53 | 1.39  |
| 0.567 | 2.45  | 1.567 | 9.06  | 2.567 | 2.32  | 3.57 | 1.39  |
| 0.600 | 2.45  | 1.600 | 9.06  | 2.600 | 2.32  | 3.60 | 1.39  |
| 0.633 | 2.45  | 1.633 | 9.06  | 2.633 | 2.32  | 3.63 | 1.39  |
| 0.667 | 2.45  | 1.667 | 9.06  | 2.667 | 2.32  | 3.67 | 1.39  |
| 0.700 | 3.30  | 1.700 | 6.03  | 2.700 | 2.08  | 3.70 | 1.30  |
| 0.733 | 3.30  | 1.733 | 6.03  | 2.733 | 2.08  | 3.73 | 1.30  |
| 0.767 | 3.30  | 1.767 | 6.03  | 2.767 | 2.08  | 3.77 | 1.30  |
| 0.800 | 3.30  | 1.800 | 6.03  | 2.800 | 2.08  | 3.80 | 1.30  |
| 0.833 | 3.30  | 1.833 | 6.03  | 2.833 | 2.08  | 3.83 | 1.30  |
| 0.867 | 5.22  | 1.867 | 4.53  | 2.867 | 1.89  | 3.87 | 1.23  |
| 0.900 | 5.22  | 1.900 | 4.53  | 2.900 | 1.89  | 3.90 | 1.23  |
| 0.933 | 5.22  | 1.933 | 4.53  | 2.933 | 1.89  | 3.93 | 1.23  |
| 0.967 | 5.22  | 1.967 | 4.53  | 2.967 | 1.89  | 3.97 | 1.23  |
| 1.000 | 5.22  | 2.000 | 4.53  | 3.000 | 1.89  | 4.00 | 1.23  |

Unit Hyd Qpeak (cms)= 1.809

PEAK FLOW (cms)= 0.094 (i)  
TIME TO PEAK (hrs)= 1.533  
RUNOFF VOLUME (mm)= 4.216  
TOTAL RAINFALL (mm)= 24.998  
RUNOFF COEFFICIENT = 0.169

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |           |             |             |           |  |  |  |
|-------------------|-----------|-------------|-------------|-----------|--|--|--|
| ADD HYD ( 0040)   |           |             |             |           |  |  |  |
| 1 + 2 = 3         | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |  |  |  |
| ID1= 1 ( 0401):   | 5.97      | 0.074       | 1.53        | 4.22      |  |  |  |
| + ID2= 2 ( 0402): | 7.58      | 0.094       | 1.53        | 4.22      |  |  |  |
| ID = 3 ( 0040):   | 13.55     | 0.169       | 1.53        | 4.22      |  |  |  |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |               |      |                      |      |  |  |  |
|-------------------|---------------|------|----------------------|------|--|--|--|
| CALIB             |               |      |                      |      |  |  |  |
| NASHYD ( 0403)    | Area (ha)=    | 2.87 | Curve Number (CN)=   | 81.0 |  |  |  |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 6.80 | # of Linear Res.(N)= | 3.00 |  |  |  |
|                   | U.H. Tp(hrs)= | 0.15 |                      |      |  |  |  |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME  | RAIN  | TIME  | RAIN  | TIME  | RAIN  | TIME | RAIN  |
|-------|-------|-------|-------|-------|-------|------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.033 | 1.42  | 1.033 | 13.41 | 2.033 | 3.64  | 3.03 | 1.73  |
| 0.067 | 1.42  | 1.067 | 13.41 | 2.067 | 3.64  | 3.07 | 1.73  |
| 0.100 | 1.42  | 1.100 | 13.41 | 2.100 | 3.64  | 3.10 | 1.73  |
| 0.133 | 1.42  | 1.133 | 13.41 | 2.133 | 3.64  | 3.13 | 1.73  |
| 0.167 | 1.42  | 1.167 | 13.41 | 2.167 | 3.64  | 3.17 | 1.73  |
| 0.200 | 1.64  | 1.200 | 58.68 | 2.200 | 3.05  | 3.20 | 1.60  |
| 0.233 | 1.64  | 1.233 | 58.68 | 2.233 | 3.05  | 3.23 | 1.60  |
| 0.267 | 1.64  | 1.267 | 58.68 | 2.267 | 3.05  | 3.27 | 1.60  |
| 0.300 | 1.64  | 1.300 | 58.68 | 2.300 | 3.05  | 3.30 | 1.60  |
| 0.333 | 1.64  | 1.333 | 58.68 | 2.333 | 3.05  | 3.33 | 1.60  |
| 0.367 | 1.96  | 1.367 | 17.94 | 2.367 | 2.64  | 3.37 | 1.48  |
| 0.400 | 1.96  | 1.400 | 17.94 | 2.400 | 2.64  | 3.40 | 1.48  |
| 0.433 | 1.96  | 1.433 | 17.94 | 2.433 | 2.64  | 3.43 | 1.48  |
| 0.467 | 1.96  | 1.467 | 17.94 | 2.467 | 2.64  | 3.47 | 1.48  |
| 0.500 | 1.96  | 1.500 | 17.94 | 2.500 | 2.64  | 3.50 | 1.48  |
| 0.533 | 2.45  | 1.533 | 9.06  | 2.533 | 2.32  | 3.53 | 1.39  |
| 0.567 | 2.45  | 1.567 | 9.06  | 2.567 | 2.32  | 3.57 | 1.39  |
| 0.600 | 2.45  | 1.600 | 9.06  | 2.600 | 2.32  | 3.60 | 1.39  |
| 0.633 | 2.45  | 1.633 | 9.06  | 2.633 | 2.32  | 3.63 | 1.39  |
| 0.667 | 2.45  | 1.667 | 9.06  | 2.667 | 2.32  | 3.67 | 1.39  |

| TIME  | RAIN  | TIME  | RAIN  | TIME  | RAIN  | TIME | RAIN  |
|-------|-------|-------|-------|-------|-------|------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.033 | 1.42  | 1.033 | 13.41 | 2.033 | 3.64  | 3.03 | 1.73  |
| 0.067 | 1.42  | 1.067 | 13.41 | 2.067 | 3.64  | 3.07 | 1.73  |
| 0.100 | 1.42  | 1.100 | 13.41 | 2.100 | 3.64  | 3.10 | 1.73  |
| 0.133 | 1.42  | 1.133 | 13.41 | 2.133 | 3.64  | 3.13 | 1.73  |
| 0.167 | 1.42  | 1.167 | 13.41 | 2.167 | 3.64  | 3.17 | 1.73  |
| 0.200 | 1.64  | 1.200 | 58.68 | 2.200 | 3.05  | 3.20 | 1.60  |
| 0.233 | 1.64  | 1.233 | 58.68 | 2.233 | 3.05  | 3.23 | 1.60  |
| 0.267 | 1.64  | 1.267 | 58.68 | 2.267 | 3.05  | 3.27 | 1.60  |
| 0.300 | 1.64  | 1.300 | 58.68 | 2.300 | 3.05  | 3.30 | 1.60  |
| 0.333 | 1.64  | 1.333 | 58.68 | 2.333 | 3.05  | 3.33 | 1.60  |
| 0.367 | 1.96  | 1.367 | 17.94 | 2.367 | 2.64  | 3.37 | 1.48  |
| 0.400 | 1.96  | 1.400 | 17.94 | 2.400 | 2.64  | 3.40 | 1.48  |
| 0.433 | 1.96  | 1.433 | 17.94 | 2.433 | 2.64  | 3.43 | 1.48  |
| 0.467 | 1.96  | 1.467 | 17.94 | 2.467 | 2.64  | 3.47 | 1.48  |
| 0.500 | 1.96  | 1.500 | 17.94 | 2.500 | 2.64  | 3.50 | 1.48  |
| 0.533 | 2.45  | 1.533 | 9.06  | 2.533 | 2.32  | 3.53 | 1.39  |
| 0.567 | 2.45  | 1.567 | 9.06  | 2.567 | 2.32  | 3.57 | 1.39  |
| 0.600 | 2.45  | 1.600 | 9.06  | 2.600 | 2.32  | 3.60 | 1.39  |
| 0.633 | 2.45  | 1.633 | 9.06  | 2.633 | 2.32  | 3.63 | 1.39  |
| 0.667 | 2.45  | 1.667 | 9.06  | 2.667 | 2.32  | 3.67 | 1.39  |
| 0.700 | 3.30  | 1.700 | 6.03  | 2.700 | 2.08  | 3.70 | 1.30  |
| 0.733 | 3.30  | 1.733 | 6.03  | 2.733 | 2.08  | 3.73 | 1.30  |
| 0.767 | 3.30  | 1.767 | 6.03  | 2.767 | 2.08  | 3.77 | 1.30  |
| 0.800 | 3.30  | 1.800 | 6.03  | 2.800 | 2.08  | 3.80 | 1.30  |
| 0.833 | 3.30  | 1.833 | 6.03  | 2.833 | 2.08  | 3.83 | 1.30  |
| 0.867 | 5.22  | 1.867 | 4.53  | 2.867 | 1.89  | 3.87 | 1.23  |
| 0.900 | 5.22  | 1.900 | 4.53  | 2.900 | 1.89  | 3.90 | 1.23  |
| 0.933 | 5.22  | 1.933 | 4.53  | 2.933 | 1.89  | 3.93 | 1.23  |
| 0.967 | 5.22  | 1.967 | 4.53  | 2.967 | 1.89  | 3.97 | 1.23  |
| 1.000 | 5.22  | 2.000 | 4.53  | 3.000 | 1.89  | 4.00 | 1.23  |

Unit Hyd Qpeak (cms)= 0.162

PEAK FLOW (cms)= 0.017 (i)  
TIME TO PEAK (hrs)= 1.567  
RUNOFF VOLUME (mm)= 6.628  
TOTAL RAINFALL (mm)= 24.998  
RUNOFF COEFFICIENT = 0.265

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |           |             |             |           |  |  |  |
|-------------------|-----------|-------------|-------------|-----------|--|--|--|
| ADD HYD ( 0041)   |           |             |             |           |  |  |  |
| 1 + 2 = 3         | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |  |  |  |
| ID1= 1 ( 0403):   | 2.87      | 0.037       | 1.53        | 4.26      |  |  |  |
| + ID2= 2 ( 0404): | 0.85      | 0.017       | 1.57        | 6.63      |  |  |  |
| ID = 3 ( 0041):   | 3.72      | 0.054       | 1.53        | 4.80      |  |  |  |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |           |             |             |           |  |  |  |
|-------------------|-----------|-------------|-------------|-----------|--|--|--|
| ADD HYD ( 0042)   |           |             |             |           |  |  |  |
| 1 + 2 = 3         | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |  |  |  |
| ID1= 1 ( 0040):   | 13.55     | 0.169       | 1.53        | 4.22      |  |  |  |
| + ID2= 2 ( 0041): | 3.72      | 0.054       | 1.53        | 4.80      |  |  |  |
| ID = 3 ( 0042):   | 17.27     | 0.222       | 1.53        | 4.34      |  |  |  |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                  |               |                 |               |                 |  |  |  |
|------------------|---------------|-----------------|---------------|-----------------|--|--|--|
| RESERVOIR( 0202) |               |                 |               |                 |  |  |  |
| IN= 2--> OUT= 1  |               |                 |               |                 |  |  |  |
| DT= 2.0 min      |               |                 |               |                 |  |  |  |
|                  | OUTFLOW (cms) | STORAGE (ha.m.) | OUTFLOW (cms) | STORAGE (ha.m.) |  |  |  |
|                  | 0.0000        | 0.0000          | 1.2780        | 0.5195          |  |  |  |
|                  | 0.0070        | 0.0918          | 1.4910        | 0.6170          |  |  |  |
|                  | 0.0500        | 0.1672          | 1.7350        | 0.7524          |  |  |  |
|                  | 0.1740        | 0.2483          | 2.7110        | 0.8941          |  |  |  |

ID1= 1 ( 0202): 17.27 0.005 4.33 3.60  
+ ID2= 2 ( 0033): 14.33 0.038 1.97 2.89  
=====

ID = 3 ( 0080): 31.60 0.041 1.97 3.28

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U A A L  
VV I SSSS UUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM  
O O T T H H Y Y M M O O  
O O T T H H Y Y M M O O  
000 T T H H Y Y M M 000

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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde9009059\4a6bb01c-a1a7-44b7-a05e-7111c206fcd3\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde9009059\4a6bb01c-a1a7-44b7-a05e-7111c206fcd3\sc

DATE: 09/21/2025 TIME: 03:01:39

USER:

COMMENTS: \_\_\_\_\_

\*\* SIMULATION : 25yr 24hr 12min SCS Type II ( \*\*

MASS STORM  
Filename: C:\Users\hfaulkner\AppData\Local\Temp\732e9928-e126-4c89-9ccf-fd4c260976d9\334b9125  
Comments: 24-hour SCS Type-II Mass Storm Curve  
Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

| TIME | RAIN  | TIME  | RAIN   | TIME  | RAIN  | TIME  | RAIN  |
|------|-------|-------|--------|-------|-------|-------|-------|
| hrs  | mm/hr | hrs   | mm/hr  | hrs   | mm/hr | hrs   | mm/hr |
| 0.00 | 1.10  | 6.00  | 2.20   | 12.00 | 22.02 | 18.00 | 1.65  |
| 0.20 | 1.10  | 6.20  | 2.20   | 12.20 | 13.76 | 18.20 | 1.65  |
| 0.40 | 1.10  | 6.40  | 2.20   | 12.40 | 9.91  | 18.40 | 2.20  |
| 0.60 | 1.10  | 6.60  | 2.20   | 12.60 | 9.36  | 18.60 | 1.65  |
| 0.80 | 1.10  | 6.80  | 2.20   | 12.80 | 6.61  | 18.80 | 1.65  |
| 1.00 | 1.10  | 7.00  | 2.20   | 13.00 | 5.50  | 19.00 | 2.20  |
| 1.20 | 1.10  | 7.20  | 2.20   | 13.20 | 5.50  | 19.20 | 1.65  |
| 1.40 | 1.10  | 7.40  | 2.20   | 13.40 | 5.50  | 19.40 | 2.20  |
| 1.60 | 1.10  | 7.60  | 2.20   | 13.60 | 5.50  | 19.60 | 1.65  |
| 1.80 | 1.10  | 7.80  | 2.20   | 13.80 | 5.51  | 19.80 | 2.20  |
| 2.00 | 1.10  | 8.00  | 3.30   | 14.00 | 3.30  | 20.00 | 1.65  |
| 2.20 | 1.10  | 8.20  | 3.30   | 14.20 | 3.30  | 20.20 | 1.65  |
| 2.40 | 1.10  | 8.40  | 3.30   | 14.40 | 3.30  | 20.40 | 1.10  |
| 2.60 | 1.10  | 8.60  | 3.30   | 14.60 | 3.30  | 20.60 | 1.65  |
| 2.80 | 1.10  | 8.80  | 3.30   | 14.80 | 3.30  | 20.80 | 1.65  |
| 3.00 | 1.10  | 9.00  | 3.30   | 15.00 | 2.75  | 21.00 | 1.10  |
| 3.20 | 1.10  | 9.20  | 3.30   | 15.20 | 2.75  | 21.20 | 1.65  |
| 3.40 | 1.10  | 9.40  | 3.30   | 15.40 | 2.75  | 21.40 | 1.10  |
| 3.60 | 1.10  | 9.60  | 3.30   | 15.60 | 2.75  | 21.60 | 1.65  |
| 3.80 | 1.10  | 9.80  | 3.30   | 15.80 | 2.75  | 21.80 | 1.10  |
| 4.00 | 2.20  | 10.00 | 6.06   | 16.00 | 2.75  | 22.00 | 1.10  |
| 4.20 | 2.20  | 10.20 | 6.06   | 16.20 | 2.75  | 22.20 | 1.65  |
| 4.40 | 2.20  | 10.40 | 6.06   | 16.40 | 2.75  | 22.40 | 1.10  |
| 4.60 | 2.20  | 10.60 | 6.06   | 16.60 | 2.75  | 22.60 | 1.65  |
| 4.80 | 2.20  | 10.80 | 6.06   | 16.80 | 1.65  | 22.80 | 1.10  |
| 5.00 | 2.20  | 11.00 | 8.26   | 17.00 | 1.65  | 23.00 | 1.10  |
| 5.20 | 2.20  | 11.20 | 12.11  | 17.20 | 2.20  | 23.20 | 1.10  |
| 5.40 | 2.20  | 11.40 | 29.18  | 17.40 | 1.65  | 23.40 | 1.65  |
| 5.60 | 2.20  | 11.60 | 60.56  | 17.60 | 2.20  | 23.60 | 1.10  |
| 5.80 | 2.20  | 11.80 | 123.86 | 17.80 | 1.65  | 23.80 | 1.10  |

CALIB  
NASHYD ( 0301)  
ID= 1 DT= 2.0 min  
Area (ha)= 1.19 Curve Number (CN)= 81.0  
Ia (mm)= 6.80 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.24

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME  | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
|-------|-------|-------|-------|--------|-------|-------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033 | 1.10  | 6.033 | 2.20  | 12.033 | 22.02 | 18.03 | 1.65  |
| 0.067 | 1.10  | 6.067 | 2.20  | 12.067 | 22.02 | 18.07 | 1.65  |
| 0.100 | 1.10  | 6.100 | 2.20  | 12.100 | 22.02 | 18.10 | 1.65  |
| 0.133 | 1.10  | 6.133 | 2.20  | 12.133 | 22.02 | 18.13 | 1.65  |
| 0.167 | 1.10  | 6.167 | 2.20  | 12.167 | 22.02 | 18.17 | 1.65  |
| 0.200 | 1.10  | 6.200 | 2.20  | 12.200 | 22.01 | 18.20 | 1.65  |
| 0.233 | 1.10  | 6.233 | 2.20  | 12.233 | 13.76 | 18.23 | 1.65  |
| 0.267 | 1.10  | 6.267 | 2.20  | 12.267 | 13.76 | 18.27 | 1.65  |
| 0.300 | 1.10  | 6.300 | 2.20  | 12.300 | 13.76 | 18.30 | 1.65  |
| 0.333 | 1.10  | 6.333 | 2.20  | 12.333 | 13.76 | 18.33 | 1.65  |
| 0.367 | 1.10  | 6.367 | 2.20  | 12.367 | 13.76 | 18.37 | 1.65  |
| 0.400 | 1.10  | 6.400 | 2.20  | 12.400 | 13.76 | 18.40 | 1.65  |
| 0.433 | 1.10  | 6.433 | 2.20  | 12.433 | 9.91  | 18.43 | 2.20  |
| 0.467 | 1.10  | 6.467 | 2.20  | 12.467 | 9.91  | 18.47 | 2.20  |
| 0.500 | 1.10  | 6.500 | 2.20  | 12.500 | 9.91  | 18.50 | 2.20  |
| 0.533 | 1.10  | 6.533 | 2.20  | 12.533 | 9.91  | 18.53 | 2.20  |
| 0.567 | 1.10  | 6.567 | 2.20  | 12.567 | 9.91  | 18.57 | 2.20  |
| 0.600 | 1.10  | 6.600 | 2.20  | 12.600 | 9.91  | 18.60 | 2.20  |
| 0.633 | 1.10  | 6.633 | 2.20  | 12.633 | 9.36  | 18.63 | 1.65  |
| 0.667 | 1.10  | 6.667 | 2.20  | 12.667 | 9.36  | 18.67 | 1.65  |
| 0.700 | 1.10  | 6.700 | 2.20  | 12.700 | 9.36  | 18.70 | 1.65  |
| 0.733 | 1.10  | 6.733 | 2.20  | 12.733 | 9.36  | 18.73 | 1.65  |

|       |      |       |      |        |      |       |      |
|-------|------|-------|------|--------|------|-------|------|
| 0.767 | 1.10 | 6.767 | 2.20 | 12.767 | 9.36 | 18.77 | 1.65 |
| 0.800 | 1.10 | 6.800 | 2.20 | 12.800 | 9.35 | 18.80 | 1.65 |
| 0.833 | 1.10 | 6.833 | 2.20 | 12.833 | 6.61 | 18.83 | 1.65 |
| 0.867 | 1.10 | 6.867 | 2.20 | 12.867 | 6.61 | 18.87 | 1.65 |
| 0.900 | 1.10 | 6.900 | 2.20 | 12.900 | 6.61 | 18.90 | 1.65 |
| 0.933 | 1.10 | 6.933 | 2.20 | 12.933 | 6.61 | 18.93 | 1.65 |
| 0.967 | 1.10 | 6.967 | 2.20 | 12.967 | 6.61 | 18.97 | 1.65 |
| 1.000 | 1.10 | 7.000 | 2.20 | 13.000 | 6.60 | 19.00 | 1.65 |
| 1.033 | 1.10 | 7.033 | 2.20 | 13.033 | 5.50 | 19.03 | 2.20 |
| 1.067 | 1.10 | 7.067 | 2.20 | 13.067 | 5.50 | 19.07 | 2.20 |
| 1.100 | 1.10 | 7.100 | 2.20 | 13.100 | 5.50 | 19.10 | 2.20 |
| 1.133 | 1.10 | 7.133 | 2.20 | 13.133 | 5.50 | 19.13 | 2.20 |
| 1.167 | 1.10 | 7.167 | 2.20 | 13.167 | 5.50 | 19.17 | 2.20 |
| 1.200 | 1.10 | 7.200 | 2.20 | 13.200 | 5.51 | 19.20 | 2.20 |
| 1.233 | 1.10 | 7.233 | 2.20 | 13.233 | 5.50 | 19.23 | 1.65 |
| 1.267 | 1.10 | 7.267 | 2.20 | 13.267 | 5.50 | 19.27 | 1.65 |
| 1.300 | 1.10 | 7.300 | 2.20 | 13.300 | 5.50 | 19.30 | 1.65 |
| 1.333 | 1.10 | 7.333 | 2.20 | 13.333 | 5.50 | 19.33 | 1.65 |
| 1.367 | 1.10 | 7.367 | 2.20 | 13.367 | 5.50 | 19.37 | 1.65 |
| 1.400 | 1.10 | 7.400 | 2.20 | 13.400 | 5.51 | 19.40 | 1.65 |
| 1.433 | 1.10 | 7.433 | 2.20 | 13.433 | 5.50 | 19.43 | 2.20 |
| 1.467 | 1.10 | 7.467 | 2.20 | 13.467 | 5.50 | 19.47 | 2.20 |
| 1.500 | 1.10 | 7.500 | 2.20 | 13.500 | 5.50 | 19.50 | 2.20 |
| 1.533 | 1.10 | 7.533 | 2.20 | 13.533 | 5.50 | 19.53 | 2.20 |
| 1.567 | 1.10 | 7.567 | 2.20 | 13.567 | 5.50 | 19.57 | 2.20 |
| 1.600 | 1.10 | 7.600 | 2.20 | 13.600 | 7.51 | 19.60 | 2.20 |
| 1.633 | 1.10 | 7.633 | 2.20 | 13.633 | 5.50 | 19.63 | 1.65 |
| 1.667 | 1.10 | 7.667 | 2.20 | 13.667 | 5.50 | 19.67 | 1.65 |
| 1.700 | 1.10 | 7.700 | 2.20 | 13.700 | 5.50 | 19.70 | 1.65 |
| 1.733 | 1.10 | 7.733 | 2.20 | 13.733 | 5.50 | 19.73 | 1.65 |
| 1.767 | 1.10 | 7.767 | 2.20 | 13.767 | 5.50 | 19.77 | 1.65 |
| 1.800 | 1.10 | 7.800 | 2.20 | 13.800 | 5.51 | 19.80 | 1.65 |
| 1.833 | 1.10 | 7.833 | 2.20 | 13.833 | 5.51 | 19.83 | 2.20 |
| 1.867 | 1.10 | 7.867 | 2.20 | 13.867 | 5.51 | 19.87 | 2.20 |
| 1.900 | 1.10 | 7.900 | 2.20 | 13.900 | 5.51 | 19.90 | 2.20 |
| 1.933 | 1.10 | 7.933 | 2.20 | 13.933 | 5.51 | 19.93 | 2.20 |
| 1.967 | 1.10 | 7.967 | 2.20 | 13.967 | 5.51 | 19.97 | 2.20 |
| 2.000 | 1.10 | 8.000 | 2.20 | 14.000 | 5.50 | 20.00 | 2.20 |
| 2.033 | 1.10 | 8.033 | 3.30 | 14.033 | 3.30 | 20.03 | 1.65 |
| 2.067 | 1.10 | 8.067 | 3.30 | 14.067 | 3.30 | 20.07 | 1.65 |
| 2.100 | 1.10 | 8.100 | 3.30 | 14.100 | 3.30 | 20.10 | 1.65 |
| 2.133 | 1.10 | 8.133 | 3.30 | 14.133 | 3.30 | 20.13 | 1.65 |
| 2.167 | 1.10 | 8.167 | 3.30 | 14.167 | 3.30 | 20.17 | 1.65 |
| 2.200 | 1.10 | 8.200 | 3.30 | 14.200 | 3.30 | 20.20 | 1.65 |
| 2.233 | 1.10 | 8.233 | 3.30 | 14.233 | 3.30 | 20.23 | 1.65 |
| 2.267 | 1.10 | 8.267 | 3.30 | 14.267 | 3.30 | 20.27 | 1.65 |
| 2.300 | 1.10 | 8.300 | 3.30 | 14.300 | 3.30 | 20.30 | 1.65 |
| 2.333 | 1.10 | 8.333 | 3.30 | 14.333 | 3.30 | 20.33 | 1.65 |
| 2.367 | 1.10 | 8.367 | 3.30 | 14.367 | 3.30 | 20.37 | 1.65 |
| 2.400 | 1.10 | 8.400 | 3.30 | 14.400 | 3.30 | 20.40 | 1.65 |
| 2.433 | 1.10 | 8.433 | 3.30 | 14.433 | 3.30 | 20.43 | 1.10 |
| 2.467 | 1.10 | 8.467 | 3.30 | 14.467 | 3.30 | 20.47 | 1.10 |
| 2.500 | 1.10 | 8.500 | 3.30 | 14.500 | 3.30 | 20.50 | 1.10 |
| 2.533 | 1.10 | 8.533 | 3.30 | 14.533 | 3.30 | 20.53 | 1.10 |
| 2.567 | 1.10 | 8.567 | 3.30 | 14.567 | 3.30 | 20.57 | 1.10 |
| 2.600 | 1.10 | 8.600 | 3.30 | 14.600 | 3.30 | 20.60 | 1.10 |
| 2.633 | 1.10 | 8.633 | 3.30 | 14.633 | 3.30 | 20.63 | 1.65 |
| 2.667 | 1.10 | 8.667 | 3.30 | 14.667 | 3.30 | 20.67 | 1.65 |
| 2.700 | 1.10 | 8.700 | 3.30 | 14.700 | 3.30 | 20.70 | 1.65 |
| 2.733 | 1.10 | 8.733 | 3.30 | 14.733 | 3.30 | 20.73 | 1.65 |
| 2.767 | 1.10 | 8.767 | 3.30 | 14.767 | 3.30 | 20.77 | 1.65 |
| 2.800 | 1.10 | 8.800 | 3.30 | 14.800 | 3.30 | 20.80 | 1.65 |
| 2.833 | 1.10 | 8.833 | 3.30 | 14.833 | 3.30 | 20.83 | 1.65 |
| 2.867 | 1.10 | 8.867 | 3.30 | 14.867 | 3.30 | 20.87 | 1.65 |
| 2.900 | 1.10 | 8.900 | 3.30 | 14.900 | 3.30 | 20.90 | 1.65 |
| 2.933 | 1.10 | 8.933 | 3.30 | 14.933 | 3.30 | 20.93 | 1.65 |
| 2.967 | 1.10 | 8.967 | 3.30 | 14.967 | 3.30 | 20.97 | 1.65 |
| 3.000 | 1.10 | 9.000 | 3.30 | 15.000 | 3.30 | 21.00 | 1.65 |
| 3.033 | 1.10 | 9.033 | 3.30 | 15.033 | 2.75 | 21.03 | 1.10 |
| 3.067 | 1.10 | 9.067 | 3.30 | 15.067 | 2.75 | 21.07 | 1.10 |
| 3.100 | 1.10 | 9.100 | 3.30 | 15.100 | 2.75 | 21.10 | 1.10 |
| 3.133 | 1.10 | 9.133 | 3.30 | 15.133 | 2.75 | 21.13 | 1.10 |
| 3.167 | 1.10 | 9.167 | 3.30 | 15.167 | 2.75 | 21.17 | 1.10 |
| 3.200 | 1.10 | 9.200 | 3.30 | 15.200 | 2.75 | 21.20 | 1.10 |
| 3.233 | 1.10 | 9.233 | 3.30 | 15.233 | 2.75 | 21.23 | 1.65 |
| 3.267 | 1.10 | 9.267 | 3.30 | 15.267 | 2.75 | 21.27 | 1.65 |
| 3.300 | 1.10 | 9.300 | 3.30 | 15.300 | 2.75 | 21.30 | 1.65 |
| 3.333 | 1.10 | 9.333 | 3.30 | 15.333 | 2.75 | 21.33 | 1.65 |
| 3.367 | 1.10 | 9.367 | 3.30 | 15.367 | 2.75 | 21.37 | 1.65 |
| 3.400 | 1.10 | 9.400 | 3.30 | 15.400 | 2.75 | 21.40 | 1.65 |
| 3.433 | 1.10 | 9.433 | 3.30 | 15.433 | 2.75 | 21.43 | 1.10 |
| 3.467 | 1.10 | 9.467 | 3.30 | 15.467 | 2.75 | 21.47 | 1.10 |
| 3.500 | 1.10 | 9.500 | 3.30 |        |      |       |      |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 5.000 | 2.20 | 11.000 | 6.06   | 17.000 | 1.65 | 23.00 | 1.10 |
| 5.033 | 2.20 | 11.033 | 8.26   | 17.033 | 1.65 | 23.03 | 1.10 |
| 5.067 | 2.20 | 11.067 | 8.26   | 17.067 | 1.65 | 23.07 | 1.10 |
| 5.100 | 2.20 | 11.100 | 8.26   | 17.100 | 1.65 | 23.10 | 1.10 |
| 5.133 | 2.20 | 11.133 | 8.26   | 17.133 | 1.65 | 23.13 | 1.10 |
| 5.167 | 2.20 | 11.167 | 8.26   | 17.167 | 1.65 | 23.17 | 1.10 |
| 5.200 | 2.20 | 11.200 | 8.26   | 17.200 | 1.65 | 23.20 | 1.10 |
| 5.233 | 2.20 | 11.233 | 12.11  | 17.233 | 2.20 | 23.23 | 1.10 |
| 5.267 | 2.20 | 11.267 | 12.11  | 17.267 | 2.20 | 23.27 | 1.10 |
| 5.300 | 2.20 | 11.300 | 12.11  | 17.300 | 2.20 | 23.30 | 1.10 |
| 5.333 | 2.20 | 11.333 | 12.11  | 17.333 | 2.20 | 23.33 | 1.10 |
| 5.367 | 2.20 | 11.367 | 12.11  | 17.367 | 2.20 | 23.37 | 1.10 |
| 5.400 | 2.20 | 11.400 | 12.13  | 17.400 | 2.20 | 23.40 | 1.10 |
| 5.433 | 2.20 | 11.433 | 29.18  | 17.433 | 1.65 | 23.43 | 1.65 |
| 5.467 | 2.20 | 11.467 | 29.18  | 17.467 | 1.65 | 23.47 | 1.65 |
| 5.500 | 2.20 | 11.500 | 29.18  | 17.500 | 1.65 | 23.50 | 1.65 |
| 5.533 | 2.20 | 11.533 | 29.18  | 17.533 | 1.65 | 23.53 | 1.65 |
| 5.567 | 2.20 | 11.567 | 29.18  | 17.567 | 1.65 | 23.57 | 1.65 |
| 5.600 | 2.20 | 11.600 | 29.22  | 17.600 | 1.65 | 23.60 | 1.65 |
| 5.633 | 2.20 | 11.633 | 60.56  | 17.633 | 2.20 | 23.63 | 1.10 |
| 5.667 | 2.20 | 11.667 | 60.56  | 17.667 | 2.20 | 23.67 | 1.10 |
| 5.700 | 2.20 | 11.700 | 60.56  | 17.700 | 2.20 | 23.70 | 1.10 |
| 5.733 | 2.20 | 11.733 | 60.56  | 17.733 | 2.20 | 23.73 | 1.10 |
| 5.767 | 2.20 | 11.767 | 60.56  | 17.767 | 2.20 | 23.77 | 1.10 |
| 5.800 | 2.20 | 11.800 | 60.64  | 17.800 | 2.20 | 23.80 | 1.10 |
| 5.833 | 2.20 | 11.833 | 123.86 | 17.833 | 1.65 | 23.83 | 1.10 |
| 5.867 | 2.20 | 11.867 | 123.86 | 17.867 | 1.65 | 23.87 | 1.10 |
| 5.900 | 2.20 | 11.900 | 123.86 | 17.900 | 1.65 | 23.90 | 1.10 |
| 5.933 | 2.20 | 11.933 | 123.86 | 17.933 | 1.65 | 23.93 | 1.10 |
| 5.967 | 2.20 | 11.967 | 123.86 | 17.967 | 1.65 | 23.97 | 1.10 |
| 6.000 | 2.20 | 12.000 | 123.72 | 18.000 | 1.65 | 24.00 | 1.10 |

Unit Hyd Qpeak (cms)= 0.189

PEAK FLOW (cms)= 0.173 (i)  
TIME TO PEAK (hrs)= 12.133  
RUNOFF VOLUME (mm)= 65.511  
TOTAL RAINFALL (mm)= 110.099  
RUNOFF COEFFICIENT = 0.595

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |                    |                           |  |
|-------------------|--------------------|---------------------------|--|
| CALIB             |                    |                           |  |
| NASHYD ( 0302)    | Area (ha)= 2.75    | Curve Number (CN)= 81.0   |  |
| ID= 1 DT= 2.0 min | Ia (mm)= 6.80      | # of Linear Res.(N)= 3.00 |  |
|                   | U.H. Tp(hrs)= 0.21 |                           |  |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ---- TRANSFORMED HYETOGRAPH ---- |       |       |       |        |       |       |       |
|----------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                             | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                              | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                            | 1.10  | 6.033 | 2.20  | 12.033 | 22.02 | 18.03 | 1.65  |
| 0.067                            | 1.10  | 6.067 | 2.20  | 12.067 | 22.02 | 18.07 | 1.65  |
| 0.100                            | 1.10  | 6.100 | 2.20  | 12.100 | 22.02 | 18.10 | 1.65  |
| 0.133                            | 1.10  | 6.133 | 2.20  | 12.133 | 22.02 | 18.13 | 1.65  |
| 0.167                            | 1.10  | 6.167 | 2.20  | 12.167 | 22.02 | 18.17 | 1.65  |
| 0.200                            | 1.10  | 6.200 | 2.20  | 12.200 | 22.01 | 18.20 | 1.65  |
| 0.233                            | 1.10  | 6.233 | 2.20  | 12.233 | 13.76 | 18.23 | 1.65  |
| 0.267                            | 1.10  | 6.267 | 2.20  | 12.267 | 13.76 | 18.27 | 1.65  |
| 0.300                            | 1.10  | 6.300 | 2.20  | 12.300 | 13.76 | 18.30 | 1.65  |
| 0.333                            | 1.10  | 6.333 | 2.20  | 12.333 | 13.76 | 18.33 | 1.65  |
| 0.367                            | 1.10  | 6.367 | 2.20  | 12.367 | 13.76 | 18.37 | 1.65  |
| 0.400                            | 1.10  | 6.400 | 2.20  | 12.400 | 13.76 | 18.40 | 1.65  |
| 0.433                            | 1.10  | 6.433 | 2.20  | 12.433 | 9.91  | 18.43 | 2.20  |
| 0.467                            | 1.10  | 6.467 | 2.20  | 12.467 | 9.91  | 18.47 | 2.20  |
| 0.500                            | 1.10  | 6.500 | 2.20  | 12.500 | 9.91  | 18.50 | 2.20  |
| 0.533                            | 1.10  | 6.533 | 2.20  | 12.533 | 9.91  | 18.53 | 2.20  |
| 0.567                            | 1.10  | 6.567 | 2.20  | 12.567 | 9.91  | 18.57 | 2.20  |
| 0.600                            | 1.10  | 6.600 | 2.20  | 12.600 | 9.91  | 18.60 | 2.20  |
| 0.633                            | 1.10  | 6.633 | 2.20  | 12.633 | 9.36  | 18.63 | 1.65  |
| 0.667                            | 1.10  | 6.667 | 2.20  | 12.667 | 9.36  | 18.67 | 1.65  |
| 0.700                            | 1.10  | 6.700 | 2.20  | 12.700 | 9.36  | 18.70 | 1.65  |
| 0.733                            | 1.10  | 6.733 | 2.20  | 12.733 | 9.36  | 18.73 | 1.65  |
| 0.767                            | 1.10  | 6.767 | 2.20  | 12.767 | 9.36  | 18.77 | 1.65  |
| 0.800                            | 1.10  | 6.800 | 2.20  | 12.800 | 9.35  | 18.80 | 1.65  |
| 0.833                            | 1.10  | 6.833 | 2.20  | 12.833 | 6.61  | 18.83 | 1.65  |
| 0.867                            | 1.10  | 6.867 | 2.20  | 12.867 | 6.61  | 18.87 | 1.65  |
| 0.900                            | 1.10  | 6.900 | 2.20  | 12.900 | 6.61  | 18.90 | 1.65  |
| 0.933                            | 1.10  | 6.933 | 2.20  | 12.933 | 6.61  | 18.93 | 1.65  |
| 0.967                            | 1.10  | 6.967 | 2.20  | 12.967 | 6.61  | 18.97 | 1.65  |
| 1.000                            | 1.10  | 7.000 | 2.20  | 13.000 | 6.60  | 19.00 | 1.65  |
| 1.033                            | 1.10  | 7.033 | 2.20  | 13.033 | 5.50  | 19.03 | 2.20  |
| 1.067                            | 1.10  | 7.067 | 2.20  | 13.067 | 5.50  | 19.07 | 2.20  |
| 1.100                            | 1.10  | 7.100 | 2.20  | 13.100 | 5.50  | 19.10 | 2.20  |
| 1.133                            | 1.10  | 7.133 | 2.20  | 13.133 | 5.50  | 19.13 | 2.20  |
| 1.167                            | 1.10  | 7.167 | 2.20  | 13.167 | 5.50  | 19.17 | 2.20  |
| 1.200                            | 1.10  | 7.200 | 2.20  | 13.200 | 5.51  | 19.20 | 2.20  |
| 1.233                            | 1.10  | 7.233 | 2.20  | 13.233 | 5.50  | 19.23 | 1.65  |
| 1.267                            | 1.10  | 7.267 | 2.20  | 13.267 | 5.50  | 19.27 | 1.65  |
| 1.300                            | 1.10  | 7.300 | 2.20  | 13.300 | 5.50  | 19.30 | 1.65  |
| 1.333                            | 1.10  | 7.333 | 2.20  | 13.333 | 5.50  | 19.33 | 1.65  |
| 1.367                            | 1.10  | 7.367 | 2.20  | 13.367 | 5.50  | 19.37 | 1.65  |
| 1.400                            | 1.10  | 7.400 | 2.20  | 13.400 | 5.51  | 19.40 | 1.65  |
| 1.433                            | 1.10  | 7.433 | 2.20  | 13.433 | 5.50  | 19.43 | 2.20  |
| 1.467                            | 1.10  | 7.467 | 2.20  | 13.467 | 5.50  | 19.47 | 2.20  |
| 1.500                            | 1.10  | 7.500 | 2.20  | 13.500 | 5.50  | 19.50 | 2.20  |
| 1.533                            | 1.10  | 7.533 | 2.20  | 13.533 | 5.50  | 19.53 | 2.20  |
| 1.567                            | 1.10  | 7.567 | 2.20  | 13.567 | 5.50  | 19.57 | 2.20  |
| 1.600                            | 1.10  | 7.600 | 2.20  | 13.600 | 5.51  | 19.60 | 2.20  |
| 1.633                            | 1.10  | 7.633 | 2.20  | 13.633 | 5.50  | 19.63 | 1.65  |
| 1.667                            | 1.10  | 7.667 | 2.20  | 13.667 | 5.50  | 19.67 | 1.65  |
| 1.700                            | 1.10  | 7.700 | 2.20  | 13.700 | 5.50  | 19.70 | 1.65  |
| 1.733                            | 1.10  | 7.733 | 2.20  | 13.733 | 5.50  | 19.73 | 1.65  |
| 1.767                            | 1.10  | 7.767 | 2.20  | 13.767 | 5.50  | 19.77 | 1.65  |
| 1.800                            | 1.10  | 7.800 | 2.20  | 13.800 | 5.51  | 19.80 | 1.65  |
| 1.833                            | 1.10  | 7.833 | 2.20  | 13.833 | 5.51  | 19.83 | 2.20  |
| 1.867                            | 1.10  | 7.867 | 2.20  | 13.867 | 5.51  | 19.87 | 2.20  |
| 1.900                            | 1.10  | 7.900 | 2.20  | 13.900 | 5.51  | 19.90 | 2.20  |
| 1.933                            | 1.10  | 7.933 | 2.20  | 13.933 | 5.51  | 19.93 | 2.20  |
| 1.967                            | 1.10  | 7.967 | 2.20  | 13.967 | 5.51  | 19.97 | 2.20  |
| 2.000                            | 1.10  | 8.000 | 2.20  | 14.000 | 5.50  | 20.00 | 2.20  |
| 2.033                            | 1.10  | 8.033 | 3.30  | 14.033 | 3.30  | 20.03 | 1.65  |
| 2.067                            | 1.10  | 8.067 | 3.30  | 14.067 | 3.30  | 20.07 | 1.65  |
| 2.100                            | 1.10  | 8.100 | 3.30  | 14.100 | 3.30  | 20.10 | 1.65  |
| 2.133                            | 1.10  | 8.133 | 3.30  | 14.133 | 3.30  | 20.13 | 1.65  |
| 2.167                            | 1.10  | 8.167 | 3.30  | 14.167 | 3.30  | 20.17 | 1.65  |
| 2.200                            | 1.10  | 8.200 | 3.30  | 14.200 | 3.30  | 20.20 | 1.65  |
| 2.233                            | 1.10  | 8.233 | 3.30  | 14.233 | 3.30  | 20.23 | 1.65  |
| 2.267                            | 1.10  | 8.267 | 3.30  | 14.267 | 3.30  | 20.27 | 1.65  |
| 2.300                            | 1.10  | 8.300 | 3.30  | 14.300 | 3.30  | 20.30 | 1.65  |
| 2.333                            | 1.10  | 8.333 | 3.30  | 14.333 | 3.30  | 20.33 | 1.65  |
| 2.367                            | 1.10  | 8.367 | 3.30  | 14.367 | 3.30  | 20.37 | 1.65  |
| 2.400                            | 1.10  | 8.400 | 3.30  | 14.400 | 3.30  | 20.40 | 1.65  |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 2.433 | 1.10 | 8.433  | 3.30   | 14.433 | 3.30 | 20.43 | 1.10 |
| 2.467 | 1.10 | 8.467  | 3.30   | 14.467 | 3.30 | 20.47 | 1.10 |
| 2.500 | 1.10 | 8.500  | 3.30   | 14.500 | 3.30 | 20.50 | 1.10 |
| 2.533 | 1.10 | 8.533  | 3.30   | 14.533 | 3.30 | 20.53 | 1.10 |
| 2.567 | 1.10 | 8.567  | 3.30   | 14.567 | 3.30 | 20.57 | 1.10 |
| 2.600 | 1.10 | 8.600  | 3.30   | 14.600 | 3.30 | 20.60 | 1.10 |
| 2.633 | 1.10 | 8.633  | 3.30   | 14.633 | 3.30 | 20.63 | 1.65 |
| 2.667 | 1.10 | 8.667  | 3.30   | 14.667 | 3.30 | 20.67 | 1.65 |
| 2.700 | 1.10 | 8.700  | 3.30   | 14.700 | 3.30 | 20.70 | 1.65 |
| 2.733 | 1.10 | 8.733  | 3.30   | 14.733 | 3.30 | 20.73 | 1.65 |
| 2.767 | 1.10 | 8.767  | 3.30   | 14.767 | 3.30 | 20.77 | 1.65 |
| 2.800 | 1.10 | 8.800  | 3.30   | 14.800 | 3.30 | 20.80 | 1.65 |
| 2.833 | 1.10 | 8.833  | 3.30   | 14.833 | 3.30 | 20.83 | 1.65 |
| 2.867 | 1.10 | 8.867  | 3.30   | 14.867 | 3.30 | 20.87 | 1.65 |
| 2.900 | 1.10 | 8.900  | 3.30   | 14.900 | 3.30 | 20.90 | 1.65 |
| 2.933 | 1.10 | 8.933  | 3.30   | 14.933 | 3.30 | 20.93 | 1.65 |
| 2.967 | 1.10 | 8.967  | 3.30   | 14.967 | 3.30 | 20.97 | 1.65 |
| 3.000 | 1.10 | 9.000  | 3.30   | 15.000 | 3.30 | 21.00 | 1.65 |
| 3.033 | 1.10 | 9.033  | 3.30   | 15.033 | 2.75 | 21.03 | 1.10 |
| 3.067 | 1.10 | 9.067  | 3.30   | 15.067 | 2.75 | 21.07 | 1.10 |
| 3.100 | 1.10 | 9.100  | 3.30   | 15.100 | 2.75 | 21.10 | 1.10 |
| 3.133 | 1.10 | 9.133  | 3.30   | 15.133 | 2.75 | 21.13 | 1.10 |
| 3.167 | 1.10 | 9.167  | 3.30   | 15.167 | 2.75 | 21.17 | 1.10 |
| 3.200 | 1.10 | 9.200  | 3.30   | 15.200 | 2.75 | 21.20 | 1.10 |
| 3.233 | 1.10 | 9.233  | 3.30   | 15.233 | 2.75 | 21.23 | 1.65 |
| 3.267 | 1.10 | 9.267  | 3.30   | 15.267 | 2.75 | 21.27 | 1.65 |
| 3.300 | 1.10 | 9.300  | 3.30   | 15.300 | 2.75 | 21.30 | 1.65 |
| 3.333 | 1.10 | 9.333  | 3.30   | 15.333 | 2.75 | 21.33 | 1.65 |
| 3.367 | 1.10 | 9.367  | 3.30   | 15.367 | 2.75 | 21.37 | 1.65 |
| 3.400 | 1.10 | 9.400  | 3.30   | 15.400 | 2.75 | 21.40 | 1.65 |
| 3.433 | 1.10 | 9.433  | 3.30   | 15.433 | 2.75 | 21.43 | 1.10 |
| 3.467 | 1.10 | 9.467  | 3.30   | 15.467 | 2.75 | 21.47 | 1.10 |
| 3.500 | 1.10 | 9.500  | 3.30   | 15.500 | 2.75 | 21.50 | 1.10 |
| 3.533 | 1.10 | 9.533  | 3.30   | 15.533 | 2.75 | 21.53 | 1.10 |
| 3.567 | 1.10 | 9.567  | 3.30   | 15.567 | 2.75 | 21.57 | 1.10 |
| 3.600 | 1.10 | 9.600  | 3.30   | 15.600 | 2.75 | 21.60 | 1.10 |
| 3.633 | 1.10 | 9.633  | 3.30   | 15.633 | 2.75 | 21.63 | 1.65 |
| 3.667 | 1.10 | 9.667  | 3.30   | 15.667 | 2.75 | 21.67 | 1.65 |
| 3.700 | 1.10 | 9.700  | 3.30   | 15.700 | 2.75 | 21.70 | 1.65 |
| 3.733 | 1.10 | 9.733  | 3.30   | 15.733 | 2.75 | 21.73 | 1.65 |
| 3.767 | 1.10 | 9.767  | 3.30   | 15.767 | 2.75 | 21.77 | 1.65 |
| 3.800 | 1.10 | 9.800  | 3.30   | 15.800 | 2.75 | 21.80 | 1.65 |
| 3.833 | 1.10 | 9.833  | 3.30   | 15.833 | 2.75 | 21.83 | 1.10 |
| 3.867 | 1.10 | 9.867  | 3.30   | 15.867 | 2.75 | 21.87 | 1.10 |
| 3.900 | 1.10 | 9.900  | 3.30   | 15.900 | 2.75 | 21.90 | 1.10 |
| 3.933 | 1.10 | 9.933  | 3.30   | 15.933 | 2.75 | 21.93 | 1.10 |
| 3.967 | 1.10 | 9.967  | 3.30   | 15.967 | 2.75 | 21.97 | 1.10 |
| 4.000 | 1.10 | 10.000 | 3.30   | 16.000 | 2.75 | 22.00 | 1.10 |
| 4.033 | 2.20 | 10.033 | 6.06   | 16.033 | 2.75 | 22.03 | 1.10 |
| 4.067 | 2.20 | 10.067 | 6.06   | 16.067 | 2.75 | 22.07 | 1.10 |
| 4.100 | 2.20 | 10.100 | 6.06   | 16.100 | 2.75 | 22.10 | 1.10 |
| 4.133 | 2.20 | 10.133 | 6.06   | 16.133 | 2.75 | 22.13 | 1.10 |
| 4.167 | 2.20 | 10.167 | 6.06   | 16.167 | 2.75 | 22.17 | 1.10 |
| 4.200 | 2.20 | 10.200 | 6.06   | 16.200 | 2.75 | 22.20 | 1.10 |
| 4.233 | 2.20 | 10.233 | 6.06   | 16.233 | 2.75 | 22.23 | 1.65 |
| 4.267 | 2.20 | 10.267 | 6.06   | 16.267 | 2.75 | 22.27 | 1.65 |
| 4.300 | 2.20 | 10.300 | 6.06   | 16.300 | 2.75 | 22.30 | 1.65 |
| 4.333 | 2.20 | 10.333 | 6.06   | 16.333 | 2.75 | 22.33 | 1.65 |
| 4.367 | 2.20 | 10.367 | 6.06   | 16.367 | 2.75 | 22.37 | 1.65 |
| 4.400 | 2.20 | 10.400 | 6.06   | 16.400 | 2.75 | 22.40 | 1.65 |
| 4.433 | 2.20 | 10.433 | 6.06   | 16.433 | 2.75 | 22.43 | 1.10 |
| 4.467 | 2.20 | 10.467 | 6.06   | 16.467 | 2.75 | 22.47 | 1.10 |
| 4.500 | 2.20 | 10.500 | 6.06   | 16.500 | 2.75 | 22.50 | 1.10 |
| 4.533 | 2.20 | 10.533 | 6.06   | 16.533 | 2.75 | 22.53 | 1.10 |
| 4.567 | 2.20 | 10.567 | 6.06   | 16.567 | 2.75 | 22.57 | 1.10 |
| 4.600 | 2.20 | 10.600 | 6.06   | 16.600 | 2.75 | 22.60 | 1.10 |
| 4.633 | 2.20 | 10.633 | 6.06   | 16.633 | 2.75 | 22.63 | 1.65 |
| 4.667 | 2.20 | 10.667 | 6.06   | 16.667 | 2.75 | 22.67 | 1.65 |
| 4.700 | 2.20 | 10.700 | 6.06   | 16.700 | 2.75 | 22.70 | 1.65 |
| 4.733 | 2.20 | 10.733 | 6.06   | 16.733 | 2.75 | 22.73 | 1.65 |
| 4.767 | 2.20 | 10.767 | 6.06   | 16.767 | 2.75 | 22.77 | 1.65 |
| 4.800 | 2.20 | 10.800 | 6.06   | 16.800 | 2.75 | 22.80 | 1.65 |
| 4.833 | 2.20 | 10.833 | 6.06   | 16.833 | 1.65 | 22.83 | 1.10 |
| 4.867 | 2.20 | 10.867 | 6.06   | 16.867 | 1.65 | 22.87 | 1.10 |
| 4.900 | 2.20 | 10.900 | 6.06   | 16.900 | 1.65 | 22.90 | 1.10 |
| 4.933 | 2.20 | 10.933 | 6.06   | 16.933 | 1.65 | 22.93 | 1.10 |
| 4.967 | 2.20 | 10.967 | 6.06   | 16.967 | 1.65 | 22.97 | 1.10 |
| 5.000 | 2.20 | 11.000 | 6.06   | 17.000 | 1.65 | 23.00 | 1.10 |
| 5.033 | 2.20 | 11.033 | 8.26   | 17.033 | 1.65 | 23.03 | 1.10 |
| 5.067 | 2.20 | 11.067 | 8.26   | 17.067 | 1.65 | 23.07 | 1.10 |
| 5.100 | 2.20 | 11.100 | 8.26   | 17.100 | 1.65 | 23.10 | 1.10 |
| 5.133 | 2.20 | 11.133 | 8.26   | 17.133 | 1.65 | 23.13 | 1.10 |
| 5.167 | 2.20 | 11.167 | 8.26   | 17.167 | 1.65 | 23.17 | 1.10 |
| 5.200 | 2.20 | 11.200 | 8.26   | 17.200 | 2.20 | 23.20 | 1.10 |
| 5.233 | 2.20 | 11.233 | 12.11  | 17.233 | 2.20 | 23.23 | 1.10 |
| 5.267 | 2.20 | 11.267 | 12.11  | 17.267 | 2.20 | 23.27 | 1.10 |
| 5.300 | 2.20 | 11.300 | 12.11  | 17.300 | 2.20 | 23.30 | 1.10 |
| 5.333 | 2.20 | 11.333 | 12.11  | 17.333 | 2.20 | 23.33 | 1.10 |
| 5.367 | 2.20 | 11.367 | 12.11  | 17.367 | 2.20 | 23.37 | 1.10 |
| 5.400 | 2.20 | 11.400 | 12.13  | 17.400 | 2.20 | 23.40 | 1.10 |
| 5.433 | 2.20 | 11.433 | 29.18  | 17.433 | 1.65 | 23.43 | 1.65 |
| 5.467 | 2.20 | 11.467 | 29.18  | 17.467 | 1.65 | 23.47 | 1.65 |
| 5.500 | 2.20 | 11.500 | 29.18  | 17.500 | 1.65 | 23.50 | 1.65 |
| 5.533 | 2.20 | 11.533 | 29.18  | 17.533 | 1.65 | 23.53 | 1.65 |
| 5.567 | 2.20 | 11.567 | 29.18  | 17.567 | 1.65 | 23.57 | 1.65 |
| 5.600 | 2.20 | 11.600 | 29.22  | 17.600 | 1.65 | 23.60 | 1.65 |
| 5.633 | 2.20 | 11.633 | 60.56  | 17.633 | 2.20 | 23.63 | 1.10 |
| 5.667 | 2.20 | 11.667 | 60.56  | 17.667 | 2.20 | 23.67 | 1.10 |
| 5.700 | 2.20 | 11.700 | 60.56  | 17.700 | 2.20 | 23.70 | 1.10 |
| 5.733 | 2.20 | 11.733 | 60.56  | 17.733 | 2.20 | 23.73 | 1.10 |
| 5.767 | 2.20 | 11.767 | 60.56  | 17.767 | 2.20 | 23.77 | 1.10 |
| 5.800 | 2.20 | 11.800 | 60.54  | 17.800 | 2.20 | 23.80 | 1.10 |
| 5.833 | 2.20 | 11.833 | 123.86 | 17.833 | 1.65 | 23.83 | 1.10 |
| 5.867 | 2.20 | 11.867 | 123.86 | 17.867 | 1.65 | 23.87 | 1.10 |
| 5.900 | 2.20 | 11.900 | 123.86 | 17.900 | 1.65 | 23.90 | 1.10 |
| 5.933 | 2.20 | 11.933 | 123.86 | 17.933 | 1.65 | 23.93 | 1.10 |
| 5.967 | 2.20 | 11.967 | 123.86 | 17.967 | 1.65 | 23.97 | 1.10 |
| 6.000 | 2.20 | 12.000 | 123.72 | 18.000 | 1.65 | 24.00 | 1.10 |

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ID = 3 ( 0030): 3.94 0.605 12.10 65.51

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

-----  
| CALIB |  
| NASHYD ( 0393) | Area (ha)= 1.14 Curve Number (CN)= 83.0  
| ID= 1 DT= 2.0 min | Ia (mm)= 5.60 # of Linear Res.(N)= 3.00  
| U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |      |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  | TIME | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.033                              | 1.10  | 6.033 | 2.20  | 12.033 | 22.02 | 18.03 | 1.65  |      |       |
| 0.067                              | 1.10  | 6.067 | 2.20  | 12.067 | 22.02 | 18.07 | 1.65  |      |       |
| 0.100                              | 1.10  | 6.100 | 2.20  | 12.100 | 22.02 | 18.10 | 1.65  |      |       |
| 0.133                              | 1.10  | 6.133 | 2.20  | 12.133 | 22.02 | 18.13 | 1.65  |      |       |
| 0.167                              | 1.10  | 6.167 | 2.20  | 12.167 | 22.02 | 18.17 | 1.65  |      |       |
| 0.200                              | 1.10  | 6.200 | 2.20  | 12.200 | 22.01 | 18.20 | 1.65  |      |       |
| 0.233                              | 1.10  | 6.233 | 2.20  | 12.233 | 13.76 | 18.23 | 1.65  |      |       |
| 0.267                              | 1.10  | 6.267 | 2.20  | 12.267 | 13.76 | 18.27 | 1.65  |      |       |
| 0.300                              | 1.10  | 6.300 | 2.20  | 12.300 | 13.76 | 18.30 | 1.65  |      |       |
| 0.333                              | 1.10  | 6.333 | 2.20  | 12.333 | 13.76 | 18.33 | 1.65  |      |       |
| 0.367                              | 1.10  | 6.367 | 2.20  | 12.367 | 13.76 | 18.37 | 1.65  |      |       |
| 0.400                              | 1.10  | 6.400 | 2.20  | 12.400 | 13.76 | 18.40 | 1.65  |      |       |
| 0.433                              | 1.10  | 6.433 | 2.20  | 12.433 | 9.91  | 18.43 | 2.20  |      |       |
| 0.467                              | 1.10  | 6.467 | 2.20  | 12.467 | 9.91  | 18.47 | 2.20  |      |       |
| 0.500                              | 1.10  | 6.500 | 2.20  | 12.500 | 9.91  | 18.50 | 2.20  |      |       |
| 0.533                              | 1.10  | 6.533 | 2.20  | 12.533 | 9.91  | 18.53 | 2.20  |      |       |
| 0.567                              | 1.10  | 6.567 | 2.20  | 12.567 | 9.91  | 18.57 | 2.20  |      |       |
| 0.600                              | 1.10  | 6.600 | 2.20  | 12.600 | 9.91  | 18.60 | 2.20  |      |       |
| 0.633                              | 1.10  | 6.633 | 2.20  | 12.633 | 9.36  | 18.63 | 1.65  |      |       |
| 0.667                              | 1.10  | 6.667 | 2.20  | 12.667 | 9.36  | 18.67 | 1.65  |      |       |
| 0.700                              | 1.10  | 6.700 | 2.20  | 12.700 | 9.36  | 18.70 | 1.65  |      |       |
| 0.733                              | 1.10  | 6.733 | 2.20  | 12.733 | 9.36  | 18.73 | 1.65  |      |       |
| 0.767                              | 1.10  | 6.767 | 2.20  | 12.767 | 9.36  | 18.77 | 1.65  |      |       |
| 0.800                              | 1.10  | 6.800 | 2.20  | 12.800 | 9.35  | 18.80 | 1.65  |      |       |
| 0.833                              | 1.10  | 6.833 | 2.20  | 12.833 | 6.61  | 18.83 | 1.65  |      |       |
| 0.867                              | 1.10  | 6.867 | 2.20  | 12.867 | 6.61  | 18.87 | 1.65  |      |       |
| 0.900                              | 1.10  | 6.900 | 2.20  | 12.900 | 6.61  | 18.90 | 1.65  |      |       |
| 0.933                              | 1.10  | 6.933 | 2.20  | 12.933 | 6.61  | 18.93 | 1.65  |      |       |
| 0.967                              | 1.10  | 6.967 | 2.20  | 12.967 | 6.61  | 18.97 | 1.65  |      |       |
| 1.000                              | 1.10  | 7.000 | 2.20  | 13.000 | 6.60  | 19.00 | 1.65  |      |       |
| 1.033                              | 1.10  | 7.033 | 2.20  | 13.033 | 5.50  | 19.03 | 2.20  |      |       |
| 1.067                              | 1.10  | 7.067 | 2.20  | 13.067 | 5.50  | 19.07 | 2.20  |      |       |
| 1.100                              | 1.10  | 7.100 | 2.20  | 13.100 | 5.50  | 19.10 | 2.20  |      |       |
| 1.133                              | 1.10  | 7.133 | 2.20  | 13.133 | 5.50  | 19.13 | 2.20  |      |       |
| 1.167                              | 1.10  | 7.167 | 2.20  | 13.167 | 5.50  | 19.17 | 2.20  |      |       |
| 1.200                              | 1.10  | 7.200 | 2.20  | 13.200 | 5.51  | 19.20 | 2.20  |      |       |
| 1.233                              | 1.10  | 7.233 | 2.20  | 13.233 | 5.50  | 19.23 | 1.65  |      |       |
| 1.267                              | 1.10  | 7.267 | 2.20  | 13.267 | 5.50  | 19.27 | 1.65  |      |       |
| 1.300                              | 1.10  | 7.300 | 2.20  | 13.300 | 5.50  | 19.30 | 1.65  |      |       |
| 1.333                              | 1.10  | 7.333 | 2.20  | 13.333 | 5.50  | 19.33 | 1.65  |      |       |
| 1.367                              | 1.10  | 7.367 | 2.20  | 13.367 | 5.50  | 19.37 | 1.65  |      |       |
| 1.400                              | 1.10  | 7.400 | 2.20  | 13.400 | 5.51  | 19.40 | 1.65  |      |       |
| 1.433                              | 1.10  | 7.433 | 2.20  | 13.433 | 5.50  | 19.43 | 2.20  |      |       |
| 1.467                              | 1.10  | 7.467 | 2.20  | 13.467 | 5.50  | 19.47 | 2.20  |      |       |
| 1.500                              | 1.10  | 7.500 | 2.20  | 13.500 | 5.50  | 19.50 | 2.20  |      |       |
| 1.533                              | 1.10  | 7.533 | 2.20  | 13.533 | 5.50  | 19.53 | 2.20  |      |       |
| 1.567                              | 1.10  | 7.567 | 2.20  | 13.567 | 5.50  | 19.57 | 2.20  |      |       |
| 1.600                              | 1.10  | 7.600 | 2.20  | 13.600 | 5.51  | 19.60 | 2.20  |      |       |
| 1.633                              | 1.10  | 7.633 | 2.20  | 13.633 | 5.50  | 19.63 | 1.65  |      |       |
| 1.667                              | 1.10  | 7.667 | 2.20  | 13.667 | 5.50  | 19.67 | 1.65  |      |       |
| 1.700                              | 1.10  | 7.700 | 2.20  | 13.700 | 5.50  | 19.70 | 1.65  |      |       |
| 1.733                              | 1.10  | 7.733 | 2.20  | 13.733 | 5.50  | 19.73 | 1.65  |      |       |
| 1.767                              | 1.10  | 7.767 | 2.20  | 13.767 | 5.50  | 19.77 | 1.65  |      |       |
| 1.800                              | 1.10  | 7.800 | 2.20  | 13.800 | 5.51  | 19.80 | 1.65  |      |       |
| 1.833                              | 1.10  | 7.833 | 2.20  | 13.833 | 5.51  | 19.83 | 2.20  |      |       |
| 1.867                              | 1.10  | 7.867 | 2.20  | 13.867 | 5.51  | 19.87 | 2.20  |      |       |
| 1.900                              | 1.10  | 7.900 | 2.20  | 13.900 | 5.51  | 19.90 | 2.20  |      |       |
| 1.933                              | 1.10  | 7.933 | 2.20  | 13.933 | 5.51  | 19.93 | 2.20  |      |       |
| 1.967                              | 1.10  | 7.967 | 2.20  | 13.967 | 5.51  | 19.97 | 2.20  |      |       |
| 2.000                              | 1.10  | 8.000 | 2.20  | 14.000 | 5.50  | 20.00 | 2.20  |      |       |
| 2.033                              | 1.10  | 8.033 | 3.30  | 14.033 | 3.30  | 20.03 | 1.65  |      |       |
| 2.067                              | 1.10  | 8.067 | 3.30  | 14.067 | 3.30  | 20.07 | 1.65  |      |       |
| 2.100                              | 1.10  | 8.100 | 3.30  | 14.100 | 3.30  | 20.10 | 1.65  |      |       |
| 2.133                              | 1.10  | 8.133 | 3.30  | 14.133 | 3.30  | 20.13 | 1.65  |      |       |
| 2.167                              | 1.10  | 8.167 | 3.30  | 14.167 | 3.30  | 20.17 | 1.65  |      |       |
| 2.200                              | 1.10  | 8.200 | 3.30  | 14.200 | 3.30  | 20.20 | 1.65  |      |       |
| 2.233                              | 1.10  | 8.233 | 3.30  | 14.233 | 3.30  | 20.23 | 1.65  |      |       |
| 2.267                              | 1.10  | 8.267 | 3.30  | 14.267 | 3.30  | 20.27 | 1.65  |      |       |
| 2.300                              | 1.10  | 8.300 | 3.30  | 14.300 | 3.30  | 20.30 | 1.65  |      |       |
| 2.333                              | 1.10  | 8.333 | 3.30  | 14.333 | 3.30  | 20.33 | 1.65  |      |       |
| 2.367                              | 1.10  | 8.367 | 3.30  | 14.367 | 3.30  | 20.37 | 1.65  |      |       |
| 2.400                              | 1.10  | 8.400 | 3.30  | 14.400 | 3.30  | 20.40 | 1.65  |      |       |
| 2.433                              | 1.10  | 8.433 | 3.30  | 14.433 | 3.30  | 20.43 | 1.10  |      |       |
| 2.467                              | 1.10  | 8.467 | 3.30  | 14.467 | 3.30  | 20.47 | 1.10  |      |       |
| 2.500                              | 1.10  | 8.500 | 3.30  | 14.500 | 3.30  | 20.50 | 1.10  |      |       |
| 2.533                              | 1.10  | 8.533 | 3.30  | 14.533 | 3.30  | 20.53 | 1.10  |      |       |
| 2.567                              | 1.10  | 8.567 | 3.30  | 14.567 | 3.30  | 20.57 | 1.10  |      |       |
| 2.600                              | 1.10  | 8.600 | 3.30  | 14.600 | 3.30  | 20.60 | 1.10  |      |       |
| 2.633                              | 1.10  | 8.633 | 3.30  | 14.633 | 3.30  | 20.63 | 1.65  |      |       |
| 2.667                              | 1.10  | 8.667 | 3.30  | 14.667 | 3.30  | 20.67 | 1.65  |      |       |
| 2.700                              | 1.10  | 8.700 | 3.30  | 14.700 | 3.30  | 20.70 | 1.65  |      |       |
| 2.733                              | 1.10  | 8.733 | 3.30  | 14.733 | 3.30  | 20.73 | 1.65  |      |       |
| 2.767                              | 1.10  | 8.767 | 3.30  | 14.767 | 3.30  | 20.77 | 1.65  |      |       |
| 2.800                              | 1.10  | 8.800 | 3.30  | 14.800 | 3.30  | 20.80 | 1.65  |      |       |
| 2.833                              | 1.10  | 8.833 | 3.30  | 14.833 | 3.30  | 20.83 | 1.65  |      |       |
| 2.867                              | 1.10  | 8.867 | 3.30  | 14.867 | 3.30  | 20.87 | 1.65  |      |       |
| 2.900                              | 1.10  | 8.900 | 3.30  | 14.900 | 3.30  | 20.90 | 1.65  |      |       |
| 2.933                              | 1.10  | 8.933 | 3.30  | 14.933 | 3.30  | 20.93 | 1.65  |      |       |
| 2.967                              | 1.10  | 8.967 | 3.30  | 14.967 | 3.30  | 20.97 | 1.65  |      |       |
| 3.000                              | 1.10  | 9.000 | 3.30  | 15.000 | 3.30  | 21.00 | 1.65  |      |       |
| 3.033                              | 1.10  | 9.033 | 3.30  | 15.033 | 2.75  | 21.03 | 1.10  |      |       |
| 3.067                              | 1.10  | 9.067 | 3.30  | 15.067 | 2.75  | 21.07 | 1.10  |      |       |
| 3.100                              | 1.10  | 9.100 | 3.30  | 15.100 | 2.75  | 21.10 | 1.10  |      |       |
| 3.133                              | 1.10  | 9.133 | 3.30  | 15.133 | 2.75  | 21.13 | 1.10  |      |       |
| 3.167                              | 1.10  | 9.167 | 3.30  | 15.167 | 2.75  | 21.17 | 1.10  |      |       |
| 3.200                              | 1.10  | 9.200 | 3.30  | 15.200 | 2.75  | 21.20 | 1.10  |      |       |
| 3.233                              | 1.10  | 9.233 | 3.30  | 15.233 | 2.75  | 21.23 | 1.65  |      |       |
| 3.267                              | 1.10  | 9.267 | 3.30  | 15.267 | 2.75  | 21.27 | 1.65  |      |       |
| 3.300                              | 1.10  | 9.300 | 3.30  | 15.300 | 2.75  | 21.30 | 1.65  |      |       |
| 3.333                              | 1.10  | 9.333 | 3.30  | 15.333 | 2.75  | 21.33 | 1.65  |      |       |
| 3.367                              | 1.10  | 9.367 | 3.30  | 15.367 | 2.75  | 21.37 | 1.65  |      |       |
| 3.400                              | 1.10  | 9.400 | 3.30  | 15.400 | 2.75  | 21.40 | 1.65  |      |       |
| 3.433                              | 1.10  | 9.433 | 3.30  | 15.433 | 2.75  | 21.43 | 1.10  |      |       |
| 3.467                              | 1.10  | 9.467 | 3.30  | 15.467 | 2.75  | 21.47 | 1.10  |      |       |
| 3.500                              | 1.10  | 9.500 | 3.30  | 15.500 | 2.75  | 21.50 | 1.10  |      |       |
| 3.533                              | 1.10  | 9.533 | 3.30  | 15.533 | 2.75  | 21.53 | 1.10  |      |       |
| 3.567                              | 1.10  | 9.567 | 3.30  | 15.567 | 2.75  | 21.57 | 1.10  |      |       |
| 3.600                              | 1.10  | 9.600 | 3.30  | 15.600 | 2.75  | 21.60 | 1.10  |      |       |
| 3.633                              | 1.10  | 9.633 | 3.30  | 15.633 | 2.75  | 21.63 | 1.65  |      |       |
| 3.667                              | 1.10  | 9.667 | 3.30  | 15.667 | 2.75  | 21.67 | 1.65  |      |       |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 3.700 | 1.10 | 9.700  | 3.30   | 15.700 | 2.75 | 21.70 | 1.65 |
| 3.733 | 1.10 | 9.733  | 3.30   | 15.733 | 2.75 | 21.73 | 1.65 |
| 3.767 | 1.10 | 9.767  | 3.30   | 15.767 | 2.75 | 21.77 | 1.65 |
| 3.800 | 1.10 | 9.800  | 3.30   | 15.800 | 2.75 | 21.80 | 1.65 |
| 3.833 | 1.10 | 9.833  | 3.30   | 15.833 | 2.75 | 21.83 | 1.10 |
| 3.867 | 1.10 | 9.867  | 3.30   | 15.867 | 2.75 | 21.87 | 1.10 |
| 3.900 | 1.10 | 9.900  | 3.30   | 15.900 | 2.75 | 21.90 | 1.10 |
| 3.933 | 1.10 | 9.933  | 3.30   | 15.933 | 2.75 | 21.93 | 1.10 |
| 3.967 | 1.10 | 9.967  | 3.30   | 15.967 | 2.75 | 21.97 | 1.10 |
| 4.000 | 1.10 | 10.000 | 3.30   | 16.000 | 2.75 | 22.00 | 1.10 |
| 4.033 | 2.20 | 10.033 | 6.06   | 16.033 | 2.75 | 22.03 | 1.10 |
| 4.067 | 2.20 | 10.067 | 6.06   | 16.067 | 2.75 | 22.07 | 1.10 |
| 4.100 | 2.20 | 10.100 | 6.06   | 16.100 | 2.75 | 22.10 | 1.10 |
| 4.133 | 2.20 | 10.133 | 6.06   | 16.133 | 2.75 | 22.13 | 1.10 |
| 4.167 | 2.20 | 10.167 | 6.06   | 16.167 | 2.75 | 22.17 | 1.10 |
| 4.200 | 2.20 | 10.200 | 6.06   | 16.200 | 2.75 | 22.20 | 1.10 |
| 4.233 | 2.20 | 10.233 | 6.06   | 16.233 | 2.75 | 22.23 | 1.65 |
| 4.267 | 2.20 | 10.267 | 6.06   | 16.267 | 2.75 | 22.27 | 1.65 |
| 4.300 | 2.20 | 10.300 | 6.06   | 16.300 | 2.75 | 22.30 | 1.65 |
| 4.333 | 2.20 | 10.333 | 6.06   | 16.333 | 2.75 | 22.33 | 1.65 |
| 4.367 | 2.20 | 10.367 | 6.06   | 16.367 | 2.75 | 22.37 | 1.65 |
| 4.400 | 2.20 | 10.400 | 6.06   | 16.400 | 2.75 | 22.40 | 1.65 |
| 4.433 | 2.20 | 10.433 | 6.06   | 16.433 | 2.75 | 22.43 | 1.10 |
| 4.467 | 2.20 | 10.467 | 6.06   | 16.467 | 2.75 | 22.47 | 1.10 |
| 4.500 | 2.20 | 10.500 | 6.06   | 16.500 | 2.75 | 22.50 | 1.10 |
| 4.533 | 2.20 | 10.533 | 6.06   | 16.533 | 2.75 | 22.53 | 1.10 |
| 4.567 | 2.20 | 10.567 | 6.06   | 16.567 | 2.75 | 22.57 | 1.10 |
| 4.600 | 2.20 | 10.600 | 6.06   | 16.600 | 2.75 | 22.60 | 1.10 |
| 4.633 | 2.20 | 10.633 | 6.06   | 16.633 | 2.75 | 22.63 | 1.65 |
| 4.667 | 2.20 | 10.667 | 6.06   | 16.667 | 2.75 | 22.67 | 1.65 |
| 4.700 | 2.20 | 10.700 | 6.06   | 16.700 | 2.75 | 22.70 | 1.65 |
| 4.733 | 2.20 | 10.733 | 6.06   | 16.733 | 2.75 | 22.73 | 1.65 |
| 4.767 | 2.20 | 10.767 | 6.06   | 16.767 | 2.75 | 22.77 | 1.65 |
| 4.800 | 2.20 | 10.800 | 6.06   | 16.800 | 2.75 | 22.80 | 1.65 |
| 4.833 | 2.20 | 10.833 | 6.06   | 16.833 | 1.65 | 22.83 | 1.10 |
| 4.867 | 2.20 | 10.867 | 6.06   | 16.867 | 1.65 | 22.87 | 1.10 |
| 4.900 | 2.20 | 10.900 | 6.06   | 16.900 | 1.65 | 22.90 | 1.10 |
| 4.933 | 2.20 | 10.933 | 6.06   | 16.933 | 1.65 | 22.93 | 1.10 |
| 4.967 | 2.20 | 10.967 | 6.06   | 16.967 | 1.65 | 22.97 | 1.10 |
| 5.000 | 2.20 | 11.000 | 6.06   | 17.000 | 1.65 | 23.00 | 1.10 |
| 5.033 | 2.20 | 11.033 | 8.26   | 17.033 | 1.65 | 23.03 | 1.10 |
| 5.067 | 2.20 | 11.067 | 8.26   | 17.067 | 1.65 | 23.07 | 1.10 |
| 5.100 | 2.20 | 11.100 | 8.26   | 17.100 | 1.65 | 23.10 | 1.10 |
| 5.133 | 2.20 | 11.133 | 8.26   | 17.133 | 1.65 | 23.13 | 1.10 |
| 5.167 | 2.20 | 11.167 | 8.26   | 17.167 | 1.65 | 23.17 | 1.10 |
| 5.200 | 2.20 | 11.200 | 8.26   | 17.200 | 1.65 | 23.20 | 1.10 |
| 5.233 | 2.20 | 11.233 | 12.11  | 17.233 | 2.20 | 23.23 | 1.10 |
| 5.267 | 2.20 | 11.267 | 12.11  | 17.267 | 2.20 | 23.27 | 1.10 |
| 5.300 | 2.20 | 11.300 | 12.11  | 17.300 | 2.20 | 23.30 | 1.10 |
| 5.333 | 2.20 | 11.333 | 12.11  | 17.333 | 2.20 | 23.33 | 1.10 |
| 5.367 | 2.20 | 11.367 | 12.11  | 17.367 | 2.20 | 23.37 | 1.10 |
| 5.400 | 2.20 | 11.400 | 12.13  | 17.400 | 2.20 | 23.40 | 1.10 |
| 5.433 | 2.20 | 11.433 | 29.18  | 17.433 | 1.65 | 23.43 | 1.65 |
| 5.467 | 2.20 | 11.467 | 29.18  | 17.467 | 1.65 | 23.47 | 1.65 |
| 5.500 | 2.20 | 11.500 | 29.18  | 17.500 | 1.65 | 23.50 | 1.65 |
| 5.533 | 2.20 | 11.533 | 29.18  | 17.533 | 1.65 | 23.53 | 1.65 |
| 5.567 | 2.20 | 11.567 | 29.18  | 17.567 | 1.65 | 23.57 | 1.65 |
| 5.600 | 2.20 | 11.600 | 29.22  | 17.600 | 1.65 | 23.60 | 1.65 |
| 5.633 | 2.20 | 11.633 | 60.56  | 17.633 | 2.20 | 23.63 | 1.10 |
| 5.667 | 2.20 | 11.667 | 60.56  | 17.667 | 2.20 | 23.67 | 1.10 |
| 5.700 | 2.20 | 11.700 | 60.56  | 17.700 | 2.20 | 23.70 | 1.10 |
| 5.733 | 2.20 | 11.733 | 60.56  | 17.733 | 2.20 | 23.73 | 1.10 |
| 5.767 | 2.20 | 11.767 | 60.56  | 17.767 | 2.20 | 23.77 | 1.10 |
| 5.800 | 2.20 | 11.800 | 123.86 | 17.800 | 2.20 | 23.80 | 1.10 |
| 5.833 | 2.20 | 11.833 | 123.86 | 17.833 | 1.65 | 23.83 | 1.10 |
| 5.867 | 2.20 | 11.867 | 123.86 | 17.867 | 1.65 | 23.87 | 1.10 |
| 5.900 | 2.20 | 11.900 | 123.86 | 17.900 | 1.65 | 23.90 | 1.10 |
| 5.933 | 2.20 | 11.933 | 123.86 | 17.933 | 1.65 | 23.93 | 1.10 |
| 5.967 | 2.20 | 11.967 | 123.86 | 17.967 | 1.65 | 23.97 | 1.10 |
| 6.000 | 2.20 | 12.000 | 123.72 | 18.000 | 1.65 | 24.00 | 1.10 |

|       |      |        |      |        |       |       |      |
|-------|------|--------|------|--------|-------|-------|------|
| 0.067 | 1.10 | 6.067  | 2.20 | 12.067 | 22.02 | 18.07 | 1.65 |
| 0.100 | 1.10 | 6.100  | 2.20 | 12.100 | 22.02 | 18.10 | 1.65 |
| 0.133 | 1.10 | 6.133  | 2.20 | 12.133 | 22.02 | 18.13 | 1.65 |
| 0.167 | 1.10 | 6.167  | 2.20 | 12.167 | 22.02 | 18.17 | 1.65 |
| 0.200 | 1.10 | 6.200  | 2.20 | 12.200 | 22.01 | 18.20 | 1.65 |
| 0.233 | 1.10 | 6.233  | 2.20 | 12.233 | 13.76 | 18.23 | 1.65 |
| 0.267 | 1.10 | 6.267  | 2.20 | 12.267 | 13.76 | 18.27 | 1.65 |
| 0.300 | 1.10 | 6.300  | 2.20 | 12.300 | 13.76 | 18.30 | 1.65 |
| 0.333 | 1.10 | 6.333  | 2.20 | 12.333 | 13.76 | 18.33 | 1.65 |
| 0.367 | 1.10 | 6.367  | 2.20 | 12.367 | 13.76 | 18.37 | 1.65 |
| 0.400 | 1.10 | 6.400  | 2.20 | 12.400 | 13.76 | 18.40 | 1.65 |
| 0.433 | 1.10 | 6.433  | 2.20 | 12.433 | 9.91  | 18.43 | 2.20 |
| 0.467 | 1.10 | 6.467  | 2.20 | 12.467 | 9.91  | 18.47 | 2.20 |
| 0.500 | 1.10 | 6.500  | 2.20 | 12.500 | 9.91  | 18.50 | 2.20 |
| 0.533 | 1.10 | 6.533  | 2.20 | 12.533 | 9.91  | 18.53 | 2.20 |
| 0.567 | 1.10 | 6.567  | 2.20 | 12.567 | 9.91  | 18.57 | 2.20 |
| 0.600 | 1.10 | 6.600  | 2.20 | 12.600 | 9.91  | 18.60 | 2.20 |
| 0.633 | 1.10 | 6.633  | 2.20 | 12.633 | 9.36  | 18.63 | 1.65 |
| 0.667 | 1.10 | 6.667  | 2.20 | 12.667 | 9.36  | 18.67 | 1.65 |
| 0.700 | 1.10 | 6.700  | 2.20 | 12.700 | 9.36  | 18.70 | 1.65 |
| 0.733 | 1.10 | 6.733  | 2.20 | 12.733 | 9.36  | 18.73 | 1.65 |
| 0.767 | 1.10 | 6.767  | 2.20 | 12.767 | 9.36  | 18.77 | 1.65 |
| 0.800 | 1.10 | 6.800  | 2.20 | 12.800 | 9.35  | 18.80 | 1.65 |
| 0.833 | 1.10 | 6.833  | 2.20 | 12.833 | 6.61  | 18.83 | 1.65 |
| 0.867 | 1.10 | 6.867  | 2.20 | 12.867 | 6.61  | 18.87 | 1.65 |
| 0.900 | 1.10 | 6.900  | 2.20 | 12.900 | 6.61  | 18.90 | 1.65 |
| 0.933 | 1.10 | 6.933  | 2.20 | 12.933 | 6.61  | 18.93 | 1.65 |
| 0.967 | 1.10 | 6.967  | 2.20 | 12.967 | 6.61  | 18.97 | 1.65 |
| 1.000 | 1.10 | 7.000  | 2.20 | 13.000 | 6.60  | 19.00 | 1.65 |
| 1.033 | 1.10 | 7.033  | 2.20 | 13.033 | 5.50  | 19.03 | 2.20 |
| 1.067 | 1.10 | 7.067  | 2.20 | 13.067 | 5.50  | 19.07 | 2.20 |
| 1.100 | 1.10 | 7.100  | 2.20 | 13.100 | 5.50  | 19.10 | 2.20 |
| 1.133 | 1.10 | 7.133  | 2.20 | 13.133 | 5.50  | 19.13 | 2.20 |
| 1.167 | 1.10 | 7.167  | 2.20 | 13.167 | 5.50  | 19.17 | 2.20 |
| 1.200 | 1.10 | 7.200  | 2.20 | 13.200 | 5.51  | 19.20 | 2.20 |
| 1.233 | 1.10 | 7.233  | 2.20 | 13.233 | 5.50  | 19.23 | 1.65 |
| 1.267 | 1.10 | 7.267  | 2.20 | 13.267 | 5.50  | 19.27 | 1.65 |
| 1.300 | 1.10 | 7.300  | 2.20 | 13.300 | 5.50  | 19.30 | 1.65 |
| 1.333 | 1.10 | 7.333  | 2.20 | 13.333 | 5.50  | 19.33 | 1.65 |
| 1.367 | 1.10 | 7.367  | 2.20 | 13.367 | 5.50  | 19.37 | 1.65 |
| 1.400 | 1.10 | 7.400  | 2.20 | 13.400 | 5.51  | 19.40 | 1.65 |
| 1.433 | 1.10 | 7.433  | 2.20 | 13.433 | 5.50  | 19.43 | 2.20 |
| 1.467 | 1.10 | 7.467  | 2.20 | 13.467 | 5.50  | 19.47 | 2.20 |
| 1.500 | 1.10 | 7.500  | 2.20 | 13.500 | 5.50  | 19.50 | 2.20 |
| 1.533 | 1.10 | 7.533  | 2.20 | 13.533 | 5.50  | 19.53 | 2.20 |
| 1.567 | 1.10 | 7.567  | 2.20 | 13.567 | 5.50  | 19.57 | 2.20 |
| 1.600 | 1.10 | 7.600  | 2.20 | 13.600 | 5.51  | 19.60 | 2.20 |
| 1.633 | 1.10 | 7.633  | 2.20 | 13.633 | 5.50  | 19.63 | 1.65 |
| 1.667 | 1.10 | 7.667  | 2.20 | 13.667 | 5.50  | 19.67 | 1.65 |
| 1.700 | 1.10 | 7.700  | 2.20 | 13.700 | 5.50  | 19.70 | 1.65 |
| 1.733 | 1.10 | 7.733  | 2.20 | 13.733 | 5.50  | 19.73 | 1.65 |
| 1.767 | 1.10 | 7.767  | 2.20 | 13.767 | 5.50  | 19.77 | 1.65 |
| 1.800 | 1.10 | 7.800  | 2.20 | 13.800 | 5.51  | 19.80 | 1.65 |
| 1.833 | 1.10 | 7.833  | 2.20 | 13.833 | 5.51  | 19.83 | 2.20 |
| 1.867 | 1.10 | 7.867  | 2.20 | 13.867 | 5.51  | 19.87 | 2.20 |
| 1.900 | 1.10 | 7.900  | 2.20 | 13.900 | 5.51  | 19.90 | 2.20 |
| 1.933 | 1.10 | 7.933  | 2.20 | 13.933 | 5.51  | 19.93 | 2.20 |
| 1.967 | 1.10 | 7.967  | 2.20 | 13.967 | 5.51  | 19.97 | 2.20 |
| 2.000 | 1.10 | 8.000  | 2.20 | 14.000 | 5.50  | 20.00 | 2.20 |
| 2.033 | 1.10 | 8.033  | 3.30 | 14.033 | 3.30  | 20.03 | 1.65 |
| 2.067 | 1.10 | 8.067  | 3.30 | 14.067 | 3.30  | 20.07 | 1.65 |
| 2.100 | 1.10 | 8.100  | 3.30 | 14.100 | 3.30  | 20.10 | 1.65 |
| 2.133 | 1.10 | 8.133  | 3.30 | 14.133 | 3.30  | 20.13 | 1.65 |
| 2.167 | 1.10 | 8.167  | 3.30 | 14.167 | 3.30  | 20.17 | 1.65 |
| 2.200 | 1.10 | 8.200  | 3.30 | 14.200 | 3.30  | 20.20 | 1.65 |
| 2.233 | 1.10 | 8.233  | 3.30 | 14.233 | 3.30  | 20.23 | 1.65 |
| 2.267 | 1.10 | 8.267  | 3.30 | 14.267 | 3.30  | 20.27 | 1.65 |
| 2.300 | 1.10 | 8.300  | 3.30 | 14.300 | 3.30  | 20.30 | 1.65 |
| 2.333 | 1.10 | 8.333  | 3.30 | 14.333 | 3.30  | 20.33 | 1.65 |
| 2.367 | 1.10 | 8.367  | 3.30 | 14.367 | 3.30  | 20.37 | 1.65 |
| 2.400 | 1.10 | 8.400  | 3.30 | 14.400 | 3.30  | 20.40 | 1.65 |
| 2.433 | 1.10 | 8.433  | 3.30 | 14.433 | 3.30  | 20.43 | 1.10 |
| 2.467 | 1.10 | 8.467  | 3.30 | 14.467 | 3.30  | 20.47 | 1.10 |
| 2.500 | 1.10 | 8.500  | 3.30 | 14.500 | 3.30  | 20.50 | 1.10 |
| 2.533 | 1.10 | 8.533  | 3.30 | 14.533 | 3.30  | 20.53 | 1.10 |
| 2.567 | 1.10 | 8.567  | 3.30 | 14.567 | 3.30  | 20.57 | 1.10 |
| 2.600 | 1.10 | 8.600  | 3.30 | 14.600 | 3.30  | 20.60 | 1.10 |
| 2.633 | 1.10 | 8.633  | 3.30 | 14.633 | 3.30  | 20.63 | 1.65 |
| 2.667 | 1.10 | 8.667  | 3.30 | 14.667 | 3.30  | 20.67 | 1.65 |
| 2.700 | 1.10 | 8.700  | 3.30 | 14.700 | 3.30  | 20.70 | 1.65 |
| 2.733 | 1.10 | 8.733  | 3.30 | 14.733 | 3.30  | 20.73 | 1.65 |
| 2.767 | 1.10 | 8.767  | 3.30 | 14.767 | 3.30  | 20.77 | 1.65 |
| 2.800 | 1.10 | 8.800  | 3.30 | 14.800 | 3.30  | 20.80 | 1.65 |
| 2.833 | 1.10 | 8.833  | 3.30 | 14.833 | 3.30  | 20.83 | 1.65 |
| 2.867 | 1.10 | 8.867  | 3.30 | 14.867 | 3.30  | 20.87 | 1.65 |
| 2.900 | 1.10 | 8.900  | 3.30 | 14.900 | 3.30  | 20.90 | 1.65 |
| 2.933 | 1.10 | 8.933  | 3.30 | 14.933 | 3.30  | 20.93 | 1.65 |
| 2.967 | 1.10 | 8.967  | 3.30 | 14.967 | 3.30  | 20.97 | 1.65 |
| 3.000 | 1.10 | 9.000  | 3.30 | 15.000 | 3.30  | 21.00 | 1.65 |
| 3.033 | 1.10 | 9.033  | 3.30 | 15.033 | 2.75  | 21.03 | 1.10 |
| 3.067 | 1.10 | 9.067  | 3.30 | 15.067 | 2.75  | 21.07 | 1.10 |
| 3.100 | 1.10 | 9.100  | 3.30 | 15.100 | 2.75  | 21.10 | 1.10 |
| 3.133 | 1.10 | 9.133  | 3.30 | 15.133 | 2.75  | 21.13 | 1.10 |
| 3.167 | 1.10 | 9.167  | 3.30 | 15.167 | 2.75  | 21.17 | 1.10 |
| 3.200 | 1.10 | 9.200  | 3.30 | 15.200 | 2.75  | 21.20 | 1.10 |
| 3.233 | 1.10 | 9.233  | 3.30 | 15.233 | 2.75  | 21.23 | 1.65 |
| 3.267 | 1.10 | 9.267  | 3.30 | 15.267 | 2.75  | 21.27 | 1.65 |
| 3.300 | 1.10 | 9.300  | 3.30 | 15.300 | 2.75  | 21.30 | 1.65 |
| 3.333 | 1.10 | 9.333  | 3.30 | 15.333 | 2.75  | 21.33 | 1.65 |
| 3.367 | 1.10 | 9.367  | 3.30 | 15.367 | 2.75  | 21.37 | 1.65 |
| 3.400 | 1.10 | 9.400  | 3.30 | 15.400 | 2.75  | 21.40 | 1.65 |
| 3.433 | 1.10 | 9.433  | 3.30 | 15.433 | 2.75  | 21.43 | 1.10 |
| 3.467 | 1.10 | 9.467  | 3.30 | 15.467 | 2.75  | 21.47 | 1.10 |
| 3.500 | 1.10 | 9.500  | 3.30 | 15.500 | 2.75  | 21.50 | 1.10 |
| 3.533 | 1.10 | 9.533  | 3.30 | 15.533 | 2.75  | 21.53 | 1.10 |
| 3.567 | 1.10 | 9.567  | 3.30 | 15.567 | 2.75  | 21.57 | 1.10 |
| 3.600 | 1.10 | 9.600  | 3.30 | 15.600 | 2.75  | 21.60 | 1.10 |
| 3.633 | 1.10 | 9.633  | 3.30 | 15.633 | 2.75  | 21.63 | 1.65 |
| 3.667 | 1.10 | 9.667  | 3.30 | 15.667 | 2.75  | 21.67 | 1.65 |
| 3.700 | 1.10 | 9.700  | 3.30 | 15.700 | 2.75  | 21.70 | 1.65 |
| 3.733 | 1.10 | 9.733  | 3.30 | 15.733 | 2.75  | 21.73 | 1.65 |
| 3.767 | 1.10 | 9.767  | 3.30 | 15.767 | 2.75  | 21.77 | 1.65 |
| 3.800 | 1.10 | 9.800  | 3.30 | 15.800 | 2.75  | 21.80 | 1.65 |
| 3.833 | 1.10 | 9.833  | 3.30 | 15.833 | 2.75  | 21.83 | 1.10 |
| 3.867 | 1.10 | 9.867  | 3.30 | 15.867 | 2.75  | 21.87 | 1.10 |
| 3.900 | 1.10 | 9.900  | 3.30 | 15.900 | 2.75  | 21.90 | 1.10 |
| 3.933 | 1.10 | 9.933  | 3.30 | 15.933 | 2.75  | 21.93 | 1.10 |
| 3.967 | 1.10 | 9.967  | 3.30 | 15.967 | 2.75  | 21.97 | 1.10 |
| 4.000 | 1.10 | 10.000 | 3.30 | 16.000 | 2.75  | 22.00 | 1.10 |
| 4.033 | 2.20 | 10.033 | 6.06 | 16.033 | 2.75  | 22.03 | 1.10 |
| 4.067 | 2.20 | 10.067 | 6.06 | 16.067 | 2.75  | 22.07 | 1.10 |
| 4.100 | 2.20 | 10.100 | 6.06 | 16.100 | 2.75  | 22.10 | 1.10 |
| 4.133 | 2.20 | 10.133 | 6.06 | 16.133 | 2.75  | 22.13 | 1.10 |
| 4.167 | 2.20 | 10.167 | 6.06 | 16.167 | 2.75  | 22.17 | 1.10 |
| 4.200 | 2.20 | 10.200 | 6.06 | 16.200 | 2.75  | 22.20 | 1.10 |
| 4.233 | 2.20 | 10.233 | 6.06 | 16.233 | 2.75  | 22.23 | 1.65 |
| 4.267 | 2.20 | 10.267 | 6.06 | 16.267 | 2.75  | 22.27 | 1.65 |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 4.300 | 2.20 | 10.300 | 6.06   | 16.300 | 2.75 | 22.30 | 1.65 |
| 4.333 | 2.20 | 10.333 | 6.06   | 16.333 | 2.75 | 22.33 | 1.65 |
| 4.367 | 2.20 | 10.367 | 6.06   | 16.367 | 2.75 | 22.37 | 1.65 |
| 4.400 | 2.20 | 10.400 | 6.06   | 16.400 | 2.75 | 22.40 | 1.65 |
| 4.433 | 2.20 | 10.433 | 6.06   | 16.433 | 2.75 | 22.43 | 1.10 |
| 4.467 | 2.20 | 10.467 | 6.06   | 16.467 | 2.75 | 22.47 | 1.10 |
| 4.500 | 2.20 | 10.500 | 6.06   | 16.500 | 2.75 | 22.50 | 1.10 |
| 4.533 | 2.20 | 10.533 | 6.06   | 16.533 | 2.75 | 22.53 | 1.10 |
| 4.567 | 2.20 | 10.567 | 6.06   | 16.567 | 2.75 | 22.57 | 1.10 |
| 4.600 | 2.20 | 10.600 | 6.06   | 16.600 | 2.75 | 22.60 | 1.10 |
| 4.633 | 2.20 | 10.633 | 6.06   | 16.633 | 2.75 | 22.63 | 1.65 |
| 4.667 | 2.20 | 10.667 | 6.06   | 16.667 | 2.75 | 22.67 | 1.65 |
| 4.700 | 2.20 | 10.700 | 6.06   | 16.700 | 2.75 | 22.70 | 1.65 |
| 4.733 | 2.20 | 10.733 | 6.06   | 16.733 | 2.75 | 22.73 | 1.65 |
| 4.767 | 2.20 | 10.767 | 6.06   | 16.767 | 2.75 | 22.77 | 1.65 |
| 4.800 | 2.20 | 10.800 | 6.06   | 16.800 | 2.75 | 22.80 | 1.65 |
| 4.833 | 2.20 | 10.833 | 6.06   | 16.833 | 1.65 | 22.83 | 1.10 |
| 4.867 | 2.20 | 10.867 | 6.06   | 16.867 | 1.65 | 22.87 | 1.10 |
| 4.900 | 2.20 | 10.900 | 6.06   | 16.900 | 1.65 | 22.90 | 1.10 |
| 4.933 | 2.20 | 10.933 | 6.06   | 16.933 | 1.65 | 22.93 | 1.10 |
| 4.967 | 2.20 | 10.967 | 6.06   | 16.967 | 1.65 | 22.97 | 1.10 |
| 5.000 | 2.20 | 11.000 | 6.06   | 17.000 | 1.65 | 23.00 | 1.10 |
| 5.033 | 2.20 | 11.033 | 8.26   | 17.033 | 1.65 | 23.03 | 1.10 |
| 5.067 | 2.20 | 11.067 | 8.26   | 17.067 | 1.65 | 23.07 | 1.10 |
| 5.100 | 2.20 | 11.100 | 8.26   | 17.100 | 1.65 | 23.10 | 1.10 |
| 5.133 | 2.20 | 11.133 | 8.26   | 17.133 | 1.65 | 23.13 | 1.10 |
| 5.167 | 2.20 | 11.167 | 8.26   | 17.167 | 1.65 | 23.17 | 1.10 |
| 5.200 | 2.20 | 11.200 | 8.26   | 17.200 | 1.65 | 23.20 | 1.10 |
| 5.233 | 2.20 | 11.233 | 12.11  | 17.233 | 2.20 | 23.23 | 2.10 |
| 5.267 | 2.20 | 11.267 | 12.11  | 17.267 | 2.20 | 23.27 | 1.10 |
| 5.300 | 2.20 | 11.300 | 12.11  | 17.300 | 2.20 | 23.30 | 1.10 |
| 5.333 | 2.20 | 11.333 | 12.11  | 17.333 | 2.20 | 23.33 | 1.10 |
| 5.367 | 2.20 | 11.367 | 12.11  | 17.367 | 2.20 | 23.37 | 1.10 |
| 5.400 | 2.20 | 11.400 | 12.13  | 17.400 | 2.20 | 23.40 | 1.10 |
| 5.433 | 2.20 | 11.433 | 12.13  | 17.433 | 1.65 | 23.43 | 1.10 |
| 5.467 | 2.20 | 11.467 | 29.18  | 17.467 | 1.65 | 23.47 | 1.65 |
| 5.500 | 2.20 | 11.500 | 29.18  | 17.500 | 1.65 | 23.50 | 1.65 |
| 5.533 | 2.20 | 11.533 | 29.18  | 17.533 | 1.65 | 23.53 | 1.65 |
| 5.567 | 2.20 | 11.567 | 29.18  | 17.567 | 1.65 | 23.57 | 1.65 |
| 5.600 | 2.20 | 11.600 | 29.22  | 17.600 | 1.65 | 23.60 | 1.65 |
| 5.633 | 2.20 | 11.633 | 60.56  | 17.633 | 2.20 | 23.63 | 1.10 |
| 5.667 | 2.20 | 11.667 | 60.56  | 17.667 | 2.20 | 23.67 | 1.10 |
| 5.700 | 2.20 | 11.700 | 60.56  | 17.700 | 2.20 | 23.70 | 1.10 |
| 5.733 | 2.20 | 11.733 | 60.56  | 17.733 | 2.20 | 23.73 | 1.10 |
| 5.767 | 2.20 | 11.767 | 60.56  | 17.767 | 2.20 | 23.77 | 1.10 |
| 5.800 | 2.20 | 11.800 | 60.64  | 17.800 | 2.20 | 23.80 | 1.10 |
| 5.833 | 2.20 | 11.833 | 123.86 | 17.833 | 1.65 | 23.83 | 1.10 |
| 5.867 | 2.20 | 11.867 | 123.86 | 17.867 | 1.65 | 23.87 | 1.10 |
| 5.900 | 2.20 | 11.900 | 123.86 | 17.900 | 1.65 | 23.90 | 1.10 |
| 5.933 | 2.20 | 11.933 | 123.86 | 17.933 | 1.65 | 23.93 | 1.10 |
| 5.967 | 2.20 | 11.967 | 123.86 | 17.967 | 1.65 | 23.97 | 1.10 |
| 6.000 | 2.20 | 12.000 | 123.72 | 18.000 | 1.65 | 24.00 | 1.10 |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 1.733 | 1.10 | 7.733  | 2.20   | 13.733 | 5.50 | 19.73 | 1.65 |
| 1.767 | 1.10 | 7.767  | 2.20   | 13.767 | 5.50 | 19.77 | 1.65 |
| 1.800 | 1.10 | 7.800  | 2.20   | 13.800 | 5.51 | 19.80 | 1.65 |
| 1.833 | 1.10 | 7.833  | 2.20   | 13.833 | 5.51 | 19.83 | 2.20 |
| 1.867 | 1.10 | 7.867  | 2.20   | 13.867 | 5.51 | 19.87 | 2.20 |
| 1.900 | 1.10 | 7.900  | 2.20   | 13.900 | 5.51 | 19.90 | 2.20 |
| 1.933 | 1.10 | 7.933  | 2.20   | 13.933 | 5.51 | 19.93 | 2.20 |
| 1.967 | 1.10 | 7.967  | 2.20   | 13.967 | 5.51 | 19.97 | 2.20 |
| 2.000 | 1.10 | 8.000  | 2.20   | 14.000 | 5.50 | 20.00 | 2.20 |
| 2.033 | 1.10 | 8.033  | 3.30   | 14.033 | 3.30 | 20.03 | 1.65 |
| 2.067 | 1.10 | 8.067  | 3.30   | 14.067 | 3.30 | 20.07 | 1.65 |
| 2.100 | 1.10 | 8.100  | 3.30   | 14.100 | 3.30 | 20.10 | 1.65 |
| 2.133 | 1.10 | 8.133  | 3.30   | 14.133 | 3.30 | 20.13 | 1.65 |
| 2.167 | 1.10 | 8.167  | 3.30   | 14.167 | 3.30 | 20.17 | 1.65 |
| 2.200 | 1.10 | 8.200  | 3.30   | 14.200 | 3.30 | 20.20 | 1.65 |
| 2.233 | 1.10 | 8.233  | 3.30   | 14.233 | 3.30 | 20.23 | 1.65 |
| 2.267 | 1.10 | 8.267  | 3.30   | 14.267 | 3.30 | 20.27 | 1.65 |
| 2.300 | 1.10 | 8.300  | 3.30   | 14.300 | 3.30 | 20.30 | 1.65 |
| 2.333 | 1.10 | 8.333  | 3.30   | 14.333 | 3.30 | 20.33 | 1.65 |
| 2.367 | 1.10 | 8.367  | 3.30   | 14.367 | 3.30 | 20.37 | 1.65 |
| 2.400 | 1.10 | 8.400  | 3.30   | 14.400 | 3.30 | 20.40 | 1.65 |
| 2.433 | 1.10 | 8.433  | 3.30   | 14.433 | 3.30 | 20.43 | 1.10 |
| 2.467 | 1.10 | 8.467  | 3.30   | 14.467 | 3.30 | 20.47 | 1.10 |
| 2.500 | 1.10 | 8.500  | 3.30   | 14.500 | 3.30 | 20.50 | 1.10 |
| 2.533 | 1.10 | 8.533  | 3.30   | 14.533 | 3.30 | 20.53 | 1.10 |
| 2.567 | 1.10 | 8.567  | 3.30   | 14.567 | 3.30 | 20.57 | 1.10 |
| 2.600 | 1.10 | 8.600  | 3.30   | 14.600 | 3.30 | 20.60 | 1.10 |
| 2.633 | 1.10 | 8.633  | 3.30   | 14.633 | 3.30 | 20.63 | 1.65 |
| 2.667 | 1.10 | 8.667  | 3.30   | 14.667 | 3.30 | 20.67 | 1.65 |
| 2.700 | 1.10 | 8.700  | 3.30   | 14.700 | 3.30 | 20.70 | 1.65 |
| 2.733 | 1.10 | 8.733  | 3.30   | 14.733 | 3.30 | 20.73 | 1.65 |
| 2.767 | 1.10 | 8.767  | 3.30   | 14.767 | 3.30 | 20.77 | 1.65 |
| 2.800 | 1.10 | 8.800  | 3.30   | 14.800 | 3.30 | 20.80 | 1.65 |
| 2.833 | 1.10 | 8.833  | 3.30   | 14.833 | 3.30 | 20.83 | 1.65 |
| 2.867 | 1.10 | 8.867  | 3.30   | 14.867 | 3.30 | 20.87 | 1.65 |
| 2.900 | 1.10 | 8.900  | 3.30   | 14.900 | 3.30 | 20.90 | 1.65 |
| 2.933 | 1.10 | 8.933  | 3.30   | 14.933 | 3.30 | 20.93 | 1.65 |
| 2.967 | 1.10 | 8.967  | 3.30   | 14.967 | 3.30 | 20.97 | 1.65 |
| 3.000 | 1.10 | 9.000  | 3.30   | 15.000 | 3.30 | 21.00 | 1.65 |
| 3.033 | 1.10 | 9.033  | 3.30   | 15.033 | 2.75 | 21.03 | 1.10 |
| 3.067 | 1.10 | 9.067  | 3.30   | 15.067 | 2.75 | 21.07 | 1.10 |
| 3.100 | 1.10 | 9.100  | 3.30   | 15.100 | 2.75 | 21.10 | 1.10 |
| 3.133 | 1.10 | 9.133  | 3.30   | 15.133 | 2.75 | 21.13 | 1.10 |
| 3.167 | 1.10 | 9.167  | 3.30   | 15.167 | 2.75 | 21.17 | 1.10 |
| 3.200 | 1.10 | 9.200  | 3.30   | 15.200 | 2.75 | 21.20 | 1.10 |
| 3.233 | 1.10 | 9.233  | 3.30   | 15.233 | 2.75 | 21.23 | 1.65 |
| 3.267 | 1.10 | 9.267  | 3.30   | 15.267 | 2.75 | 21.27 | 1.65 |
| 3.300 | 1.10 | 9.300  | 3.30   | 15.300 | 2.75 | 21.30 | 1.65 |
| 3.333 | 1.10 | 9.333  | 3.30   | 15.333 | 2.75 | 21.33 | 1.65 |
| 3.367 | 1.10 | 9.367  | 3.30   | 15.367 | 2.75 | 21.37 | 1.65 |
| 3.400 | 1.10 | 9.400  | 3.30   | 15.400 | 2.75 | 21.40 | 1.65 |
| 3.433 | 1.10 | 9.433  | 3.30   | 15.433 | 2.75 | 21.43 | 1.10 |
| 3.467 | 1.10 | 9.467  | 3.30   | 15.467 | 2.75 | 21.47 | 1.10 |
| 3.500 | 1.10 | 9.500  | 3.30   | 15.500 | 2.75 | 21.50 | 1.10 |
| 3.533 | 1.10 | 9.533  | 3.30   | 15.533 | 2.75 | 21.53 | 1.10 |
| 3.567 | 1.10 | 9.567  | 3.30   | 15.567 | 2.75 | 21.57 | 1.10 |
| 3.600 | 1.10 | 9.600  | 3.30   | 15.600 | 2.75 | 21.60 | 1.10 |
| 3.633 | 1.10 | 9.633  | 3.30   | 15.633 | 2.75 | 21.63 | 1.65 |
| 3.667 | 1.10 | 9.667  | 3.30   | 15.667 | 2.75 | 21.67 | 1.65 |
| 3.700 | 1.10 | 9.700  | 3.30   | 15.700 | 2.75 | 21.70 | 1.65 |
| 3.733 | 1.10 | 9.733  | 3.30   | 15.733 | 2.75 | 21.73 | 1.65 |
| 3.767 | 1.10 | 9.767  | 3.30   | 15.767 | 2.75 | 21.77 | 1.65 |
| 3.800 | 1.10 | 9.800  | 3.30   | 15.800 | 2.75 | 21.80 | 1.65 |
| 3.833 | 1.10 | 9.833  | 3.30   | 15.833 | 2.75 | 21.83 | 1.10 |
| 3.867 | 1.10 | 9.867  | 3.30   | 15.867 | 2.75 | 21.87 | 1.10 |
| 3.900 | 1.10 | 9.900  | 3.30   | 15.900 | 2.75 | 21.90 | 1.10 |
| 3.933 | 1.10 | 9.933  | 3.30   | 15.933 | 2.75 | 21.93 | 1.10 |
| 3.967 | 1.10 | 9.967  | 3.30   | 15.967 | 2.75 | 21.97 | 1.10 |
| 4.000 | 1.10 | 10.000 | 3.30   | 16.000 | 2.75 | 22.00 | 1.10 |
| 4.033 | 2.20 | 10.033 | 6.06   | 16.033 | 2.75 | 22.03 | 1.10 |
| 4.067 | 2.20 | 10.067 | 6.06   | 16.067 | 2.75 | 22.07 | 1.10 |
| 4.100 | 2.20 | 10.100 | 6.06   | 16.100 | 2.75 | 22.10 | 1.10 |
| 4.133 | 2.20 | 10.133 | 6.06   | 16.133 | 2.75 | 22.13 | 1.10 |
| 4.167 | 2.20 | 10.167 | 6.06   | 16.167 | 2.75 | 22.17 | 1.10 |
| 4.200 | 2.20 | 10.200 | 6.06   | 16.200 | 2.75 | 22.20 | 1.10 |
| 4.233 | 2.20 | 10.233 | 6.06   | 16.233 | 2.75 | 22.23 | 1.65 |
| 4.267 | 2.20 | 10.267 | 6.06   | 16.267 | 2.75 | 22.27 | 1.65 |
| 4.300 | 2.20 | 10.300 | 6.06   | 16.300 | 2.75 | 22.30 | 1.65 |
| 4.333 | 2.20 | 10.333 | 6.06   | 16.333 | 2.75 | 22.33 | 1.65 |
| 4.367 | 2.20 | 10.367 | 6.06   | 16.367 | 2.75 | 22.37 | 1.65 |
| 4.400 | 2.20 | 10.400 | 6.06   | 16.400 | 2.75 | 22.40 | 1.65 |
| 4.433 | 2.20 | 10.433 | 6.06   | 16.433 | 2.75 | 22.43 | 1.10 |
| 4.467 | 2.20 | 10.467 | 6.06   | 16.467 | 2.75 | 22.47 | 1.10 |
| 4.500 | 2.20 | 10.500 | 6.06   | 16.500 | 2.75 | 22.50 | 1.10 |
| 4.533 | 2.20 | 10.533 | 6.06   | 16.533 | 2.75 | 22.53 | 1.10 |
| 4.567 | 2.20 | 10.567 | 6.06   | 16.567 | 2.75 | 22.57 | 1.10 |
| 4.600 | 2.20 | 10.600 | 6.06   | 16.600 | 2.75 | 22.60 | 1.10 |
| 4.633 | 2.20 | 10.633 | 6.06   | 16.633 | 2.75 | 22.63 | 1.65 |
| 4.667 | 2.20 | 10.667 | 6.06   | 16.667 | 2.75 | 22.67 | 1.65 |
| 4.700 | 2.20 | 10.700 | 6.06   | 16.700 | 2.75 | 22.70 | 1.65 |
| 4.733 | 2.20 | 10.733 | 6.06   | 16.733 | 2.75 | 22.73 | 1.65 |
| 4.767 | 2.20 | 10.767 | 6.06   | 16.767 | 2.75 | 22.77 | 1.65 |
| 4.800 | 2.20 | 10.800 | 6.06   | 16.800 | 2.75 | 22.80 | 1.65 |
| 4.833 | 2.20 | 10.833 | 6.06   | 16.833 | 1.65 | 22.83 | 1.10 |
| 4.867 | 2.20 | 10.867 | 6.06   | 16.867 | 1.65 | 22.87 | 1.10 |
| 4.900 | 2.20 | 10.900 | 6.06   | 16.900 | 1.65 | 22.90 | 1.10 |
| 4.933 | 2.20 | 10.933 | 6.06   | 16.933 | 1.65 | 22.93 | 1.10 |
| 4.967 | 2.20 | 10.967 | 6.06   | 16.967 | 1.65 | 22.97 | 1.10 |
| 5.000 | 2.20 | 11.000 | 6.06   | 17.000 | 1.65 | 23.00 | 1.10 |
| 5.033 | 2.20 | 11.033 | 8.26   | 17.033 | 1.65 | 23.03 | 1.10 |
| 5.067 | 2.20 | 11.067 | 8.26   | 17.067 | 1.65 | 23.07 | 1.10 |
| 5.100 | 2.20 | 11.100 | 8.26   | 17.100 | 1.65 | 23.10 | 1.10 |
| 5.133 | 2.20 | 11.133 | 8.26   | 17.133 | 1.65 | 23.13 | 1.10 |
| 5.167 | 2.20 | 11.167 | 8.26   | 17.167 | 1.65 | 23.17 | 1.10 |
| 5.200 | 2.20 | 11.200 | 8.26   | 17.200 | 1.65 | 23.20 | 1.10 |
| 5.233 | 2.20 | 11.233 | 12.11  | 17.233 | 2.20 | 23.23 | 1.10 |
| 5.267 | 2.20 | 11.267 | 12.11  | 17.267 | 2.20 | 23.27 | 1.10 |
| 5.300 | 2.20 | 11.300 | 12.11  | 17.300 | 2.20 | 23.30 | 1.10 |
| 5.333 | 2.20 | 11.333 | 12.11  | 17.333 | 2.20 | 23.33 | 1.10 |
| 5.367 | 2.20 | 11.367 | 12.11  | 17.367 | 2.20 | 23.37 | 1.10 |
| 5.400 | 2.20 | 11.400 | 12.13  | 17.400 | 2.20 | 23.40 | 1.10 |
| 5.433 | 2.20 | 11.433 | 29.18  | 17.433 | 1.65 | 23.43 | 1.65 |
| 5.467 | 2.20 | 11.467 | 29.18  | 17.467 | 1.65 | 23.47 | 1.65 |
| 5.500 | 2.20 | 11.500 | 29.18  | 17.500 | 1.65 | 23.50 | 1.65 |
| 5.533 | 2.20 | 11.533 | 29.18  | 17.533 | 1.65 | 23.53 | 1.65 |
| 5.567 | 2.20 | 11.567 | 29.18  | 17.567 | 1.65 | 23.57 | 1.65 |
| 5.600 | 2.20 | 11.600 | 29.22  | 17.600 | 1.65 | 23.60 | 1.65 |
| 5.633 | 2.20 | 11.633 | 60.56  | 17.633 | 2.20 | 23.63 | 1.10 |
| 5.667 | 2.20 | 11.667 | 60.56  | 17.667 | 2.20 | 23.67 | 1.10 |
| 5.700 | 2.20 | 11.700 | 60.56  | 17.700 | 2.20 | 23.70 | 1.10 |
| 5.733 | 2.20 | 11.733 | 60.56  | 17.733 | 2.20 | 23.73 | 1.10 |
| 5.767 | 2.20 | 11.767 | 60.56  | 17.767 | 2.20 | 23.77 | 1.10 |
| 5.800 | 2.20 | 11.800 | 60.64  | 17.800 | 2.20 | 23.80 | 1.10 |
| 5.833 | 2.20 | 11.833 | 123.86 | 17.833 | 1.65 | 23.83 | 1.10 |
| 5.867 | 2.20 | 11.867 | 123.86 | 17.867 | 1.65 | 23.87 | 1.10 |
| 5.900 | 2.20 | 11.900 | 123.86 | 17.900 | 1.65 | 23.90 | 1.10 |
| 5.933 | 2.20 | 11.933 | 123.86 | 17.933 | 1.65 | 23.93 | 1.10 |

5.967 2.20 11.967 123.86 17.967 1.65 23.97 1.10  
6.000 2.20 12.000 123.72 18.000 1.65 24.00 1.10

Unit Hyd Qpeak (cms)= 0.793

PEAK FLOW (cms)= 0.671 (i)  
TIME TO PEAK (hrs)= 12.333  
RUNOFF VOLUME (mm)= 50.641  
TOTAL RAINFALL (mm)= 110.099  
RUNOFF COEFFICIENT = 0.460

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0032 )   | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
|--------------------|-----------|-------------|-------------|-----------|
| 1 + 2 = 3          |           |             |             |           |
| ID1= 1 ( 0501 ):   | 8.72      | 0.671       | 12.33       | 50.64     |
| + ID2= 2 ( 0502 ): | 0.53      | 0.062       | 12.10       | 50.64     |
| ID = 3 ( 0032 ):   | 9.25      | 0.717       | 12.30       | 50.64     |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD ( 0033 )   | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
|--------------------|-----------|-------------|-------------|-----------|
| 1 + 2 = 3          |           |             |             |           |
| ID1= 1 ( 0201 ):   | 5.08      | 0.056       | 14.20       | 61.27     |
| + ID2= 2 ( 0032 ): | 9.25      | 0.717       | 12.30       | 50.64     |
| ID = 3 ( 0033 ):   | 14.33     | 0.758       | 12.30       | 54.41     |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB NASHLY ( 9401 ) | Area (ha)     | Curve Number (CN)= 81.0    |
|-----------------------|---------------|----------------------------|
| ID= 1 DT= 2.0 min     | Ia (mm)= 6.90 | # of Linear Res. (N)= 3.00 |
| U.H. Tp(hrs)=         | 0.16          |                            |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME  | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
|-------|-------|-------|-------|--------|-------|-------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033 | 1.10  | 6.033 | 2.20  | 12.033 | 22.02 | 18.03 | 1.65  |
| 0.067 | 1.10  | 6.067 | 2.20  | 12.067 | 22.02 | 18.07 | 1.65  |
| 0.100 | 1.10  | 6.100 | 2.20  | 12.100 | 22.02 | 18.10 | 1.65  |
| 0.133 | 1.10  | 6.133 | 2.20  | 12.133 | 22.02 | 18.13 | 1.65  |
| 0.167 | 1.10  | 6.167 | 2.20  | 12.167 | 22.02 | 18.17 | 1.    |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 2.600 | 1.10 | 8.600  | 3.30   | 14.600 | 3.30 | 20.60 | 1.10 |
| 2.633 | 1.10 | 8.633  | 3.30   | 14.633 | 3.30 | 20.63 | 1.65 |
| 2.667 | 1.10 | 8.667  | 3.30   | 14.667 | 3.30 | 20.67 | 1.65 |
| 2.700 | 1.10 | 8.700  | 3.30   | 14.700 | 3.30 | 20.70 | 1.65 |
| 2.733 | 1.10 | 8.733  | 3.30   | 14.733 | 3.30 | 20.73 | 1.65 |
| 2.767 | 1.10 | 8.767  | 3.30   | 14.767 | 3.30 | 20.77 | 1.65 |
| 2.800 | 1.10 | 8.800  | 3.30   | 14.800 | 3.30 | 20.80 | 1.65 |
| 2.833 | 1.10 | 8.833  | 3.30   | 14.833 | 3.30 | 20.83 | 1.65 |
| 2.867 | 1.10 | 8.867  | 3.30   | 14.867 | 3.30 | 20.87 | 1.65 |
| 2.900 | 1.10 | 8.900  | 3.30   | 14.900 | 3.30 | 20.90 | 1.65 |
| 2.933 | 1.10 | 8.933  | 3.30   | 14.933 | 3.30 | 20.93 | 1.65 |
| 2.967 | 1.10 | 8.967  | 3.30   | 14.967 | 3.30 | 20.97 | 1.65 |
| 3.000 | 1.10 | 9.000  | 3.30   | 15.000 | 3.30 | 21.00 | 1.65 |
| 3.033 | 1.10 | 9.033  | 3.30   | 15.033 | 2.75 | 21.03 | 1.10 |
| 3.067 | 1.10 | 9.067  | 3.30   | 15.067 | 2.75 | 21.07 | 1.10 |
| 3.100 | 1.10 | 9.100  | 3.30   | 15.100 | 2.75 | 21.10 | 1.10 |
| 3.133 | 1.10 | 9.133  | 3.30   | 15.133 | 2.75 | 21.13 | 1.10 |
| 3.167 | 1.10 | 9.167  | 3.30   | 15.167 | 2.75 | 21.17 | 1.10 |
| 3.200 | 1.10 | 9.200  | 3.30   | 15.200 | 2.75 | 21.20 | 1.10 |
| 3.233 | 1.10 | 9.233  | 3.30   | 15.233 | 2.75 | 21.23 | 1.65 |
| 3.267 | 1.10 | 9.267  | 3.30   | 15.267 | 2.75 | 21.27 | 1.65 |
| 3.300 | 1.10 | 9.300  | 3.30   | 15.300 | 2.75 | 21.30 | 1.65 |
| 3.333 | 1.10 | 9.333  | 3.30   | 15.333 | 2.75 | 21.33 | 1.65 |
| 3.367 | 1.10 | 9.367  | 3.30   | 15.367 | 2.75 | 21.37 | 1.65 |
| 3.400 | 1.10 | 9.400  | 3.30   | 15.400 | 2.75 | 21.40 | 1.65 |
| 3.433 | 1.10 | 9.433  | 3.30   | 15.433 | 2.75 | 21.43 | 1.10 |
| 3.467 | 1.10 | 9.467  | 3.30   | 15.467 | 2.75 | 21.47 | 1.10 |
| 3.500 | 1.10 | 9.500  | 3.30   | 15.500 | 2.75 | 21.50 | 1.10 |
| 3.533 | 1.10 | 9.533  | 3.30   | 15.533 | 2.75 | 21.53 | 1.10 |
| 3.567 | 1.10 | 9.567  | 3.30   | 15.567 | 2.75 | 21.57 | 1.10 |
| 3.600 | 1.10 | 9.600  | 3.30   | 15.600 | 2.75 | 21.60 | 1.10 |
| 3.633 | 1.10 | 9.633  | 3.30   | 15.633 | 2.75 | 21.63 | 1.65 |
| 3.667 | 1.10 | 9.667  | 3.30   | 15.667 | 2.75 | 21.67 | 1.65 |
| 3.700 | 1.10 | 9.700  | 3.30   | 15.700 | 2.75 | 21.70 | 1.65 |
| 3.733 | 1.10 | 9.733  | 3.30   | 15.733 | 2.75 | 21.73 | 1.65 |
| 3.767 | 1.10 | 9.767  | 3.30   | 15.767 | 2.75 | 21.77 | 1.65 |
| 3.800 | 1.10 | 9.800  | 3.30   | 15.800 | 2.75 | 21.80 | 1.65 |
| 3.833 | 1.10 | 9.833  | 3.30   | 15.833 | 2.75 | 21.83 | 1.10 |
| 3.867 | 1.10 | 9.867  | 3.30   | 15.867 | 2.75 | 21.87 | 1.10 |
| 3.900 | 1.10 | 9.900  | 3.30   | 15.900 | 2.75 | 21.90 | 1.10 |
| 3.933 | 1.10 | 9.933  | 3.30   | 15.933 | 2.75 | 21.93 | 1.10 |
| 3.967 | 1.10 | 9.967  | 3.30   | 15.967 | 2.75 | 21.97 | 1.10 |
| 4.000 | 1.10 | 10.000 | 3.30   | 16.000 | 2.75 | 22.00 | 1.10 |
| 4.033 | 1.10 | 10.033 | 6.06   | 16.033 | 2.75 | 22.03 | 1.10 |
| 4.067 | 2.20 | 10.067 | 6.06   | 16.067 | 2.75 | 22.07 | 1.10 |
| 4.100 | 2.20 | 10.100 | 6.06   | 16.100 | 2.75 | 22.10 | 1.10 |
| 4.133 | 2.20 | 10.133 | 6.06   | 16.133 | 2.75 | 22.13 | 1.10 |
| 4.167 | 2.20 | 10.167 | 6.06   | 16.167 | 2.75 | 22.17 | 1.10 |
| 4.200 | 2.20 | 10.200 | 6.06   | 16.200 | 2.75 | 22.20 | 1.10 |
| 4.233 | 2.20 | 10.233 | 6.06   | 16.233 | 2.75 | 22.23 | 1.65 |
| 4.267 | 2.20 | 10.267 | 6.06   | 16.267 | 2.75 | 22.27 | 1.65 |
| 4.300 | 2.20 | 10.300 | 6.06   | 16.300 | 2.75 | 22.30 | 1.65 |
| 4.333 | 2.20 | 10.333 | 6.06   | 16.333 | 2.75 | 22.33 | 1.65 |
| 4.367 | 2.20 | 10.367 | 6.06   | 16.367 | 2.75 | 22.37 | 1.65 |
| 4.400 | 2.20 | 10.400 | 6.06   | 16.400 | 2.75 | 22.40 | 1.65 |
| 4.433 | 2.20 | 10.433 | 6.06   | 16.433 | 2.75 | 22.43 | 1.10 |
| 4.467 | 2.20 | 10.467 | 6.06   | 16.467 | 2.75 | 22.47 | 1.10 |
| 4.500 | 2.20 | 10.500 | 6.06   | 16.500 | 2.75 | 22.50 | 1.10 |
| 4.533 | 2.20 | 10.533 | 6.06   | 16.533 | 2.75 | 22.53 | 1.10 |
| 4.567 | 2.20 | 10.567 | 6.06   | 16.567 | 2.75 | 22.57 | 1.10 |
| 4.600 | 2.20 | 10.600 | 6.06   | 16.600 | 2.75 | 22.60 | 1.10 |
| 4.633 | 2.20 | 10.633 | 6.06   | 16.633 | 2.75 | 22.63 | 1.65 |
| 4.667 | 2.20 | 10.667 | 6.06   | 16.667 | 2.75 | 22.67 | 1.65 |
| 4.700 | 2.20 | 10.700 | 6.06   | 16.700 | 2.75 | 22.70 | 1.65 |
| 4.733 | 2.20 | 10.733 | 6.06   | 16.733 | 2.75 | 22.73 | 1.65 |
| 4.767 | 2.20 | 10.767 | 6.06   | 16.767 | 2.75 | 22.77 | 1.65 |
| 4.800 | 2.20 | 10.800 | 6.06   | 16.800 | 2.75 | 22.80 | 1.65 |
| 4.833 | 2.20 | 10.833 | 6.06   | 16.833 | 1.65 | 22.83 | 1.10 |
| 4.867 | 2.20 | 10.867 | 6.06   | 16.867 | 1.65 | 22.87 | 1.10 |
| 4.900 | 2.20 | 10.900 | 6.06   | 16.900 | 1.65 | 22.90 | 1.10 |
| 4.933 | 2.20 | 10.933 | 6.06   | 16.933 | 1.65 | 22.93 | 1.10 |
| 4.967 | 2.20 | 10.967 | 6.06   | 16.967 | 1.65 | 22.97 | 1.10 |
| 5.000 | 2.20 | 11.000 | 6.06   | 17.000 | 1.65 | 23.00 | 1.10 |
| 5.033 | 2.20 | 11.033 | 8.26   | 17.033 | 1.65 | 23.03 | 1.10 |
| 5.067 | 2.20 | 11.067 | 8.26   | 17.067 | 1.65 | 23.07 | 1.10 |
| 5.100 | 2.20 | 11.100 | 8.26   | 17.100 | 1.65 | 23.10 | 1.10 |
| 5.133 | 2.20 | 11.133 | 8.26   | 17.133 | 1.65 | 23.13 | 1.10 |
| 5.167 | 2.20 | 11.167 | 8.26   | 17.167 | 1.65 | 23.17 | 1.10 |
| 5.200 | 2.20 | 11.200 | 8.26   | 17.200 | 1.65 | 23.20 | 1.10 |
| 5.233 | 2.20 | 11.233 | 12.11  | 17.233 | 2.20 | 23.23 | 1.10 |
| 5.267 | 2.20 | 11.267 | 12.11  | 17.267 | 2.20 | 23.27 | 1.10 |
| 5.300 | 2.20 | 11.300 | 12.11  | 17.300 | 2.20 | 23.30 | 1.10 |
| 5.333 | 2.20 | 11.333 | 12.11  | 17.333 | 2.20 | 23.33 | 1.10 |
| 5.367 | 2.20 | 11.367 | 12.11  | 17.367 | 2.20 | 23.37 | 1.10 |
| 5.400 | 2.20 | 11.400 | 12.13  | 17.400 | 2.20 | 23.40 | 1.10 |
| 5.433 | 2.20 | 11.433 | 29.18  | 17.433 | 1.65 | 23.43 | 1.65 |
| 5.467 | 2.20 | 11.467 | 29.18  | 17.467 | 1.65 | 23.47 | 1.65 |
| 5.500 | 2.20 | 11.500 | 29.18  | 17.500 | 1.65 | 23.50 | 1.65 |
| 5.533 | 2.20 | 11.533 | 29.18  | 17.533 | 1.65 | 23.53 | 1.65 |
| 5.567 | 2.20 | 11.567 | 29.18  | 17.567 | 1.65 | 23.57 | 1.65 |
| 5.600 | 2.20 | 11.600 | 29.22  | 17.600 | 1.65 | 23.60 | 1.65 |
| 5.633 | 2.20 | 11.633 | 60.56  | 17.633 | 2.20 | 23.63 | 1.10 |
| 5.667 | 2.20 | 11.667 | 60.56  | 17.667 | 2.20 | 23.67 | 1.10 |
| 5.700 | 2.20 | 11.700 | 60.56  | 17.700 | 2.20 | 23.70 | 1.10 |
| 5.733 | 2.20 | 11.733 | 60.56  | 17.733 | 2.20 | 23.73 | 1.10 |
| 5.767 | 2.20 | 11.767 | 60.56  | 17.767 | 2.20 | 23.77 | 1.10 |
| 5.800 | 2.20 | 11.800 | 60.64  | 17.800 | 2.20 | 23.80 | 1.10 |
| 5.833 | 2.20 | 11.833 | 123.86 | 17.833 | 1.65 | 23.83 | 1.10 |
| 5.867 | 2.20 | 11.867 | 123.86 | 17.867 | 1.65 | 23.87 | 1.10 |
| 5.900 | 2.20 | 11.900 | 123.86 | 17.900 | 1.65 | 23.90 | 1.10 |
| 5.933 | 2.20 | 11.933 | 123.86 | 17.933 | 1.65 | 23.93 | 1.10 |
| 5.967 | 2.20 | 11.967 | 123.86 | 17.967 | 1.65 | 23.97 | 1.10 |
| 6.000 | 2.20 | 12.000 | 123.72 | 18.000 | 1.65 | 24.00 | 1.10 |

Unit Hyd Qpeak (cms)= 1.425

PEAK FLOW (cms)= 1.082 (i)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 65.418  
TOTAL RAINFALL (mm)= 110.099  
RUNOFF COEFFICIENT = 0.594

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |               |      |                           |
|-------------------|---------------|------|---------------------------|
| CALIB             |               |      |                           |
| NASHYD ( 0402)    | Area (ha)=    | 7.58 | Curve Number (CN)= 81.0   |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 6.90 | # of Linear Res.(N)= 3.00 |
|                   | U.H. Tp(hrs)= | 0.16 |                           |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME | RAIN  | TIME | RAIN  | TIME | RAIN  | TIME | RAIN  |
|------|-------|------|-------|------|-------|------|-------|
| hrs  | mm/hr | hrs  | mm/hr | hrs  | mm/hr | hrs  | mm/hr |

|       |      |        |      |        |       |       |      |
|-------|------|--------|------|--------|-------|-------|------|
| 0.033 | 1.10 | 6.033  | 2.20 | 12.033 | 22.02 | 18.03 | 1.65 |
| 0.067 | 1.10 | 6.067  | 2.20 | 12.067 | 22.02 | 18.07 | 1.65 |
| 0.100 | 1.10 | 6.100  | 2.20 | 12.100 | 22.02 | 18.10 | 1.65 |
| 0.133 | 1.10 | 6.133  | 2.20 | 12.133 | 22.02 | 18.13 | 1.65 |
| 0.167 | 1.10 | 6.167  | 2.20 | 12.167 | 22.02 | 18.17 | 1.65 |
| 0.200 | 1.10 | 6.200  | 2.20 | 12.200 | 22.01 | 18.20 | 1.65 |
| 0.233 | 1.10 | 6.233  | 2.20 | 12.233 | 13.76 | 18.23 | 1.65 |
| 0.267 | 1.10 | 6.267  | 2.20 | 12.267 | 13.76 | 18.27 | 1.65 |
| 0.300 | 1.10 | 6.300  | 2.20 | 12.300 | 13.76 | 18.30 | 1.65 |
| 0.333 | 1.10 | 6.333  | 2.20 | 12.333 | 13.76 | 18.33 | 1.65 |
| 0.367 | 1.10 | 6.367  | 2.20 | 12.367 | 13.76 | 18.37 | 1.65 |
| 0.400 | 1.10 | 6.400  | 2.20 | 12.400 | 13.76 | 18.40 | 1.65 |
| 0.433 | 1.10 | 6.433  | 2.20 | 12.433 | 9.91  | 18.43 | 2.20 |
| 0.467 | 1.10 | 6.467  | 2.20 | 12.467 | 9.91  | 18.47 | 2.20 |
| 0.500 | 1.10 | 6.500  | 2.20 | 12.500 | 9.91  | 18.50 | 2.20 |
| 0.533 | 1.10 | 6.533  | 2.20 | 12.533 | 9.91  | 18.53 | 2.20 |
| 0.567 | 1.10 | 6.567  | 2.20 | 12.567 | 9.91  | 18.57 | 2.20 |
| 0.600 | 1.10 | 6.600  | 2.20 | 12.600 | 9.91  | 18.60 | 2.20 |
| 0.633 | 1.10 | 6.633  | 2.20 | 12.633 | 9.36  | 18.63 | 1.65 |
| 0.667 | 1.10 | 6.667  | 2.20 | 12.667 | 9.36  | 18.67 | 1.65 |
| 0.700 | 1.10 | 6.700  | 2.20 | 12.700 | 9.36  | 18.70 | 1.65 |
| 0.733 | 1.10 | 6.733  | 2.20 | 12.733 | 9.36  | 18.73 | 1.65 |
| 0.767 | 1.10 | 6.767  | 2.20 | 12.767 | 9.36  | 18.77 | 1.65 |
| 0.800 | 1.10 | 6.800  | 2.20 | 12.800 | 9.35  | 18.80 | 1.65 |
| 0.833 | 1.10 | 6.833  | 2.20 | 12.833 | 6.61  | 18.83 | 1.65 |
| 0.867 | 1.10 | 6.867  | 2.20 | 12.867 | 6.61  | 18.87 | 1.65 |
| 0.900 | 1.10 | 6.900  | 2.20 | 12.900 | 6.61  | 18.90 | 1.65 |
| 0.933 | 1.10 | 6.933  | 2.20 | 12.933 | 6.61  | 18.93 | 1.65 |
| 0.967 | 1.10 | 6.967  | 2.20 | 12.967 | 6.61  | 18.97 | 1.65 |
| 1.000 | 1.10 | 7.000  | 2.20 | 13.000 | 6.60  | 19.00 | 1.65 |
| 1.033 | 1.10 | 7.033  | 2.20 | 13.033 | 5.50  | 19.03 | 2.20 |
| 1.067 | 1.10 | 7.067  | 2.20 | 13.067 | 5.50  | 19.07 | 2.20 |
| 1.100 | 1.10 | 7.100  | 2.20 | 13.100 | 5.50  | 19.10 | 2.20 |
| 1.133 | 1.10 | 7.133  | 2.20 | 13.133 | 5.50  | 19.13 | 2.20 |
| 1.167 | 1.10 | 7.167  | 2.20 | 13.167 | 5.50  | 19.17 | 2.20 |
| 1.200 | 1.10 | 7.200  | 2.20 | 13.200 | 5.51  | 19.20 | 2.20 |
| 1.233 | 1.10 | 7.233  | 2.20 | 13.233 | 5.50  | 19.23 | 1.65 |
| 1.267 | 1.10 | 7.267  | 2.20 | 13.267 | 5.50  | 19.27 | 1.65 |
| 1.300 | 1.10 | 7.300  | 2.20 | 13.300 | 5.50  | 19.30 | 1.65 |
| 1.333 | 1.10 | 7.333  | 2.20 | 13.333 | 5.50  | 19.33 | 1.65 |
| 1.367 | 1.10 | 7.367  | 2.20 | 13.367 | 5.50  | 19.37 | 1.65 |
| 1.400 | 1.10 | 7.400  | 2.20 | 13.400 | 5.51  | 19.40 | 1.65 |
| 1.433 | 1.10 | 7.433  | 2.20 | 13.433 | 5.50  | 19.43 | 2.20 |
| 1.467 | 1.10 | 7.467  | 2.20 | 13.467 | 5.50  | 19.47 | 2.20 |
| 1.500 | 1.10 | 7.500  | 2.20 | 13.500 | 5.50  | 19.50 | 2.20 |
| 1.533 | 1.10 | 7.533  | 2.20 | 13.533 | 5.50  | 19.53 | 2.20 |
| 1.567 | 1.10 | 7.567  | 2.20 | 13.567 | 5.50  | 19.57 | 2.20 |
| 1.600 | 1.10 | 7.600  | 2.20 | 13.600 | 5.51  | 19.60 | 2.20 |
| 1.633 | 1.10 | 7.633  | 2.20 | 13.633 | 5.50  | 19.63 | 1.65 |
| 1.667 | 1.10 | 7.667  | 2.20 | 13.667 | 5.50  | 19.67 | 1.65 |
| 1.700 | 1.10 | 7.700  | 2.20 | 13.700 | 5.50  | 19.70 | 1.65 |
| 1.733 | 1.10 | 7.733  | 2.20 | 13.733 | 5.50  | 19.73 | 1.65 |
| 1.767 | 1.10 | 7.767  | 2.20 | 13.767 | 5.50  | 19.77 | 1.65 |
| 1.800 | 1.10 | 7.800  | 2.20 | 13.800 | 5.51  | 19.80 | 1.65 |
| 1.833 | 1.10 | 7.833  | 2.20 | 13.833 | 5.51  | 19.83 | 2.20 |
| 1.867 | 1.10 | 7.867  | 2.20 | 13.867 | 5.51  | 19.87 | 2.20 |
| 1.900 | 1.10 | 7.900  | 2.20 | 13.900 | 5.51  | 19.90 | 2.20 |
| 1.933 | 1.10 | 7.933  | 2.20 | 13.933 | 5.51  | 19.93 | 2.20 |
| 1.967 | 1.10 | 7.967  | 2.20 | 13.967 | 5.51  | 19.97 | 2.20 |
| 2.000 | 1.10 | 8.000  | 2.20 | 14.000 | 5.50  | 20.00 | 2.20 |
| 2.033 | 1.10 | 8.033  | 3.30 | 14.033 | 3.30  | 20.03 | 1.65 |
| 2.067 | 1.10 | 8.067  | 3.30 | 14.067 | 3.30  | 20.07 | 1.65 |
| 2.100 | 1.10 | 8.100  | 3.30 | 14.100 | 3.30  | 20.10 | 1.65 |
| 2.133 | 1.10 | 8.133  | 3.30 | 14.133 | 3.30  | 20.13 | 1.65 |
| 2.167 | 1.10 | 8.167  | 3.30 | 14.167 | 3.30  | 20.17 | 1.65 |
| 2.200 | 1.10 | 8.200  | 3.30 | 14.200 | 3.30  | 20.20 | 1.65 |
| 2.233 | 1.10 | 8.233  | 3.30 | 14.233 | 3.30  | 20.23 | 1.65 |
| 2.267 | 1.10 | 8.267  | 3.30 | 14.267 | 3.30  | 20.27 | 1.65 |
| 2.300 | 1.10 | 8.300  | 3.30 | 14.300 | 3.30  | 20.30 | 1.65 |
| 2.333 | 1.10 | 8.333  | 3.30 | 14.333 | 3.30  | 20.33 | 1.65 |
| 2.367 | 1.10 | 8.367  | 3.30 | 14.367 | 3.30  | 20.37 | 1.65 |
| 2.400 | 1.10 | 8.400  | 3.30 | 14.400 | 3.30  | 20.40 | 1.65 |
| 2.433 | 1.10 | 8.433  | 3.30 | 14.433 | 3.30  | 20.43 | 1.10 |
| 2.467 | 1.10 | 8.467  | 3.30 | 14.467 | 3.30  | 20.47 | 1.10 |
| 2.500 | 1.10 | 8.500  | 3.30 | 14.500 | 3.30  | 20.50 | 1.10 |
| 2.533 | 1.10 | 8.533  | 3.30 | 14.533 | 3.30  | 20.53 | 1.10 |
| 2.567 | 1.10 | 8.567  | 3.30 | 14.567 | 3.30  | 20.57 | 1.10 |
| 2.600 | 1.10 | 8.600  | 3.30 | 14.600 | 3.30  | 20.60 | 1.10 |
| 2.633 | 1.10 | 8.633  | 3.30 | 14.633 | 3.30  | 20.63 | 1.65 |
| 2.667 | 1.10 | 8.667  | 3.30 | 14.667 | 3.30  | 20.67 | 1.65 |
| 2.700 | 1.10 | 8.700  | 3.30 | 14.700 | 3.30  | 20.70 | 1.65 |
| 2.733 | 1.10 | 8.733  | 3.30 | 14.733 | 3.30  | 20.73 | 1.65 |
| 2.767 | 1.10 | 8.767  | 3.30 | 14.767 | 3.30  | 20.77 | 1.65 |
| 2.800 | 1.10 | 8.800  | 3.30 | 14.800 | 3.30  | 20.80 | 1.65 |
| 2.833 | 1.10 | 8.833  | 3.30 | 14.833 | 3.30  | 20.83 | 1.65 |
| 2.867 | 1.10 | 8.867  | 3.30 | 14.867 | 3.30  | 20.87 | 1.65 |
| 2.900 | 1.10 | 8.900  | 3.30 | 14.900 | 3.30  | 20.90 | 1.65 |
| 2.933 | 1.10 | 8.933  | 3.30 | 14.933 | 3.30  | 20.93 | 1.65 |
| 2.967 | 1.10 | 8.967  | 3.30 | 14.967 | 3.30  | 20.97 | 1.65 |
| 3.000 | 1.10 | 9.000  | 3.30 | 15.000 | 3.30  | 21.00 | 1.65 |
| 3.033 | 1.10 | 9.033  | 3.30 | 15.033 | 2.75  | 21.03 | 1.10 |
| 3.067 | 1.10 | 9.067  | 3.30 | 15.067 | 2.75  | 21.07 | 1.10 |
| 3.100 | 1.10 | 9.100  | 3.30 | 15.100 | 2.75  | 21.10 | 1.10 |
| 3.133 | 1.10 | 9.133  | 3.30 | 15.133 | 2.75  | 21.13 | 1.10 |
| 3.167 | 1.10 | 9.167  | 3.30 | 15.167 | 2.75  | 21.17 | 1.10 |
| 3.200 | 1.10 | 9.200  | 3.30 | 15.200 | 2.75  | 21.20 | 1.10 |
| 3.233 | 1.10 | 9.233  | 3.30 | 15.233 | 2.75  | 21.23 | 1.65 |
| 3.267 | 1.10 | 9.267  | 3.30 | 15.267 | 2.75  | 21.27 | 1.65 |
| 3.300 | 1.10 | 9.300  | 3.30 | 15.300 | 2.75  | 21.30 | 1.65 |
| 3.333 | 1.10 | 9.333  | 3.30 | 15.333 | 2.75  | 21.33 | 1.65 |
| 3.367 | 1.10 | 9.367  | 3.30 | 15.367 | 2.75  | 21.37 | 1.65 |
| 3.400 | 1.10 | 9.400  | 3.30 | 15.400 | 2.75  | 21.40 | 1.65 |
| 3.433 | 1.10 | 9.433  | 3.30 | 15.433 | 2.75  | 21.43 | 1.10 |
| 3.467 | 1.10 | 9.467  | 3.30 | 15.467 | 2.75  | 21.47 | 1.10 |
| 3.500 | 1.10 | 9.500  | 3.30 | 15.500 | 2.75  | 21.50 | 1.10 |
| 3.533 | 1.10 | 9.533  | 3.30 | 15.533 | 2.75  | 21.53 | 1.10 |
| 3.567 | 1.10 | 9.567  | 3.30 | 15.567 | 2.75  | 21.57 | 1.10 |
| 3.600 | 1.10 | 9.600  | 3.30 | 15.600 | 2.75  | 21.60 | 1.10 |
| 3.633 | 1.10 | 9.633  | 3.30 | 15.633 | 2.75  | 21.63 | 1.65 |
| 3.667 | 1.10 | 9.667  | 3.30 | 15.667 | 2.75  | 21.67 | 1.65 |
| 3.700 | 1.10 | 9.700  | 3.30 | 15.700 | 2.75  | 21.70 | 1.65 |
| 3.733 | 1.10 | 9.733  | 3.30 | 15.733 | 2.75  | 21.73 | 1.65 |
| 3.767 | 1.10 | 9.767  | 3.30 | 15.767 | 2.75  | 21.77 | 1.65 |
| 3.800 | 1.10 | 9.800  | 3.30 | 15.800 | 2.75  | 21.80 | 1.65 |
| 3.833 | 1.10 | 9.833  | 3.30 | 15.833 | 2.75  | 21.83 | 1.10 |
| 3.867 | 1.10 | 9.867  | 3.30 | 15.867 | 2.75  | 21.87 | 1.10 |
| 3.900 | 1.10 | 9.900  | 3.30 | 15.900 | 2.75  | 21.90 | 1.10 |
| 3.933 | 1.10 | 9.933  | 3.30 | 15.933 | 2.75  | 21.93 | 1.10 |
| 3.967 | 1.10 | 9.967  | 3.30 | 15.967 | 2.75  | 21.97 | 1.10 |
| 4.000 | 2.20 | 10.000 | 6.06 | 16.000 | 2.75  | 22.00 | 1.10 |
| 4.033 | 2.20 | 10.033 | 6.06 | 16.033 | 2.75  | 22.03 | 1.10 |
| 4.067 | 2.20 | 10.067 | 6.06 | 16.067 | 2.75  | 22.07 | 1.10 |
| 4.100 | 2.20 | 10.100 | 6.06 | 16.100 | 2.75  | 22.10 | 1.10 |
| 4.133 | 2.20 | 10.133 | 6.06 | 16.133 | 2.75  | 22.13 | 1.10 |
| 4.167 | 2.20 | 10.167 | 6.06 | 16.167 | 2.75  | 22.17 | 1.10 |
| 4.200 | 2.20 | 10.200 | 6.06 | 16.200 | 2.75  | 22.20 | 1.10 |
| 4.233 | 2.20 | 10.233 | 6.06 | 16.233 | 2.75  | 22.23 | 1.65 |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 4.267 | 2.20 | 10.267 | 6.06   | 16.267 | 2.75 | 22.27 | 1.65 |
| 4.300 | 2.20 | 10.300 | 6.06   | 16.300 | 2.75 | 22.30 | 1.65 |
| 4.333 | 2.20 | 10.333 | 6.06   | 16.333 | 2.75 | 22.33 | 1.65 |
| 4.367 | 2.20 | 10.367 | 6.06   | 16.367 | 2.75 | 22.37 | 1.65 |
| 4.400 | 2.20 | 10.400 | 6.06   | 16.400 | 2.75 | 22.40 | 1.65 |
| 4.433 | 2.20 | 10.433 | 6.06   | 16.433 | 2.75 | 22.43 | 1.10 |
| 4.467 | 2.20 | 10.467 | 6.06   | 16.467 | 2.75 | 22.47 | 1.10 |
| 4.500 | 2.20 | 10.500 | 6.06   | 16.500 | 2.75 | 22.50 | 1.10 |
| 4.533 | 2.20 | 10.533 | 6.06   | 16.533 | 2.75 | 22.53 | 1.10 |
| 4.567 | 2.20 | 10.567 | 6.06   | 16.567 | 2.75 | 22.57 | 1.10 |
| 4.600 | 2.20 | 10.600 | 6.06   | 16.600 | 2.75 | 22.60 | 1.10 |
| 4.633 | 2.20 | 10.633 | 6.06   | 16.633 | 2.75 | 22.63 | 1.65 |
| 4.667 | 2.20 | 10.667 | 6.06   | 16.667 | 2.75 | 22.67 | 1.65 |
| 4.700 | 2.20 | 10.700 | 6.06   | 16.700 | 2.75 | 22.70 | 1.65 |
| 4.733 | 2.20 | 10.733 | 6.06   | 16.733 | 2.75 | 22.73 | 1.65 |
| 4.767 | 2.20 | 10.767 | 6.06   | 16.767 | 2.75 | 22.77 | 1.65 |
| 4.800 | 2.20 | 10.800 | 6.06   | 16.800 | 2.75 | 22.80 | 1.65 |
| 4.833 | 2.20 | 10.833 | 6.06   | 16.833 | 1.65 | 22.83 | 1.10 |
| 4.867 | 2.20 | 10.867 | 6.06   | 16.867 | 1.65 | 22.87 | 1.10 |
| 4.900 | 2.20 | 10.900 | 6.06   | 16.900 | 1.65 | 22.90 | 1.10 |
| 4.933 | 2.20 | 10.933 | 6.06   | 16.933 | 1.65 | 22.93 | 1.10 |
| 4.967 | 2.20 | 10.967 | 6.06   | 16.967 | 1.65 | 22.97 | 1.10 |
| 5.000 | 2.20 | 11.000 | 6.06   | 17.000 | 1.65 | 23.00 | 1.10 |
| 5.033 | 2.20 | 11.033 | 8.26   | 17.033 | 1.65 | 23.03 | 1.10 |
| 5.067 | 2.20 | 11.067 | 8.26   | 17.067 | 1.65 | 23.07 | 1.10 |
| 5.100 | 2.20 | 11.100 | 8.26   | 17.100 | 1.65 | 23.10 | 1.10 |
| 5.133 | 2.20 | 11.133 | 8.26   | 17.133 | 1.65 | 23.13 | 1.10 |
| 5.167 | 2.20 | 11.167 | 8.26   | 17.167 | 1.65 | 23.17 | 1.10 |
| 5.200 | 2.20 | 11.200 | 8.26   | 17.200 | 1.65 | 23.20 | 1.10 |
| 5.233 | 2.20 | 11.233 | 12.11  | 17.233 | 2.20 | 23.23 | 1.10 |
| 5.267 | 2.20 | 11.267 | 12.11  | 17.267 | 2.20 | 23.27 | 1.10 |
| 5.300 | 2.20 | 11.300 | 12.11  | 17.300 | 2.20 | 23.30 | 1.10 |
| 5.333 | 2.20 | 11.333 | 12.11  | 17.333 | 2.20 | 23.33 | 1.10 |
| 5.367 | 2.20 | 11.367 | 12.11  | 17.367 | 2.20 | 23.37 | 1.10 |
| 5.400 | 2.20 | 11.400 | 12.13  | 17.400 | 2.20 | 23.40 | 1.10 |
| 5.433 | 2.20 | 11.433 | 29.18  | 17.433 | 1.65 | 23.43 | 1.65 |
| 5.467 | 2.20 | 11.467 | 29.18  | 17.467 | 1.65 | 23.47 | 1.65 |
| 5.500 | 2.20 | 11.500 | 29.18  | 17.500 | 1.65 | 23.50 | 1.65 |
| 5.533 | 2.20 | 11.533 | 29.18  | 17.533 | 1.65 | 23.53 | 1.65 |
| 5.567 | 2.20 | 11.567 | 29.18  | 17.567 | 1.65 | 23.57 | 1.65 |
| 5.600 | 2.20 | 11.600 | 29.22  | 17.600 | 1.65 | 23.60 | 1.65 |
| 5.633 | 2.20 | 11.633 | 60.56  | 17.633 | 2.20 | 23.63 | 1.10 |
| 5.667 | 2.20 | 11.667 | 60.56  | 17.667 | 2.20 | 23.67 | 1.10 |
| 5.700 | 2.20 | 11.700 | 60.56  | 17.700 | 2.20 | 23.70 | 1.10 |
| 5.733 | 2.20 | 11.733 | 60.56  | 17.733 | 2.20 | 23.73 | 1.10 |
| 5.767 | 2.20 | 11.767 | 60.56  | 17.767 | 2.20 | 23.77 | 1.10 |
| 5.800 | 2.20 | 11.800 | 60.64  | 17.800 | 2.20 | 23.80 | 1.10 |
| 5.833 | 2.20 | 11.833 | 123.86 | 17.833 | 1.65 | 23.83 | 1.10 |
| 5.867 | 2.20 | 11.867 | 123.86 | 17.867 | 1.65 | 23.87 | 1.10 |
| 5.900 | 2.20 | 11.900 | 123.86 | 17.900 | 1.65 | 23.90 | 1.10 |
| 5.933 | 2.20 | 11.933 | 123.86 | 17.933 | 1.65 | 23.93 | 1.10 |
| 5.967 | 2.20 | 11.967 | 123.86 | 17.967 | 1.65 | 23.97 | 1.10 |
| 6.000 | 2.20 | 12.000 | 123.72 | 18.000 | 1.65 | 24.00 | 1.10 |

Unit Hyd Qpeak (cms)= 1.809

PEAK FLOW (cms)= 1.374 (i)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 65.418  
TOTAL RAINFALL (mm)= 110.999  
RUNOFF COEFFICIENT = 0.594

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| ADD HYD ( 0040)   | AREA  | QPEAK | TPEAK | R.V.  |
| 1 + 2 = 3         | (ha)  | (cms) | (hrs) | (mm)  |
| ID1= 1 ( 0401):   | 5.97  | 1.082 | 12.07 | 65.42 |
| + ID2= 2 ( 0402): | 7.58  | 1.374 | 12.07 | 65.42 |
| =====             |       |       |       |       |
| ID = 3 ( 0040):   | 13.55 | 2.456 | 12.07 | 65.42 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |               |       |      |                      |      |
|-------------------|---------------|-------|------|----------------------|------|
| CALIB             | Area          | (ha)= | 2.87 | Curve Number (CN)=   | 81.0 |
| NASHYD ( 0403)    | Ia            | (mm)= | 6.80 | # of Linear Res.(N)= | 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= | 0.15  |      |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ---- TRANSFORMED HYETOGRAPH ---- |       |       |       |        |       |       |       |
|----------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                             | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                              | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                            | 1.10  | 6.033 | 2.20  | 12.033 | 22.02 | 18.03 | 1.65  |
| 0.067                            | 1.10  | 6.067 | 2.20  | 12.067 | 22.02 | 18.07 | 1.65  |
| 0.100                            | 1.10  | 6.100 | 2.20  | 12.100 | 22.02 | 18.10 | 1.65  |
| 0.133                            | 1.10  | 6.133 | 2.20  | 12.133 | 22.02 | 18.13 | 1.65  |
| 0.167                            | 1.10  | 6.167 | 2.20  | 12.167 | 22.02 | 18.17 | 1.65  |
| 0.200                            | 1.10  | 6.200 | 2.20  | 12.200 | 22.01 | 18.20 | 1.65  |
| 0.233                            | 1.10  | 6.233 | 2.20  | 12.233 | 13.76 | 18.23 | 1.65  |
| 0.267                            | 1.10  | 6.267 | 2.20  | 12.267 | 13.76 | 18.27 | 1.65  |
| 0.300                            | 1.10  | 6.300 | 2.20  | 12.300 | 13.76 | 18.30 | 1.65  |
| 0.333                            | 1.10  | 6.333 | 2.20  | 12.333 | 13.76 | 18.33 | 1.65  |
| 0.367                            | 1.10  | 6.367 | 2.20  | 12.367 | 13.76 | 18.37 | 1.65  |
| 0.400                            | 1.10  | 6.400 | 2.20  | 12.400 | 13.76 | 18.40 | 1.65  |
| 0.433                            | 1.10  | 6.433 | 2.20  | 12.433 | 9.91  | 18.43 | 2.20  |
| 0.467                            | 1.10  | 6.467 | 2.20  | 12.467 | 9.91  | 18.47 | 2.20  |
| 0.500                            | 1.10  | 6.500 | 2.20  | 12.500 | 9.91  | 18.50 | 2.20  |
| 0.533                            | 1.10  | 6.533 | 2.20  | 12.533 | 9.91  | 18.53 | 2.20  |
| 0.567                            | 1.10  | 6.567 | 2.20  | 12.567 | 9.91  | 18.57 | 2.20  |
| 0.600                            | 1.10  | 6.600 | 2.20  | 12.600 | 9.91  | 18.60 | 2.20  |
| 0.633                            | 1.10  | 6.633 | 2.20  | 12.633 | 9.36  | 18.63 | 1.65  |
| 0.667                            | 1.10  | 6.667 | 2.20  | 12.667 | 9.36  | 18.67 | 1.65  |
| 0.700                            | 1.10  | 6.700 | 2.20  | 12.700 | 9.36  | 18.70 | 1.65  |
| 0.733                            | 1.10  | 6.733 | 2.20  | 12.733 | 9.36  | 18.73 | 1.65  |
| 0.767                            | 1.10  | 6.767 | 2.20  | 12.767 | 9.36  | 18.77 | 1.65  |
| 0.800                            | 1.10  | 6.800 | 2.20  | 12.800 | 9.35  | 18.80 | 1.65  |
| 0.833                            | 1.10  | 6.833 | 2.20  | 12.833 | 6.61  | 18.83 | 1.65  |
| 0.867                            | 1.10  | 6.867 | 2.20  | 12.867 | 6.61  | 18.87 | 1.65  |
| 0.900                            | 1.10  | 6.900 | 2.20  | 12.900 | 6.61  | 18.90 | 1.65  |
| 0.933                            | 1.10  | 6.933 | 2.20  | 12.933 | 6.61  | 18.93 | 1.65  |
| 0.967                            | 1.10  | 6.967 | 2.20  | 12.967 | 6.61  | 18.97 | 1.65  |
| 1.000                            | 1.10  | 7.000 | 2.20  | 13.000 | 6.60  | 19.00 | 1.65  |
| 1.033                            | 1.10  | 7.033 | 2.20  | 13.033 | 5.50  | 19.03 | 2.20  |
| 1.067                            | 1.10  | 7.067 | 2.20  | 13.067 | 5.50  | 19.07 | 2.20  |
| 1.100                            | 1.10  | 7.100 | 2.20  | 13.100 | 5.50  | 19.10 | 2.20  |
| 1.133                            | 1.10  | 7.133 | 2.20  | 13.133 | 5.50  | 19.13 | 2.20  |
| 1.167                            | 1.10  | 7.167 | 2.20  | 13.167 | 5.50  | 19.17 | 2.20  |
| 1.200                            | 1.10  | 7.200 | 2.20  | 13.200 | 5.51  | 19.20 | 2.20  |
| 1.233                            | 1.10  | 7.233 | 2.20  | 13.233 | 5.50  | 19.23 | 1.65  |
| 1.267                            | 1.10  | 7.267 | 2.20  | 13.267 | 5.50  | 19.27 | 1.65  |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 1.300 | 1.10 | 7.300  | 2.20  | 13.300 | 5.50 | 19.30 | 1.65 |
| 1.333 | 1.10 | 7.333  | 2.20  | 13.333 | 5.50 | 19.33 | 1.65 |
| 1.367 | 1.10 | 7.367  | 2.20  | 13.367 | 5.50 | 19.37 | 1.65 |
| 1.400 | 1.10 | 7.400  | 2.20  | 13.400 | 5.51 | 19.40 | 1.65 |
| 1.433 | 1.10 | 7.433  | 2.20  | 13.433 | 5.50 | 19.43 | 2.20 |
| 1.467 | 1.10 | 7.467  | 2.20  | 13.467 | 5.50 | 19.47 | 2.20 |
| 1.500 | 1.10 | 7.500  | 2.20  | 13.500 | 5.50 | 19.50 | 2.20 |
| 1.533 | 1.10 | 7.533  | 2.20  | 13.533 | 5.50 | 19.53 | 2.20 |
| 1.567 | 1.10 | 7.567  | 2.20  | 13.567 | 5.50 | 19.57 | 2.20 |
| 1.600 | 1.10 | 7.600  | 2.20  | 13.600 | 5.51 | 19.60 | 2.20 |
| 1.633 | 1.10 | 7.633  | 2.20  | 13.633 | 5.50 | 19.63 | 1.65 |
| 1.667 | 1.10 | 7.667  | 2.20  | 13.667 | 5.50 | 19.67 | 1.65 |
| 1.700 | 1.10 | 7.700  | 2.20  | 13.700 | 5.50 | 19.70 | 1.65 |
| 1.733 | 1.10 | 7.733  | 2.20  | 13.733 | 5.50 | 19.73 | 1.65 |
| 1.767 | 1.10 | 7.767  | 2.20  | 13.767 | 5.50 | 19.77 | 1.65 |
| 1.800 | 1.10 | 7.800  | 2.20  | 13.800 | 5.51 | 19.80 | 1.65 |
| 1.833 | 1.10 | 7.833  | 2.20  | 13.833 | 5.51 | 19.83 | 2.20 |
| 1.867 | 1.10 | 7.867  | 2.20  | 13.867 | 5.51 | 19.87 | 2.20 |
| 1.900 | 1.10 | 7.900  | 2.20  | 13.900 | 5.51 | 19.90 | 2.20 |
| 1.933 | 1.10 | 7.933  | 2.20  | 13.933 | 5.51 | 19.93 | 2.20 |
| 1.967 | 1.10 | 7.967  | 2.20  | 13.967 | 5.51 | 19.97 | 2.20 |
| 2.000 | 1.10 | 8.000  | 2.20  | 14.000 | 5.50 | 20.00 | 2.20 |
| 2.033 | 1.10 | 8.033  | 3.30  | 14.033 | 3.30 | 20.03 | 1.65 |
| 2.067 | 1.10 | 8.067  | 3.30  | 14.067 | 3.30 | 20.07 | 1.65 |
| 2.100 | 1.10 | 8.100  | 3.30  | 14.100 | 3.30 | 20.10 | 1.65 |
| 2.133 | 1.10 | 8.133  | 3.30  | 14.133 | 3.30 | 20.13 | 1.65 |
| 2.167 | 1.10 | 8.167  | 3.30  | 14.167 | 3.30 | 20.17 | 1.65 |
| 2.200 | 1.10 | 8.200  | 3.30  | 14.200 | 3.30 | 20.20 | 1.65 |
| 2.233 | 1.10 | 8.233  | 3.30  | 14.233 | 3.30 | 20.23 | 1.65 |
| 2.267 | 1.10 | 8.267  | 3.30  | 14.267 | 3.30 | 20.27 | 1.65 |
| 2.300 | 1.10 | 8.300  | 3.30  | 14.300 | 3.30 | 20.30 | 1.65 |
| 2.333 | 1.10 | 8.333  | 3.30  | 14.333 | 3.30 | 20.33 | 1.65 |
| 2.367 | 1.10 | 8.367  | 3.30  | 14.367 | 3.30 | 20.37 | 1.65 |
| 2.400 | 1.10 | 8.400  | 3.30  | 14.400 | 3.30 | 20.40 | 1.65 |
| 2.433 | 1.10 | 8.433  | 3.30  | 14.433 | 3.30 | 20.43 | 1.10 |
| 2.467 | 1.10 | 8.467  | 3.30  | 14.467 | 3.30 | 20.47 | 1.10 |
| 2.500 | 1.10 | 8.500  | 3.30  | 14.500 | 3.30 | 20.50 | 1.10 |
| 2.533 | 1.10 | 8.533  | 3.30  | 14.533 | 3.30 | 20.53 | 1.10 |
| 2.567 | 1.10 | 8.567  | 3.30  | 14.567 | 3.30 | 20.57 | 1.10 |
| 2.600 | 1.10 | 8.600  | 3.30  | 14.600 | 3.30 | 20.60 | 1.10 |
| 2.633 | 1.10 | 8.633  | 3.30  | 14.633 | 3.30 | 20.63 | 1.65 |
| 2.667 | 1.10 | 8.667  | 3.30  | 14.667 | 3.30 | 20.67 | 1.65 |
| 2.700 | 1.10 | 8.700  | 3.30  | 14.700 | 3.30 | 20.70 | 1.65 |
| 2.733 | 1.10 | 8.733  | 3.30  | 14.733 | 3.30 | 20.73 | 1.65 |
| 2.767 | 1.10 | 8.767  | 3.30  | 14.767 | 3.30 | 20.77 | 1.65 |
| 2.800 | 1.10 | 8.800  | 3.30  | 14.800 | 3.30 | 20.80 | 1.65 |
| 2.833 | 1.10 | 8.833  | 3.30  | 14.833 | 3.30 | 20.83 | 1.65 |
| 2.867 | 1.10 | 8.867  | 3.30  | 14.867 | 3.30 | 20.87 | 1.65 |
| 2.900 | 1.10 | 8.900  | 3.30  | 14.900 | 3.30 | 20.90 | 1.65 |
| 2.933 | 1.10 | 8.933  | 3.30  | 14.933 | 3.30 | 20.93 | 1.65 |
| 2.967 | 1.10 | 8.967  | 3.30  | 14.967 | 3.30 | 20.97 | 1.65 |
| 3.000 | 1.10 | 9.000  | 3.30  | 15.000 | 3.30 | 21.00 | 1.65 |
| 3.033 | 1.10 | 9.033  | 3.30  | 15.033 | 2.75 | 21.03 | 1.10 |
| 3.067 | 1.10 | 9.067  | 3.30  | 15.067 | 2.75 | 21.07 | 1.10 |
| 3.100 | 1.10 | 9.100  | 3.30  | 15.100 | 2.75 | 21.10 | 1.10 |
| 3.133 | 1.10 | 9.133  | 3.30  | 15.133 | 2.75 | 21.13 | 1.10 |
| 3.167 | 1.10 | 9.167  | 3.30  | 15.167 | 2.75 | 21.17 | 1.10 |
| 3.200 | 1.10 | 9.200  | 3.30  | 15.200 | 2.75 | 21.20 | 1.10 |
| 3.233 | 1.10 | 9.233  | 3.30  | 15.233 | 2.75 | 21.23 | 1.65 |
| 3.267 | 1.10 | 9.267  | 3.30  | 15.267 | 2.75 | 21.27 | 1.65 |
| 3.300 | 1.10 | 9.300  | 3.30  | 15.300 | 2.75 | 21.30 | 1.65 |
| 3.333 | 1.10 | 9.333  | 3.30  | 15.333 | 2.75 | 21.33 | 1.65 |
| 3.367 | 1.10 | 9.367  | 3.30  | 15.367 | 2.75 | 21.37 | 1.65 |
| 3.400 | 1.10 | 9.400  | 3.30  | 15.400 | 2.75 | 21.40 | 1.65 |
| 3.433 | 1.10 | 9.433  | 3.30  | 15.433 | 2.75 | 21.43 | 1.10 |
| 3.467 | 1.10 | 9.467  | 3.30  | 15.467 | 2.75 | 21.47 | 1.10 |
| 3.500 | 1.10 | 9.500  | 3.30  | 15.500 | 2.75 | 21.50 | 1.10 |
| 3.533 | 1.10 | 9.533  | 3.30  | 15.533 | 2.75 | 21.53 | 1.10 |
| 3.567 | 1.10 | 9.567  | 3.30  | 15.567 | 2.75 | 21.57 | 1.10 |
| 3.600 | 1.10 | 9.600  | 3.30  | 15.600 | 2.75 | 21.60 | 1.10 |
| 3.633 | 1.10 | 9.633  | 3.30  | 15.633 | 2.75 | 21.63 | 1.65 |
| 3.667 | 1.10 | 9.667  | 3.30  | 15.667 | 2.75 | 21.67 | 1.65 |
| 3.700 | 1.10 | 9.700  | 3.30  | 15.700 | 2.75 | 21.70 | 1.65 |
| 3.733 | 1.10 | 9.733  | 3.30  | 15.733 | 2.75 | 21.73 | 1.65 |
| 3.767 | 1.10 | 9.767  | 3.30  | 15.767 | 2.75 | 21.77 | 1.65 |
| 3.800 | 1.10 | 9.800  | 3.30  | 15.800 | 2.75 | 21.80 | 1.65 |
| 3.833 | 1.10 | 9.833  | 3.30  | 15.833 | 2.75 | 21.83 | 1.10 |
| 3.867 | 1.10 | 9.867  | 3.30  | 15.867 | 2.75 | 21.87 | 1.10 |
| 3.900 | 1.10 | 9.900  | 3.30  | 15.900 | 2.75 | 21.90 | 1.10 |
| 3.933 | 1.10 | 9.933  | 3.30  | 15.933 | 2.75 | 21.93 | 1.10 |
| 3.967 | 1.10 | 9.967  | 3.30  | 15.967 | 2.75 | 21.97 | 1.10 |
| 4.000 | 1.10 | 10.000 | 3.30  | 16.000 | 2.75 | 22.00 | 1.10 |
| 4.033 | 2.20 | 10.033 | 6.06  | 16.033 | 2.75 | 22.03 | 1.10 |
| 4.067 | 2.20 | 10.067 | 6.06  | 16.067 | 2.75 | 22.07 | 1.10 |
| 4.100 | 2.20 | 10.100 | 6.06  | 16.100 | 2.75 | 22.10 | 1.10 |
| 4.133 | 2.20 | 10.133 | 6.06  | 16.133 | 2.75 | 22.13 | 1.10 |
| 4.167 | 2.20 | 10.167 | 6.06  | 16.167 | 2.75 | 22.17 | 1.10 |
| 4.200 | 2.20 | 10.200 | 6.06  | 16.200 | 2.75 | 22.20 | 1.10 |
| 4.233 | 2.20 | 10.233 | 6.06  | 16.233 | 2.75 | 22.23 | 1.65 |
| 4.267 | 2.20 | 10.267 | 6.06  | 16.267 | 2.75 | 22.27 | 1.65 |
| 4.300 | 2.20 | 10.300 | 6.06  | 16.300 | 2.75 | 22.30 | 1.65 |
| 4.333 | 2.20 | 10.333 | 6.06  | 16.333 | 2.75 | 22.33 | 1.65 |
| 4.367 | 2.20 | 10.367 | 6.06  | 16.367 | 2.75 | 22.37 | 1.65 |
| 4.400 | 2.20 | 10.400 | 6.06  | 16.400 | 2.75 | 22.40 | 1.65 |
| 4.433 | 2.20 | 10.433 | 6.06  | 16.433 | 2.75 | 22.43 | 1.10 |
| 4.467 | 2.20 | 10.467 | 6.06  | 16.467 | 2.75 | 22.47 | 1.10 |
| 4.500 | 2.20 | 10.500 | 6.06  | 16.500 | 2.75 | 22.50 | 1.10 |
| 4.533 | 2.20 | 10.533 | 6.06  | 16.533 | 2.75 | 22.53 | 1.10 |
| 4.567 | 2.20 | 10.567 | 6.06  | 16.567 | 2.75 | 22.57 | 1.10 |
| 4.600 | 2.20 | 10.600 | 6.06  | 16.600 | 2.75 | 22.60 | 1.10 |
| 4.633 | 2.20 | 10.633 | 6.06  | 16.633 | 2.75 | 22.63 | 1.65 |
| 4.667 | 2.20 | 10.667 | 6.06  | 16.667 | 2.75 | 22.67 | 1.65 |
| 4.700 | 2.20 | 10.700 | 6.06  | 16.700 | 2.75 | 22.70 | 1.65 |
| 4.733 | 2.20 | 10.733 | 6.06  | 16.733 | 2.75 | 22.73 | 1.65 |
| 4.767 | 2.20 | 10.767 | 6.06  | 16.767 | 2.75 | 22.77 | 1.65 |
| 4.800 | 2.20 | 10.800 | 6.06  | 16.800 | 2.75 | 22.80 | 1.65 |
| 4.833 | 2.20 | 10.833 | 6.06  | 16.833 | 1.65 | 22.83 | 1.10 |
| 4.867 | 2.20 | 10.867 | 6.06  | 16.867 | 1.65 | 22.87 | 1.10 |
| 4.900 | 2.20 | 10.900 | 6.06  | 16.900 | 1.65 | 22.90 | 1.10 |
| 4.933 | 2.20 | 10.933 | 6.06  | 16.933 | 1.65 | 22.93 | 1.10 |
| 4.967 | 2.20 | 10.967 | 6.06  | 16.967 | 1.65 | 22.97 | 1.10 |
| 5.000 | 2.20 | 11.000 | 6.06  | 17.000 | 1.65 | 23.00 | 1.10 |
| 5.033 | 2.20 | 11.033 | 8.26  | 17.033 | 1.65 | 23.03 | 1.10 |
| 5.067 | 2.20 | 11.067 | 8.26  | 17.067 | 1.65 | 23.07 | 1.10 |
| 5.100 | 2.20 | 11.100 | 8.26  | 17.100 | 1.65 | 23.10 | 1.10 |
| 5.133 | 2.20 | 11.133 | 8.26  | 17.133 | 1.65 | 23.13 | 1.10 |
| 5.167 | 2.20 | 11.167 | 8.26  | 17.167 | 1.65 | 23.17 | 1.10 |
| 5.200 | 2.20 | 11.200 | 8.26  | 17.200 | 1.65 | 23.20 | 1.10 |
| 5.233 | 2.20 | 11.233 | 12.11 | 17.233 | 2.20 | 23.23 | 1.10 |
| 5.267 | 2.20 | 11.267 | 12.11 | 17.267 | 2.20 | 23.27 | 1.10 |
| 5.300 | 2.20 | 11.300 | 12.11 | 17.300 | 2.20 | 23.30 | 1.10 |
| 5.333 | 2.20 | 11.333 | 12.11 | 17.333 | 2.20 | 23.33 | 1.10 |
| 5.367 | 2.20 | 11.367 | 12.11 | 17.367 | 2.20 | 23.37 | 1.10 |
| 5.400 | 2.20 | 11.400 | 12.13 | 17.400 | 2.20 | 23.40 | 1.10 |
| 5.433 | 2.20 | 11.433 | 29.18 | 17.433 | 1.65 | 23.43 | 1.65 |
| 5.467 | 2.20 | 11.467 | 29.18 | 17.467 | 1.65 | 23.47 | 1.65 |
| 5.500 | 2.20 | 11.500 | 29.18 | 17.500 | 1.65 | 23.50 | 1.65 |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 5.533 | 2.20 | 11.533 | 29.18  | 17.533 | 1.65 | 23.53 | 1.65 |
| 5.567 | 2.20 | 11.567 | 29.18  | 17.567 | 1.65 | 23.57 | 1.65 |
| 5.600 | 2.20 | 11.600 | 29.22  | 17.600 | 1.65 | 23.60 | 1.65 |
| 5.633 | 2.20 | 11.633 | 60.56  | 17.633 | 2.20 | 23.63 | 1.10 |
| 5.667 | 2.20 | 11.667 | 60.56  | 17.667 | 2.20 | 23.67 | 1.10 |
| 5.700 | 2.20 | 11.700 | 60.56  | 17.700 | 2.20 | 23.70 | 1.10 |
| 5.733 | 2.20 | 11.733 | 60.56  | 17.733 | 2.20 | 23.73 | 1.10 |
| 5.767 | 2.20 | 11.767 | 60.56  | 17.767 | 2.20 | 23.77 | 1.10 |
| 5.800 | 2.20 | 11.800 | 60.64  | 17.800 | 2.20 | 23.80 | 1.10 |
| 5.833 | 2.20 | 11.833 | 123.86 | 17.833 | 1.65 | 23.83 | 1.10 |
| 5.867 | 2.20 | 11.867 | 123.86 | 17.867 | 1.65 | 23.87 | 1.10 |
| 5.900 | 2.20 | 11.900 | 123.86 | 17.900 | 1.65 | 23.90 | 1.10 |
| 5.933 | 2.20 | 11.933 | 123.86 | 17.933 | 1.65 | 23.93 | 1.10 |
| 5.967 | 2.20 | 11.967 | 123.86 | 17.967 | 1.65 | 23.97 | 1.10 |
| 6.000 | 2.20 | 12.000 | 123.72 | 18.000 | 1.65 | 24.00 | 1.10 |

Unit Hyd Qpeak (cms)= 0.731

PEAK FLOW (cms)= 0.535 (i)  
TIME TO PEAK (hrs)= 12.033  
RUNOFF VOLUME (mm)= 65.502  
TOTAL RAINFALL (mm)= 110.099  
RUNOFF COEFFICIENT = 0.595

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB  
NASHYD ( 0404)  
ID= 1 DT= 2.0 min  
Area (ha)= 0.85 Curve Number (CN)= 86.0  
Ia (mm)= 4.80 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |       |       |       |        |       |       |       |
|--------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                           | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                            | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                          | 1.10  | 6.033 | 2.20  | 12.033 | 22.02 | 18.03 | 1.65  |
| 0.067                          | 1.10  | 6.067 | 2.20  | 12.067 | 22.02 | 18.07 | 1.65  |
| 0.100                          | 1.10  | 6.100 | 2.20  | 12.100 | 22.02 | 18.10 | 1.65  |
| 0.133                          | 1.10  | 6.133 | 2.20  | 12.133 | 22.02 | 18.13 | 1.65  |
| 0.167                          | 1.10  | 6.167 | 2.20  | 12.167 | 22.02 | 18.17 | 1.65  |
| 0.200                          | 1.10  | 6.200 | 2.20  | 12.200 | 22.01 | 18.20 | 1.65  |
| 0.233                          | 1.10  | 6.233 | 2.20  | 12.233 | 13.76 | 18.23 | 1.65  |
| 0.267                          | 1.10  | 6.267 | 2.20  | 12.267 | 13.76 | 18.27 | 1.65  |
| 0.300                          | 1.10  | 6.300 | 2.20  | 12.300 | 13.76 | 18.30 | 1.65  |
| 0.333                          | 1.10  | 6.333 | 2.20  | 12.333 | 13.76 | 18.33 | 1.65  |
| 0.367                          | 1.10  | 6.367 | 2.20  | 12.367 | 13.76 | 18.37 | 1.65  |
| 0.400                          | 1.10  | 6.400 | 2.20  | 12.400 | 13.76 | 18.40 | 1.65  |
| 0.433                          | 1.10  | 6.433 | 2.20  | 12.433 | 9.91  | 18.43 | 2.20  |
| 0.467                          | 1.10  | 6.467 | 2.20  | 12.467 | 9.91  | 18.47 | 2.20  |
| 0.500                          | 1.10  | 6.500 | 2.20  | 12.500 | 9.91  | 18.50 | 2.20  |
| 0.533                          | 1.10  | 6.533 | 2.20  | 12.533 | 9.91  | 18.53 | 2.20  |
| 0.567                          | 1.10  | 6.567 | 2.20  | 12.567 | 9.91  | 18.57 | 2.20  |
| 0.600                          | 1.10  | 6.600 | 2.20  | 12.600 | 9.91  | 18.60 | 2.20  |
| 0.633                          | 1.10  | 6.633 | 2.20  | 12.633 | 9.36  | 18.63 | 1.65  |
| 0.667                          | 1.10  | 6.667 | 2.20  | 12.667 | 9.36  | 18.67 | 1.65  |
| 0.700                          | 1.10  | 6.700 | 2.20  | 12.700 | 9.36  | 18.70 | 1.65  |
| 0.733                          | 1.10  | 6.733 | 2.20  | 12.733 | 9.36  | 18.73 | 1.65  |
| 0.767                          | 1.10  | 6.767 | 2.20  | 12.767 | 9.36  | 18.77 | 1.65  |
| 0.800                          | 1.10  | 6.800 | 2.20  | 12.800 | 9.35  | 18.80 | 1.65  |
| 0.833                          | 1.10  | 6.833 | 2.20  | 12.833 | 6.61  | 18.83 | 1.65  |
| 0.867                          | 1.10  | 6.867 | 2.20  | 12.867 | 6.61  | 18.87 | 1.65  |
| 0.900                          | 1.10  | 6.900 | 2.20  | 12.900 | 6.61  | 18.90 | 1.65  |
| 0.933                          | 1.10  | 6.933 | 2.20  | 12.933 | 6.61  | 18.93 | 1.65  |
| 0.967                          | 1.10  | 6.967 | 2.20  | 12.967 | 6.61  | 18.97 | 1.65  |
| 1.000                          | 1.10  | 7.000 | 2.20  | 13.000 | 6.60  | 19.00 | 1.65  |
| 1.033                          | 1.10  | 7.033 | 2.20  | 13.033 | 5.50  | 19.03 | 2.20  |
| 1.067                          | 1.10  | 7.067 | 2.20  | 13.067 | 5.50  | 19.07 | 2.20  |
| 1.100                          | 1.10  | 7.100 | 2.20  | 13.100 | 5.50  | 19.10 | 2.20  |
| 1.133                          | 1.10  | 7.133 | 2.20  | 13.133 | 5.50  | 19.13 | 2.20  |
| 1.167                          | 1.10  | 7.167 | 2.20  | 13.167 | 5.50  | 19.17 | 2.20  |
| 1.200                          | 1.10  | 7.200 | 2.20  | 13.200 | 5.51  | 19.20 | 2.20  |
| 1.233                          | 1.10  | 7.233 | 2.20  | 13.233 | 5.50  | 19.23 | 1.65  |
| 1.267                          | 1.10  | 7.267 | 2.20  | 13.267 | 5.50  | 19.27 | 1.65  |
| 1.300                          | 1.10  | 7.300 | 2.20  | 13.300 | 5.50  | 19.30 | 1.65  |
| 1.333                          | 1.10  | 7.333 | 2.20  | 13.333 | 5.50  | 19.33 | 1.65  |
| 1.367                          | 1.10  | 7.367 | 2.20  | 13.367 | 5.50  | 19.37 | 1.65  |
| 1.400                          | 1.10  | 7.400 | 2.20  | 13.400 | 5.51  | 19.40 | 1.65  |
| 1.433                          | 1.10  | 7.433 | 2.20  | 13.433 | 5.50  | 19.43 | 2.20  |
| 1.467                          | 1.10  | 7.467 | 2.20  | 13.467 | 5.50  | 19.47 | 2.20  |
| 1.500                          | 1.10  | 7.500 | 2.20  | 13.500 | 5.50  | 19.50 | 2.20  |
| 1.533                          | 1.10  | 7.533 | 2.20  | 13.533 | 5.50  | 19.53 | 2.20  |
| 1.567                          | 1.10  | 7.567 | 2.20  | 13.567 | 5.50  | 19.57 | 2.20  |
| 1.600                          | 1.10  | 7.600 | 2.20  | 13.600 | 5.51  | 19.60 | 2.20  |
| 1.633                          | 1.10  | 7.633 | 2.20  | 13.633 | 5.50  | 19.63 | 1.65  |
| 1.667                          | 1.10  | 7.667 | 2.20  | 13.667 | 5.50  | 19.67 | 1.65  |
| 1.700                          | 1.10  | 7.700 | 2.20  | 13.700 | 5.50  | 19.70 | 1.65  |
| 1.733                          | 1.10  | 7.733 | 2.20  | 13.733 | 5.50  | 19.73 | 1.65  |
| 1.767                          | 1.10  | 7.767 | 2.20  | 13.767 | 5.50  | 19.77 | 1.65  |
| 1.800                          | 1.10  | 7.800 | 2.20  | 13.800 | 5.51  | 19.80 | 1.65  |
| 1.833                          | 1.10  | 7.833 | 2.20  | 13.833 | 5.51  | 19.83 | 2.20  |
| 1.867                          | 1.10  | 7.867 | 2.20  | 13.867 | 5.51  | 19.87 | 2.20  |
| 1.900                          | 1.10  | 7.900 | 2.20  | 13.900 | 5.51  | 19.90 | 2.20  |
| 1.933                          | 1.10  | 7.933 | 2.20  | 13.933 | 5.51  | 19.93 | 2.20  |
| 1.967                          | 1.10  | 7.967 | 2.20  | 13.967 | 5.51  | 19.97 | 2.20  |
| 2.000                          | 1.10  | 8.000 | 2.20  | 14.000 | 5.50  | 20.00 | 2.20  |
| 2.033                          | 1.10  | 8.033 | 3.30  | 14.033 | 3.30  | 20.03 | 1.65  |
| 2.067                          | 1.10  | 8.067 | 3.30  | 14.067 | 3.30  | 20.07 | 1.65  |
| 2.100                          | 1.10  | 8.100 | 3.30  | 14.100 | 3.30  | 20.10 | 1.65  |
| 2.133                          | 1.10  | 8.133 | 3.30  | 14.133 | 3.30  | 20.13 | 1.65  |
| 2.167                          | 1.10  | 8.167 | 3.30  | 14.167 | 3.30  | 20.17 | 1.65  |
| 2.200                          | 1.10  | 8.200 | 3.30  | 14.200 | 3.30  | 20.20 | 1.65  |
| 2.233                          | 1.10  | 8.233 | 3.30  | 14.233 | 3.30  | 20.23 | 1.65  |
| 2.267                          | 1.10  | 8.267 | 3.30  | 14.267 | 3.30  | 20.27 | 1.65  |
| 2.300                          | 1.10  | 8.300 | 3.30  | 14.300 | 3.30  | 20.30 | 1.65  |
| 2.333                          | 1.10  | 8.333 | 3.30  | 14.333 | 3.30  | 20.33 | 1.65  |
| 2.367                          | 1.10  | 8.367 | 3.30  | 14.367 | 3.30  | 20.37 | 1.65  |
| 2.400                          | 1.10  | 8.400 | 3.30  | 14.400 | 3.30  | 20.40 | 1.65  |
| 2.433                          | 1.10  | 8.433 | 3.30  | 14.433 | 3.30  | 20.43 | 1.10  |
| 2.467                          | 1.10  | 8.467 | 3.30  | 14.467 | 3.30  | 20.47 | 1.10  |
| 2.500                          | 1.10  | 8.500 | 3.30  | 14.500 | 3.30  | 20.50 | 1.10  |
| 2.533                          | 1.10  | 8.533 | 3.30  | 14.533 | 3.30  | 20.53 | 1.10  |
| 2.567                          | 1.10  | 8.567 | 3.30  | 14.567 | 3.30  | 20.57 | 1.10  |
| 2.600                          | 1.10  | 8.600 | 3.30  | 14.600 | 3.30  | 20.60 | 1.10  |
| 2.633                          | 1.10  | 8.633 | 3.30  | 14.633 | 3.30  | 20.63 | 1.65  |
| 2.667                          | 1.10  | 8.667 | 3.30  | 14.667 | 3.30  | 20.67 | 1.65  |
| 2.700                          | 1.10  | 8.700 | 3.30  | 14.700 | 3.30  | 20.70 | 1.65  |
| 2.733                          | 1.10  | 8.733 | 3.30  | 14.733 | 3.30  | 20.73 | 1.65  |
| 2.767                          | 1.10  | 8.767 | 3.30  | 14.767 | 3.30  | 20.77 | 1.65  |
| 2.800                          | 1.10  | 8.800 | 3.30  | 14.800 | 3.30  | 20.80 | 1.65  |
| 2.833                          | 1.10  | 8.833 | 3.30  | 14.833 | 3.30  | 20.83 | 1.65  |
| 2.867                          | 1.10  | 8.867 | 3.30  | 14.867 | 3.30  | 20.87 | 1.65  |
| 2.900                          | 1.10  | 8.900 | 3.30  | 14.900 | 3.30  | 20.90 | 1.65  |
| 2.933                          | 1.10  | 8.933 | 3.30  | 14.933 | 3.30  | 20.93 | 1.65  |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 2.967 | 1.10 | 8.967  | 3.30   | 14.967 | 3.30 | 20.97 | 1.65 |
| 3.000 | 1.10 | 9.000  | 3.30   | 15.000 | 3.30 | 21.00 | 1.65 |
| 3.033 | 1.10 | 9.033  | 3.30   | 15.033 | 2.75 | 21.03 | 1.10 |
| 3.067 | 1.10 | 9.067  | 3.30   | 15.067 | 2.75 | 21.07 | 1.10 |
| 3.100 | 1.10 | 9.100  | 3.30   | 15.100 | 2.75 | 21.10 | 1.10 |
| 3.133 | 1.10 | 9.133  | 3.30   | 15.133 | 2.75 | 21.13 | 1.10 |
| 3.167 | 1.10 | 9.167  | 3.30   | 15.167 | 2.75 | 21.17 | 1.10 |
| 3.200 | 1.10 | 9.200  | 3.30   | 15.200 | 2.75 | 21.20 | 1.10 |
| 3.233 | 1.10 | 9.233  | 3.30   | 15.233 | 2.75 | 21.23 | 1.65 |
| 3.267 | 1.10 | 9.267  | 3.30   | 15.267 | 2.75 | 21.27 | 1.65 |
| 3.300 | 1.10 | 9.300  | 3.30   | 15.300 | 2.75 | 21.30 | 1.65 |
| 3.333 | 1.10 | 9.333  | 3.30   | 15.333 | 2.75 | 21.33 | 1.65 |
| 3.367 | 1.10 | 9.367  | 3.30   | 15.367 | 2.75 | 21.37 | 1.65 |
| 3.400 | 1.10 | 9.400  | 3.30   | 15.400 | 2.75 | 21.40 | 1.65 |
| 3.433 | 1.10 | 9.433  | 3.30   | 15.433 | 2.75 | 21.43 | 1.10 |
| 3.467 | 1.10 | 9.467  | 3.30   | 15.467 | 2.75 | 21.47 | 1.10 |
| 3.500 | 1.10 | 9.500  | 3.30   | 15.500 | 2.75 | 21.50 | 1.10 |
| 3.533 | 1.10 | 9.533  | 3.30   | 15.533 | 2.75 | 21.53 | 1.10 |
| 3.567 | 1.10 | 9.567  | 3.30   | 15.567 | 2.75 | 21.57 | 1.10 |
| 3.600 | 1.10 | 9.600  | 3.30   | 15.600 | 2.75 | 21.60 | 1.10 |
| 3.633 | 1.10 | 9.633  | 3.30   | 15.633 | 2.75 | 21.63 | 1.65 |
| 3.667 | 1.10 | 9.667  | 3.30   | 15.667 | 2.75 | 21.67 | 1.65 |
| 3.700 | 1.10 | 9.700  | 3.30   | 15.700 | 2.75 | 21.70 | 1.65 |
| 3.733 | 1.10 | 9.733  | 3.30   | 15.733 | 2.75 | 21.73 | 1.65 |
| 3.767 | 1.10 | 9.767  | 3.30   | 15.767 | 2.75 | 21.77 | 1.65 |
| 3.800 | 1.10 | 9.800  | 3.30   | 15.800 | 2.75 | 21.80 | 1.65 |
| 3.833 | 1.10 | 9.833  | 3.30   | 15.833 | 2.75 | 21.83 | 1.10 |
| 3.867 | 1.10 | 9.867  | 3.30   | 15.867 | 2.75 | 21.87 | 1.10 |
| 3.900 | 1.10 | 9.900  | 3.30   | 15.900 | 2.75 | 21.90 | 1.10 |
| 3.933 | 1.10 | 9.933  | 3.30   | 15.933 | 2.75 | 21.93 | 1.10 |
| 3.967 | 1.10 | 9.967  | 3.30   | 15.967 | 2.75 | 21.97 | 1.10 |
| 4.000 | 1.10 | 10.000 | 3.30   | 16.000 | 2.75 | 22.00 | 1.10 |
| 4.033 | 2.20 | 10.033 | 6.06   | 16.033 | 2.75 | 22.03 | 1.10 |
| 4.067 | 2.20 | 10.067 | 6.06   | 16.067 | 2.75 | 22.07 | 1.10 |
| 4.100 | 2.20 | 10.100 | 6.06   | 16.100 | 2.75 | 22.10 | 1.10 |
| 4.133 | 2.20 | 10.133 | 6.06   | 16.133 | 2.75 | 22.13 | 1.10 |
| 4.167 | 2.20 | 10.167 | 6.06   | 16.167 | 2.75 | 22.17 | 1.10 |
| 4.200 | 2.20 | 10.200 | 6.06   | 16.200 | 2.75 | 22.20 | 1.10 |
| 4.233 | 2.20 | 10.233 | 6.06   | 16.233 | 2.75 | 22.23 | 1.65 |
| 4.267 | 2.20 | 10.267 | 6.06   | 16.267 | 2.75 | 22.27 | 1.65 |
| 4.300 | 2.20 | 10.300 | 6.06   | 16.300 | 2.75 | 22.30 | 1.65 |
| 4.333 | 2.20 | 10.333 | 6.06   | 16.333 | 2.75 | 22.33 | 1.65 |
| 4.367 | 2.20 | 10.367 | 6.06   | 16.367 | 2.75 | 22.37 | 1.65 |
| 4.400 | 2.20 | 10.400 | 6.06   | 16.400 | 2.75 | 22.40 | 1.65 |
| 4.433 | 2.20 | 10.433 | 6.06   | 16.433 | 2.75 | 22.43 | 1.10 |
| 4.467 | 2.20 | 10.467 | 6.06   | 16.467 | 2.75 | 22.47 | 1.10 |
| 4.500 | 2.20 | 10.500 | 6.06   | 16.500 | 2.75 | 22.50 | 1.10 |
| 4.533 | 2.20 | 10.533 | 6.06   | 16.533 | 2.75 | 22.53 | 1.10 |
| 4.567 | 2.20 | 10.567 | 6.06   | 16.567 | 2.75 | 22.57 | 1.10 |
| 4.600 | 2.20 | 10.600 | 6.06   | 16.600 | 2.75 | 22.60 | 1.10 |
| 4.633 | 2.20 | 10.633 | 6.06   | 16.633 | 2.75 | 22.63 | 1.65 |
| 4.667 | 2.20 | 10.667 | 6.06   | 16.667 | 2.75 | 22.67 | 1.65 |
| 4.700 | 2.20 | 10.700 | 6.06   | 16.700 | 2.75 | 22.70 | 1.65 |
| 4.733 | 2.20 | 10.733 | 6.06   | 16.733 | 2.75 | 22.73 | 1.65 |
| 4.767 | 2.20 | 10.767 | 6.06   | 16.767 | 2.75 | 22.77 | 1.65 |
| 4.800 | 2.20 | 10.800 | 6.06   | 16.800 | 2.75 | 22.80 | 1.65 |
| 4.833 | 2.20 | 10.833 | 6.06   | 16.833 | 1.65 | 22.83 | 1.10 |
| 4.867 | 2.20 | 10.867 | 6.06   | 16.867 | 1.65 | 22.87 | 1.10 |
| 4.900 | 2.20 | 10.900 | 6.06   | 16.900 | 1.65 | 22.90 | 1.10 |
| 4.933 | 2.20 | 10.933 | 6.06   | 16.933 | 1.65 | 22.93 | 1.10 |
| 4.967 | 2.20 | 10.967 | 6.06   | 16.967 | 1.65 | 22.97 | 1.10 |
| 5.000 | 2.20 | 11.000 | 6.06   | 17.000 | 1.65 | 23.00 | 1.10 |
| 5.033 | 2.20 | 11.033 | 8.26   | 17.033 | 1.65 | 23.03 | 1.10 |
| 5.067 | 2.20 | 11.067 | 8.26   | 17.067 | 1.65 | 23.07 | 1.10 |
| 5.100 | 2.20 | 11.100 | 8.26   | 17.100 | 1.65 | 23.10 | 1.10 |
| 5.133 | 2.20 | 11.133 | 8.26   | 17.133 | 1.65 | 23.13 | 1.10 |
| 5.167 | 2.20 | 11.167 | 8.26   | 17.167 | 1.65 | 23.17 | 1.10 |
| 5.200 | 2.20 | 11.200 | 8.26   | 17.200 | 1.65 | 23.20 | 1.10 |
| 5.233 | 2.20 | 11.233 | 12.11  | 17.233 | 2.20 | 23.23 | 1.10 |
| 5.267 | 2.20 | 11.267 | 12.11  | 17.267 | 2.20 | 23.27 | 1.10 |
| 5.300 | 2.20 | 11.300 | 12.11  | 17.300 | 2.20 | 23.30 | 1.10 |
| 5.333 | 2.20 | 11.333 | 12.11  | 17.333 | 2.20 | 23.33 | 1.10 |
| 5.367 | 2.20 | 11.367 | 12.11  | 17.367 | 2.20 | 23.37 | 1.10 |
| 5.400 | 2.20 | 11.400 | 12.13  | 17.400 | 2.20 | 23.40 | 1.10 |
| 5.433 | 2.20 | 11.433 | 29.18  | 17.433 | 1.65 | 23.43 | 1.65 |
| 5.467 | 2.20 | 11.467 | 29.18  | 17.467 | 1.65 | 23.47 | 1.65 |
| 5.500 | 2.20 | 11.500 | 29.18  | 17.500 | 1.65 | 23.50 | 1.65 |
| 5.533 | 2.20 | 11.533 | 29.18  | 17.533 | 1.65 | 23.53 | 1.65 |
| 5.567 | 2.20 | 11.567 | 29.18  | 17.567 | 1.65 | 23.57 | 1.65 |
| 5.600 | 2.20 | 11.600 | 29.22  | 17.600 | 1.65 | 23.60 | 1.65 |
| 5.633 | 2.20 | 11.633 | 60.56  | 17.633 | 2.20 | 23.63 | 1.10 |
| 5.667 | 2.20 | 11.667 | 60.56  | 17.667 | 2.20 | 23.67 | 1.10 |
| 5.700 | 2.20 | 11.700 | 60.56  | 17.700 | 2.20 | 23.70 | 1.10 |
| 5.733 | 2.20 | 11.733 | 60.56  | 17.733 | 2.20 | 23.73 | 1.10 |
| 5.767 | 2.20 | 11.767 | 60.56  | 17.767 | 2.20 | 23.77 | 1.10 |
| 5.800 | 2.20 | 11.800 | 60.64  | 17.800 | 2.20 | 23.80 | 1.10 |
| 5.833 | 2.20 | 11.833 | 123.86 | 17.833 | 1.65 | 23.83 | 1.10 |
| 5.867 | 2.20 | 11.867 | 123.86 | 17.867 | 1.65 | 23.87 | 1.10 |
| 5.900 | 2.20 | 11.900 | 123.86 | 17.900 | 1.65 | 23.90 | 1.10 |
| 5.933 | 2.20 | 11.933 | 123.86 | 17.933 | 1.65 | 23.93 | 1.10 |
| 5.967 | 2.20 | 11.967 | 123.86 | 17.967 | 1.65 | 23.97 | 1.10 |
| 6.000 | 2.20 | 12.000 | 123.72 | 18.000 | 1.65 | 24.00 | 1.10 |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

|                                          |                    |                  |                    |              |
|------------------------------------------|--------------------|------------------|--------------------|--------------|
| -----                                    |                    |                  |                    |              |
| RESERVOIR( 0202)                         |                    |                  |                    |              |
| IN= 2---> OUT= 1                         |                    |                  |                    |              |
| DT= 2.0 min                              |                    |                  |                    |              |
| OVERFLOW IS OFF                          |                    |                  |                    |              |
| OUTFLOW<br>(cms)                         | STORAGE<br>(ha.m.) | OUTFLOW<br>(cms) | STORAGE<br>(ha.m.) |              |
| 0.0000                                   | 0.0000             | 1.2700           | 0.5195             |              |
| 0.0070                                   | 0.0018             | 1.4910           | 0.6170             |              |
| 0.0500                                   | 0.1672             | 1.7350           | 0.7524             |              |
| 0.1740                                   | 0.2483             | 2.7110           | 0.8941             |              |
| 0.6720                                   | 0.3349             | 5.2440           | 1.1182             |              |
| 1.0220                                   | 0.4254             | 0.0000           | 0.0000             |              |
|                                          |                    |                  |                    |              |
|                                          | AREA<br>(ha)       | QPEAK<br>(cms)   | TPEAK<br>(hrs)     | R.V.<br>(mm) |
| INFLOW : ID= 2 ( 0042)                   | 17.270             | 3.147            | 12.07              | 65.93        |
| OUTFLOW: ID= 1 ( 0202)                   | 17.270             | 1.160            | 12.37              | 63.76        |
|                                          |                    |                  |                    |              |
| PEAK FLOW REDUCTION [Qout/Qin](%)= 36.88 |                    |                  |                    |              |
| TIME SHIFT OF PEAK FLOW (min)= 18.00     |                    |                  |                    |              |
| MAXIMUM STORAGE USED (ha.m.)= 0.4763     |                    |                  |                    |              |
| -----                                    |                    |                  |                    |              |

|                   |              |                |                |              |
|-------------------|--------------|----------------|----------------|--------------|
| ADD HYD ( 0080)   |              |                |                |              |
| 1 + 2 = 3         |              |                |                |              |
|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0202):   | 17.27        | 1.160          | 12.37          | 63.76        |
| + ID2= 2 ( 0033): | 14.33        | 0.758          | 12.30          | 54.41        |
| =====             |              |                |                |              |
| ID = 3 ( 0080):   | 31.60        | 1.915          | 12.33          | 59.52        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|     |      |       |       |   |   |       |    |              |
|-----|------|-------|-------|---|---|-------|----|--------------|
| V   | V    | I     | SSSSS | U | U | A     | L  | (v 6.2.2015) |
| V   | V    | I     | SS    | U | U | A     | L  |              |
| V   | V    | I     | SS    | U | U | AAAAA | L  |              |
| V   | V    | I     | SS    | U | U | A     | L  |              |
| VV  | I    | SSSSS | UUUUU | A | A | LLLLL |    |              |
|     |      |       |       |   |   |       |    |              |
| 000 | TTTT | TTTT  | H     | H | Y | Y     | M  | 000 TM       |
| 0   | 0    | T     | T     | H | H | Y     | MM | 0 0          |
| 0   | 0    | T     | T     | H | H | Y     | M  | 0 0          |
| 000 | T    | T     | H     | H | Y | M     | M  | 000          |

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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\V02\voind.dat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\ac49f1b9-42bb-4e74-9c1e-4b29d224bdfefsc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\ac49f1b9-42bb-4e74-9c1e-4b29d224bdfefsc

DATE: 09/21/2025 TIME: 03:01:40

USER:

COMMENTS: -----

\*\* SIMULATION : 2yr 24hr 12min SCS Type II (M) \*\*  
\*\*\*\*\*

|                  |                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------|
| MASS STORM       | Filename: C:\Users\hfaulkner\AppData\Local\Temp\732e9928-e126-4c89-9ccf-fd4c260976d9\7aaaa25d |
| Ptotal= 61.20 mm | Comments: 24-hour SCS Type-II Mass Storm Curve                                                |

Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.00        | 0.61          | 6.00        | 1.22          | 12.00       | 12.24         | 18.00       | 0.92          |
| 0.20        | 0.61          | 6.20        | 1.22          | 12.20       | 7.65          | 18.20       | 0.92          |
| 0.40        | 0.61          | 6.40        | 1.22          | 12.40       | 5.51          | 18.40       | 1.22          |
| 0.60        | 0.61          | 6.60        | 1.22          | 12.60       | 5.20          | 18.60       | 0.92          |
| 0.80        | 0.61          | 6.80        | 1.22          | 12.80       | 3.67          | 18.80       | 0.92          |
| 1.00        | 0.61          | 7.00        | 1.22          | 13.00       | 3.06          | 19.00       | 1.22          |
| 1.20        | 0.61          | 7.20        | 1.22          | 13.20       | 3.06          | 19.20       | 0.92          |
| 1.40        | 0.61          | 7.40        | 1.22          | 13.40       | 3.06          | 19.40       | 1.22          |
| 1.60        | 0.61          | 7.60        | 1.22          | 13.60       | 3.06          | 19.60       | 0.92          |
| 1.80        | 0.61          | 7.80        | 1.22          | 13.80       | 3.06          | 19.80       | 1.22          |
| 2.00        | 0.61          | 8.00        | 1.84          | 14.00       | 1.84          | 20.00       | 0.92          |
| 2.20        | 0.61          | 8.20        | 1.84          | 14.20       | 1.84          | 20.20       | 0.92          |
| 2.40        | 0.61          | 8.40        | 1.84          | 14.40       | 1.84          | 20.40       | 0.61          |
| 2.60        | 0.61          | 8.60        | 1.84          | 14.60       | 1.84          | 20.60       | 0.92          |
| 2.80        | 0.61          | 8.80        | 1.84          | 14.80       | 1.84          | 20.80       | 0.92          |
| 3.00        | 0.61          | 9.00        | 1.84          | 15.00       | 1.53          | 21.00       | 0.61          |
| 3.20        | 0.61          | 9.20        | 1.84          | 15.20       | 1.53          | 21.20       | 0.92          |
| 3.40        | 0.61          | 9.40        | 1.84          | 15.40       | 1.53          | 21.40       | 0.61          |
| 3.60        | 0.61          | 9.60        | 1.84          | 15.60       | 1.53          | 21.60       | 0.92          |
| 3.80        | 0.61          | 9.80        | 1.84          | 15.80       | 1.53          | 21.80       | 0.61          |
| 4.00        | 1.22          | 10.00       | 3.37          | 16.00       | 1.53          | 22.00       | 0.61          |
| 4.20        | 1.22          | 10.20       | 3.37          | 16.20       | 1.53          | 22.20       | 0.92          |
| 4.40        | 1.22          | 10.40       | 3.37          | 16.40       | 1.53          | 22.40       | 0.61          |
| 4.60        | 1.22          | 10.60       | 3.37          | 16.60       | 1.53          | 22.60       | 0.92          |
| 4.80        | 1.22          | 10.80       | 3.37          | 16.80       | 0.92          | 22.80       | 0.61          |
| 5.00        | 1.22          | 11.00       | 4.59          | 17.00       | 0.92          | 23.00       | 0.61          |
| 5.20        | 1.22          | 11.20       | 6.73          | 17.20       | 1.22          | 23.20       | 0.61          |
| 5.40        | 1.22          | 11.40       | 16.22         | 17.40       | 0.92          | 23.40       | 0.92          |
| 5.60        | 1.22          | 11.60       | 33.66         | 17.60       | 1.22          | 23.60       | 0.61          |
| 5.80        | 1.22          | 11.80       | 68.85         | 17.80       | 0.92          | 23.80       | 0.61          |

|                   |               |      |                      |      |
|-------------------|---------------|------|----------------------|------|
| CALIB             | Area (ha)=    | 1.19 | Curve Number (CN)=   | 81.0 |
| NASHYD ( 0301)    | Ia (mm)=      | 6.80 | # of Linear Res.(N)= | 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= | 0.24 |                      |      |

| ----- TRANSFORMED HYETOGRAPH ----- |               |             |               |             |               |             |               |
|------------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                        | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                              | 0.61          | 6.033       | 1.22          | 12.033      | 12.24         | 18.03       | 0.92          |
| 0.067                              | 0.61          | 6.067       | 1.22          | 12.067      | 12.24         | 18.07       | 0.92          |
| 0.100                              | 0.61          | 6.100       | 1.22          | 12.100      | 12.24         | 18.10       | 0.92          |
| 0.133                              | 0.61          | 6.133       | 1.22          | 12.133      | 12.24         | 18.13       | 0.92          |
| 0.167                              | 0.61          | 6.167       | 1.22          | 12.167      | 12.24         | 18.17       | 0.92          |
| 0.200                              | 0.61          | 6.200       | 1.22          | 12.200      | 12.23         | 18.20       | 0.92          |
| 0.233                              | 0.61          | 6.233       | 1.22          | 12.233      | 7.65          | 18.23       | 0.92          |
| 0.267                              | 0.61          | 6.267       | 1.22          | 12.267      | 7.65          | 18.27       | 0.92          |
| 0.300                              | 0.61          | 6.300       | 1.22          | 12.300      | 7.65          | 18.30       | 0.92          |
| 0.333                              | 0.61          | 6.333       | 1.22          | 12.333      | 7.65          | 18.33       | 0.92          |
| 0.367                              | 0.61          | 6.367       | 1.22          | 12.367      | 7.65          | 18.37       | 0.92          |
| 0.400                              | 0.61          | 6.400       | 1.22          | 12.400      | 7.65          | 18.40       | 0.92          |
| 0.433                              | 0.61          | 6.433       | 1.22          | 12.433      | 5.51          | 18.43       | 1.22          |
| 0.467                              | 0.61          | 6.467       | 1.22          | 12.467      | 5.51          | 18.47       | 1.22          |
| 0.500                              | 0.61          | 6.500       | 1.22          | 12.500      | 5.51          | 18.50       | 1.22          |
| 0.533                              | 0.61          | 6.533       | 1.22          | 12.533      | 5.51          | 18.53       | 1.22          |
| 0.567                              | 0.61          | 6.567       | 1.22          | 12.567      | 5.51          | 18.57       | 1.22          |
| 0.600                              | 0.61          | 6.600       | 1.22          | 12.600      | 5.51          | 18.60       | 1.22          |
| 0.633                              | 0.61          | 6.633       | 1.22          | 12.633      | 5.20          | 18.63       | 0.92          |
| 0.667                              | 0.61          | 6.667       | 1.22          | 12.667      | 5.20          | 18.67       | 0.92          |
| 0.700                              | 0.61          | 6.700       | 1.22          | 12.700      | 5.20          | 18.70       | 0.92          |
| 0.733                              | 0.61          | 6.733       | 1.22          | 12.733      | 5.20          | 18.73       | 0.92          |
| 0.767                              | 0.61          | 6.767       | 1.22          | 12.767      | 5.20          | 18.77       | 0.92          |
| 0.800                              | 0.61          | 6.800       | 1.22          | 12.800      | 5.20          | 18.80       | 0.92          |
| 0.833                              | 0.61          | 6.833       | 1.22          | 12.833      | 3.67          | 18.83       | 0.92          |
| 0.867                              | 0.61          | 6.867       | 1.22          | 12.867      | 3.67          | 18.87       | 0.92          |
| 0.900                              | 0.61          | 6.900       | 1.22          | 12.900      | 3.67          | 18.90       | 0.92          |
| 0.933                              | 0.61          | 6.933       | 1.22          | 12.933      | 3.67          | 18.93       | 0.92          |
| 0.967                              | 0.61          | 6.967       | 1.22          | 12.967      | 3.67          | 18.97       | 0.92          |
| 1.000                              | 0.61          | 7.000       | 1.22          | 13.000      | 3.67          | 19.00       | 0.92          |
| 1.033                              | 0.61          | 7.033       | 1.22          | 13.033      | 3.06          | 19.03       | 1.22          |
| 1.067                              | 0.61          | 7.067       | 1.22          | 13.067      | 3.06          | 19.07       | 1.22          |
| 1.100                              | 0.61          | 7.100       | 1.22          | 13.100      | 3.06          | 19.10       | 1.22          |
| 1.133                              | 0.61          | 7.133       | 1.22          | 13.133      | 3.06          | 19.13       | 1.22          |
| 1.167                              | 0.61          | 7.167       | 1.22          | 13.167      | 3.06          | 19.17       | 1.22          |
| 1.200                              | 0.61          | 7.200       | 1.22          | 13.200      | 3.06          | 19.20       | 1.22          |
| 1.233                              | 0.61          | 7.233       | 1.22          | 13.233      | 3.06          | 19.23       | 0.92          |
| 1.267                              | 0.61          | 7.267       | 1.22          | 13.267      | 3.06          | 19.27       | 0.92          |
| 1.300                              | 0.61          | 7.300       | 1.22          | 13.300      | 3.06          | 19.30       | 0.92          |
| 1.333                              | 0.61          | 7.333       | 1.22          | 13.333      | 3.06          | 19.33       | 0.92          |
| 1.367                              | 0.61          | 7.367       | 1.22          | 13.367      | 3.06          | 19.37       | 0.92          |
| 1.400                              | 0.61          | 7.400       | 1.22          | 13.400      | 3.06          | 19.40       | 0.92          |
| 1.433                              | 0.61          | 7.433       | 1.22          | 13.433      | 3.06          | 19.43       | 1.22          |
| 1.467                              | 0.61          | 7.467       | 1.22          | 13.467      | 3.06          | 19.47       | 1.22          |
| 1.500                              | 0.61          | 7.500       | 1.22          | 13.500      | 3.06          | 19.50       | 1.22          |
| 1.533                              | 0.61          | 7.533       | 1.22          | 13.533      | 3.06          | 19.53       | 1.22          |
| 1.567                              | 0.61          | 7.567       | 1.22          | 13.567      | 3.06          | 19.57       | 1.22          |
| 1.600                              | 0.61          | 7.600       | 1.22          | 13.600      | 3.06          | 19.60       | 1.22          |
| 1.633                              | 0.61          | 7.633       | 1.22          | 13.633      | 3.06          | 19.63       | 0.92          |
| 1.667                              | 0.61          | 7.667       | 1.22          | 13.667      | 3.06          | 19.67       | 0.92          |
| 1.700                              | 0.61          | 7.700       | 1.22          | 13.700      | 3.06          | 19.70       | 0.92          |
| 1.733                              | 0.61          | 7.733       | 1.22          | 13.733      | 3.06          | 19.73       | 0.92          |
| 1.767                              | 0.61          | 7.767       | 1.22          | 13.767      | 3.06          | 19.77       | 0.92          |
| 1.800                              | 0.61          | 7.800       | 1.22          | 13.800      | 3.06          | 19.80       | 0.92          |
| 1.833                              | 0.61          | 7.833       | 1.22          | 13.833      | 3.06          | 19.83       | 1.22          |
| 1.867                              | 0.61          | 7.867       | 1.22          | 13.867      | 3.06          | 19.87       | 1.22          |
| 1.900                              | 0.61          | 7.900       | 1.22          | 13.900      | 3.06          | 19.90       | 1.22          |
| 1.933                              | 0.61          | 7.933       | 1.22          | 13.933      | 3.06          | 19.93       | 1.22          |
| 1.967                              | 0.61          | 7.967       | 1.22          | 13.967      | 3.06          | 19.97       | 1.22          |
| 2.000                              | 0.61          | 8.000       | 1.22          | 14.000      | 3.06          | 20.00       | 1.22          |
| 2.033                              | 0.61          | 8.033       | 1.84          | 14.033      | 1.84          | 20.03       | 0.92          |
| 2.067                              | 0.61          | 8.067       | 1.84          | 14.067      | 1.84          | 20.07       | 0.92          |
| 2.100                              | 0.61          | 8.100       | 1.84          | 14.100      | 1.84          | 20.10       | 0.92          |
| 2.133                              | 0.61          | 8.133       | 1.84          | 14.133      | 1.84          | 20.13       | 0.92          |
| 2.167                              | 0.61          | 8.167       | 1.84          | 14.167      | 1.84          | 20.17       | 0.92          |
| 2.200                              | 0.61          | 8.200       | 1.84          | 14.200      | 1.84          | 20.20       | 0.92          |
| 2.233                              | 0.61          | 8.233       | 1.84          | 14.233      | 1.84          | 20.23       | 0.92          |
| 2.267                              | 0.61          | 8.267       | 1.84          | 14.267      | 1.84          | 20.27       | 0.92          |
| 2.300                              | 0.61          | 8.300       | 1.84          | 14.300      | 1.84          | 20.30       | 0.92          |
| 2.333                              | 0.61          | 8.333       | 1.84          | 14.333      | 1.84          | 20.33       | 0.92          |
| 2.367                              | 0.61          | 8.367       | 1.84          | 14.367      | 1.84          | 20.37       | 0.92          |
| 2.400                              | 0.61          | 8.400       | 1.84          | 14.400      | 1.84          | 20.40       | 0.92          |
| 2.433                              | 0.61          | 8.433       | 1.84          | 14.433      | 1.84          | 20.43       | 0.61          |
| 2.467                              | 0.61          | 8.467       | 1.84          | 14.467      | 1.84          | 20.47       | 0.61          |
| 2.500                              | 0.61          | 8.500       | 1.84          | 14.500      | 1.84          | 20.50       | 0.61          |
| 2.533                              | 0.61          | 8.533       | 1.84          | 14.533      | 1.84          | 20.53       | 0.61          |
| 2.567                              | 0.61          | 8.567       | 1.84          | 14.567      | 1.84          | 20.57       | 0.61          |
| 2.600                              | 0.61          | 8.600       | 1.84          | 14.600      | 1.84          | 20.60       | 0.61          |
| 2.633                              | 0.61          | 8.633       | 1.84          | 14.633      | 1.84          | 20.63       | 0.92          |
| 2.667                              | 0.61          | 8.667       | 1.84          | 14.667      | 1.84          | 20.67       | 0.92          |
| 2.700                              | 0.61          | 8.700       | 1.84          | 14.700      | 1.84          | 20.70       | 0.92          |
| 2.733                              | 0.61          | 8.733       | 1.84          | 14.733      | 1.84          | 20.73       | 0.92          |
| 2.767                              | 0.61          | 8.767       | 1.84          | 14.767      | 1.84          | 20.77       | 0.92          |
| 2.800                              | 0.61          | 8.800       | 1.84          | 14.800      | 1.84          | 20.80       | 0.92          |
| 2.833                              | 0.61          | 8.833       | 1.84          | 14.833      | 1.84          | 20.83       | 0.92          |
| 2.867                              | 0.61          | 8.867       | 1.84          | 14.867      | 1.84          | 20.87       | 0.92          |
| 2.900                              | 0.61          | 8.900       | 1.84          | 14.900      | 1.84          | 20.90       | 0.92          |
| 2.933                              | 0.61          | 8.933       | 1.84          | 14.933      | 1.84          | 20.93       | 0.92          |
| 2.967                              | 0.61          | 8.967       | 1.84          | 14.967      | 1.84          | 20.97       | 0.92          |
| 3.000                              | 0.61          | 9.000       | 1.84          | 15.000      | 1.84          | 21.00       | 0.92          |
| 3.033                              | 0.61          | 9.033       | 1.84          | 15.033      | 1.53          | 21.03       | 0.61          |
| 3.067                              | 0.61          | 9.067       | 1.84          | 15.067      | 1.53          | 21.07       | 0.61          |
| 3.100                              | 0.61          | 9.100       | 1.84          | 15.100      | 1.53          | 21.10       | 0.61          |
| 3.133                              | 0.61          | 9.133       | 1.84          | 15.133      | 1.53          | 21.13       | 0.61          |
| 3.167                              | 0.61          | 9.167       | 1.84          | 15.167      | 1.53          | 21.17       | 0.61          |
| 3.200                              | 0.61          | 9.200       | 1.84          | 15.200      | 1.53          | 21.20       | 0.61          |
| 3.233                              | 0.61          | 9.233       | 1.84          | 15.233      | 1.53          | 21.23       | 0.92          |
| 3.267                              | 0.61          | 9.267       | 1.84          | 15.267      | 1.53          | 21.27       | 0.92          |
| 3.300                              | 0.61          | 9.300       | 1.84          | 15.300      | 1.53          | 21.30       | 0.92          |
| 3.333                              | 0.61          | 9.333       | 1.84          | 15.333      | 1.53          | 21.33       | 0.92          |
| 3.367                              | 0.61          | 9.367       | 1.84          | 15.367      | 1.53          | 21.37       | 0.92          |
| 3.400                              | 0.61          | 9.400       | 1.84          | 15.400      | 1.53          | 21.40       | 0.92          |
| 3.433                              | 0.61          | 9.433       | 1.84          | 15.433      | 1.53          | 21.43       | 0.61          |
| 3.467                              | 0.61          | 9.467       | 1.84          | 15.467      | 1.53          | 21.47       | 0.61          |
| 3.500                              | 0.61          | 9.500       | 1.84          | 15.500      | 1.53          | 21.50       | 0.61          |
| 3.533                              | 0.61          | 9.533       | 1.84          | 15.533      | 1.53          | 21.53       | 0.61          |
| 3.567                              | 0.61          | 9.567       | 1.84          | 15.567      | 1.53          | 21.57       | 0.61          |
| 3.600                              | 0.61          | 9.600       | 1.84          | 15.600      | 1.53          | 21.60       | 0.61          |
| 3.633                              | 0.61          | 9.633       | 1.84          | 15.633      | 1.53          | 21.63       | 0.92          |
| 3.667                              | 0.61          | 9.667       | 1.84          | 15.667      | 1.53          | 21.67       | 0.92          |
| 3.700                              | 0.61          | 9.700       | 1.84          | 15.700      | 1.53          | 21.70       | 0.92          |
| 3.733                              | 0.61          | 9.733       | 1.84          | 15.733      | 1.53          | 21.73       | 0.92          |
| 3.767                              | 0.61          | 9.767       | 1.84          | 15.767      | 1.53          | 21.77       | 0.92          |
| 3.800                              | 0.61          | 9.800       | 1.84          | 15.800      | 1.53          | 21.80       | 0.92          |
| 3.833                              | 0.61          | 9.833       | 1.84          | 15.833      | 1.53          | 21.83       | 0.61          |
| 3.867                              | 0.61          | 9.867       | 1.84          | 15.867      | 1.53          | 21.87       | 0.61          |
| 3.900                              | 0.61          | 9.900       | 1.84          | 15.900      | 1.53          | 21.90       | 0.61          |
| 3.933                              | 0.61          | 9.933       | 1.84          | 15.933      | 1.53          | 21.93       | 0.61          |
| 3.967                              | 0.61          | 9.967       | 1.84          | 15.967      | 1.53          | 21.97       | 0.61          |
| 4.000                              | 0.61          | 10.000      | 1.84          | 16.000      | 1.53          | 22.00       | 0.61          |
| 4.033                              | 1.22          | 10.033      | 3.37          | 16.033      | 1.53          | 22.03       | 0.61          |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 1.593 | 0.61 | 7.593  | 1.22  | 13.593 | 3.06 | 19.59 | 1.22 |
| 1.590 | 0.61 | 7.590  | 1.22  | 13.533 | 3.06 | 19.53 | 1.22 |
| 1.567 | 0.61 | 7.567  | 1.22  | 13.567 | 3.06 | 19.57 | 1.22 |
| 1.600 | 0.61 | 7.600  | 1.22  | 13.600 | 3.06 | 19.60 | 1.22 |
| 1.633 | 0.61 | 7.633  | 1.22  | 13.633 | 3.06 | 19.63 | 0.92 |
| 1.667 | 0.61 | 7.667  | 1.22  | 13.667 | 3.06 | 19.67 | 0.92 |
| 1.700 | 0.61 | 7.700  | 1.22  | 13.700 | 3.06 | 19.70 | 0.92 |
| 1.733 | 0.61 | 7.733  | 1.22  | 13.733 | 3.06 | 19.73 | 0.92 |
| 1.767 | 0.61 | 7.767  | 1.22  | 13.767 | 3.06 | 19.77 | 0.92 |
| 1.800 | 0.61 | 7.800  | 1.22  | 13.800 | 3.06 | 19.80 | 0.92 |
| 1.833 | 0.61 | 7.833  | 1.22  | 13.833 | 3.06 | 19.83 | 1.22 |
| 1.867 | 0.61 | 7.867  | 1.22  | 13.867 | 3.06 | 19.87 | 1.22 |
| 1.900 | 0.61 | 7.900  | 1.22  | 13.900 | 3.06 | 19.90 | 1.22 |
| 1.933 | 0.61 | 7.933  | 1.22  | 13.933 | 3.06 | 19.93 | 1.22 |
| 1.967 | 0.61 | 7.967  | 1.22  | 13.967 | 3.06 | 19.97 | 1.22 |
| 2.000 | 0.61 | 8.000  | 1.22  | 14.000 | 3.06 | 20.00 | 1.22 |
| 2.033 | 0.61 | 8.033  | 1.22  | 14.033 | 1.84 | 20.03 | 0.92 |
| 2.067 | 0.61 | 8.067  | 1.84  | 14.067 | 1.84 | 20.07 | 0.92 |
| 2.100 | 0.61 | 8.100  | 1.84  | 14.100 | 1.84 | 20.10 | 0.92 |
| 2.133 | 0.61 | 8.133  | 1.84  | 14.133 | 1.84 | 20.13 | 0.92 |
| 2.167 | 0.61 | 8.167  | 1.84  | 14.167 | 1.84 | 20.17 | 0.92 |
| 2.200 | 0.61 | 8.200  | 1.84  | 14.200 | 1.84 | 20.20 | 0.92 |
| 2.233 | 0.61 | 8.233  | 1.84  | 14.233 | 1.84 | 20.23 | 0.92 |
| 2.267 | 0.61 | 8.267  | 1.84  | 14.267 | 1.84 | 20.27 | 0.92 |
| 2.300 | 0.61 | 8.300  | 1.84  | 14.300 | 1.84 | 20.30 | 0.92 |
| 2.333 | 0.61 | 8.333  | 1.84  | 14.333 | 1.84 | 20.33 | 0.92 |
| 2.367 | 0.61 | 8.367  | 1.84  | 14.367 | 1.84 | 20.37 | 0.92 |
| 2.400 | 0.61 | 8.400  | 1.84  | 14.400 | 1.84 | 20.40 | 0.92 |
| 2.433 | 0.61 | 8.433  | 1.84  | 14.433 | 1.84 | 20.43 | 0.92 |
| 2.467 | 0.61 | 8.467  | 1.84  | 14.467 | 1.84 | 20.47 | 0.92 |
| 2.500 | 0.61 | 8.500  | 1.84  | 14.500 | 1.84 | 20.50 | 0.92 |
| 2.533 | 0.61 | 8.533  | 1.84  | 14.533 | 1.84 | 20.53 | 0.61 |
| 2.567 | 0.61 | 8.567  | 1.84  | 14.567 | 1.84 | 20.57 | 0.61 |
| 2.600 | 0.61 | 8.600  | 1.84  | 14.600 | 1.84 | 20.60 | 0.61 |
| 2.633 | 0.61 | 8.633  | 1.84  | 14.633 | 1.84 | 20.63 | 0.92 |
| 2.667 | 0.61 | 8.667  | 1.84  | 14.667 | 1.84 | 20.67 | 0.92 |
| 2.700 | 0.61 | 8.700  | 1.84  | 14.700 | 1.84 | 20.70 | 0.92 |
| 2.733 | 0.61 | 8.733  | 1.84  | 14.733 | 1.84 | 20.73 | 0.92 |
| 2.767 | 0.61 | 8.767  | 1.84  | 14.767 | 1.84 | 20.77 | 0.92 |
| 2.800 | 0.61 | 8.800  | 1.84  | 14.800 | 1.84 | 20.80 | 0.92 |
| 2.833 | 0.61 | 8.833  | 1.84  | 14.833 | 1.84 | 20.83 | 0.92 |
| 2.867 | 0.61 | 8.867  | 1.84  | 14.867 | 1.84 | 20.87 | 0.92 |
| 2.900 | 0.61 | 8.900  | 1.84  | 14.900 | 1.84 | 20.90 | 0.92 |
| 2.933 | 0.61 | 8.933  | 1.84  | 14.933 | 1.84 | 20.93 | 0.92 |
| 2.967 | 0.61 | 8.967  | 1.84  | 14.967 | 1.84 | 20.97 | 0.92 |
| 3.000 | 0.61 | 9.000  | 1.84  | 15.000 | 1.84 | 21.00 | 0.92 |
| 3.033 | 0.61 | 9.033  | 1.84  | 15.033 | 1.53 | 21.03 | 0.61 |
| 3.067 | 0.61 | 9.067  | 1.84  | 15.067 | 1.53 | 21.07 | 0.61 |
| 3.100 | 0.61 | 9.100  | 1.84  | 15.100 | 1.53 | 21.10 | 0.61 |
| 3.133 | 0.61 | 9.133  | 1.84  | 15.133 | 1.53 | 21.13 | 0.61 |
| 3.167 | 0.61 | 9.167  | 1.84  | 15.167 | 1.53 | 21.17 | 0.61 |
| 3.200 | 0.61 | 9.200  | 1.84  | 15.200 | 1.53 | 21.20 | 0.61 |
| 3.233 | 0.61 | 9.233  | 1.84  | 15.233 | 1.53 | 21.23 | 0.92 |
| 3.267 | 0.61 | 9.267  | 1.84  | 15.267 | 1.53 | 21.27 | 0.92 |
| 3.300 | 0.61 | 9.300  | 1.84  | 15.300 | 1.53 | 21.30 | 0.92 |
| 3.333 | 0.61 | 9.333  | 1.84  | 15.333 | 1.53 | 21.33 | 0.92 |
| 3.367 | 0.61 | 9.367  | 1.84  | 15.367 | 1.53 | 21.37 | 0.92 |
| 3.400 | 0.61 | 9.400  | 1.84  | 15.400 | 1.53 | 21.40 | 0.92 |
| 3.433 | 0.61 | 9.433  | 1.84  | 15.433 | 1.53 | 21.43 | 0.61 |
| 3.467 | 0.61 | 9.467  | 1.84  | 15.467 | 1.53 | 21.47 | 0.61 |
| 3.500 | 0.61 | 9.500  | 1.84  | 15.500 | 1.53 | 21.50 | 0.61 |
| 3.533 | 0.61 | 9.533  | 1.84  | 15.533 | 1.53 | 21.53 | 0.61 |
| 3.567 | 0.61 | 9.567  | 1.84  | 15.567 | 1.53 | 21.57 | 0.61 |
| 3.600 | 0.61 | 9.600  | 1.84  | 15.600 | 1.53 | 21.60 | 0.61 |
| 3.633 | 0.61 | 9.633  | 1.84  | 15.633 | 1.53 | 21.63 | 0.92 |
| 3.667 | 0.61 | 9.667  | 1.84  | 15.667 | 1.53 | 21.67 | 0.92 |
| 3.700 | 0.61 | 9.700  | 1.84  | 15.700 | 1.53 | 21.70 | 0.92 |
| 3.733 | 0.61 | 9.733  | 1.84  | 15.733 | 1.53 | 21.73 | 0.92 |
| 3.767 | 0.61 | 9.767  | 1.84  | 15.767 | 1.53 | 21.77 | 0.92 |
| 3.800 | 0.61 | 9.800  | 1.84  | 15.800 | 1.53 | 21.80 | 0.92 |
| 3.833 | 0.61 | 9.833  | 1.84  | 15.833 | 1.53 | 21.83 | 0.61 |
| 3.867 | 0.61 | 9.867  | 1.84  | 15.867 | 1.53 | 21.87 | 0.61 |
| 3.900 | 0.61 | 9.900  | 1.84  | 15.900 | 1.53 | 21.90 | 0.61 |
| 3.933 | 0.61 | 9.933  | 1.84  | 15.933 | 1.53 | 21.93 | 0.61 |
| 3.967 | 0.61 | 9.967  | 1.84  | 15.967 | 1.53 | 21.97 | 0.61 |
| 4.000 | 0.61 | 10.000 | 1.84  | 16.000 | 1.53 | 22.00 | 0.61 |
| 4.033 | 1.22 | 10.033 | 3.37  | 16.033 | 1.53 | 22.03 | 0.61 |
| 4.067 | 1.22 | 10.067 | 3.37  | 16.067 | 1.53 | 22.07 | 0.61 |
| 4.100 | 1.22 | 10.100 | 3.37  | 16.100 | 1.53 | 22.10 | 0.61 |
| 4.133 | 1.22 | 10.133 | 3.37  | 16.133 | 1.53 | 22.13 | 0.61 |
| 4.167 | 1.22 | 10.167 | 3.37  | 16.167 | 1.53 | 22.17 | 0.61 |
| 4.200 | 1.22 | 10.200 | 3.37  | 16.200 | 1.53 | 22.20 | 0.61 |
| 4.233 | 1.22 | 10.233 | 3.37  | 16.233 | 1.53 | 22.23 | 0.92 |
| 4.267 | 1.22 | 10.267 | 3.37  | 16.267 | 1.53 | 22.27 | 0.92 |
| 4.300 | 1.22 | 10.300 | 3.37  | 16.300 | 1.53 | 22.30 | 0.92 |
| 4.333 | 1.22 | 10.333 | 3.37  | 16.333 | 1.53 | 22.33 | 0.92 |
| 4.367 | 1.22 | 10.367 | 3.37  | 16.367 | 1.53 | 22.37 | 0.92 |
| 4.400 | 1.22 | 10.400 | 3.37  | 16.400 | 1.53 | 22.40 | 0.92 |
| 4.433 | 1.22 | 10.433 | 3.37  | 16.433 | 1.53 | 22.43 | 0.61 |
| 4.467 | 1.22 | 10.467 | 3.37  | 16.467 | 1.53 | 22.47 | 0.61 |
| 4.500 | 1.22 | 10.500 | 3.37  | 16.500 | 1.53 | 22.50 | 0.61 |
| 4.533 | 1.22 | 10.533 | 3.37  | 16.533 | 1.53 | 22.53 | 0.61 |
| 4.567 | 1.22 | 10.567 | 3.37  | 16.567 | 1.53 | 22.57 | 0.61 |
| 4.600 | 1.22 | 10.600 | 3.37  | 16.600 | 1.53 | 22.60 | 0.61 |
| 4.633 | 1.22 | 10.633 | 3.37  | 16.633 | 1.53 | 22.63 | 0.92 |
| 4.667 | 1.22 | 10.667 | 3.37  | 16.667 | 1.53 | 22.67 | 0.92 |
| 4.700 | 1.22 | 10.700 | 3.37  | 16.700 | 1.53 | 22.70 | 0.92 |
| 4.733 | 1.22 | 10.733 | 3.37  | 16.733 | 1.53 | 22.73 | 0.92 |
| 4.767 | 1.22 | 10.767 | 3.37  | 16.767 | 1.53 | 22.77 | 0.92 |
| 4.800 | 1.22 | 10.800 | 3.37  | 16.800 | 1.53 | 22.80 | 0.92 |
| 4.833 | 1.22 | 10.833 | 3.37  | 16.833 | 0.92 | 22.83 | 0.61 |
| 4.867 | 1.22 | 10.867 | 3.37  | 16.867 | 0.92 | 22.87 | 0.61 |
| 4.900 | 1.22 | 10.900 | 3.37  | 16.900 | 0.92 | 22.90 | 0.61 |
| 4.933 | 1.22 | 10.933 | 3.37  | 16.933 | 0.92 | 22.93 | 0.61 |
| 4.967 | 1.22 | 10.967 | 3.37  | 16.967 | 0.92 | 22.97 | 0.61 |
| 5.000 | 1.22 | 11.000 | 3.37  | 17.000 | 0.92 | 23.00 | 0.61 |
| 5.033 | 1.22 | 11.033 | 4.59  | 17.033 | 0.92 | 23.03 | 0.61 |
| 5.067 | 1.22 | 11.067 | 4.59  | 17.067 | 0.92 | 23.07 | 0.61 |
| 5.100 | 1.22 | 11.100 | 4.59  | 17.100 | 0.92 | 23.10 | 0.61 |
| 5.133 | 1.22 | 11.133 | 4.59  | 17.133 | 0.92 | 23.13 | 0.61 |
| 5.167 | 1.22 | 11.167 | 4.59  | 17.167 | 0.92 | 23.17 | 0.61 |
| 5.200 | 1.22 | 11.200 | 4.59  | 17.200 | 0.92 | 23.20 | 0.61 |
| 5.233 | 1.22 | 11.233 | 6.73  | 17.233 | 1.22 | 23.23 | 0.61 |
| 5.267 | 1.22 | 11.267 | 6.73  | 17.267 | 1.22 | 23.27 | 0.61 |
| 5.300 | 1.22 | 11.300 | 6.73  | 17.300 | 1.22 | 23.30 | 0.61 |
| 5.333 | 1.22 | 11.333 | 6.73  | 17.333 | 1.22 | 23.33 | 0.61 |
| 5.367 | 1.22 | 11.367 | 6.73  | 17.367 | 1.22 | 23.37 | 0.61 |
| 5.400 | 1.22 | 11.400 | 6.74  | 17.400 | 1.22 | 23.40 | 0.61 |
| 5.433 | 1.22 | 11.433 | 16.22 | 17.433 | 0.92 | 23.43 | 0.92 |
| 5.467 | 1.22 | 11.467 | 16.22 | 17.467 | 0.92 | 23.47 | 0.92 |
| 5.500 | 1.22 | 11.500 | 16.22 | 17.500 | 0.92 | 23.50 | 0.92 |
| 5.533 | 1.22 | 11.533 | 16.22 | 17.533 | 0.92 | 23.53 | 0.92 |
| 5.567 | 1.22 | 11.567 | 16.22 | 17.567 | 0.92 | 23.57 | 0.92 |
| 5.600 | 1.22 | 11.600 | 16.24 | 17.600 | 0.92 | 23.60 | 0.92 |
| 5.633 | 1.22 | 11.633 | 33.66 | 17.633 | 1.22 | 23.63 | 0.61 |
| 5.667 | 1.22 | 11.667 | 33.66 | 17.667 | 1.22 | 23.67 | 0.61 |
| 5.700 | 1.22 | 11.700 | 33.66 | 17.700 | 1.22 | 23.70 | 0.61 |

PEAK FLOW (cms)= 0.068 (i)  
TIME TO PEAK (hrs)= 12.133  
RUNOFF VOLUME (mm)= 25.963  
TOTAL RAINFALL (mm)= 61.200  
RUNOFF COEFFICIENT = 0.424

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |               |      |                      |      |
|-------------------|---------------|------|----------------------|------|
| CALIB             | Area (ha)=    | 2.75 | Curve Number (CN)=   | 81.0 |
| NASHYD ( 0302)    | Ia (mm)=      | 6.80 | # of Linear Res.(N)= | 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= | 0.21 |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |       |       |       |        |       |       |       |
|--------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                           | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                            | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                          | 0.61  | 6.033 | 1.22  | 12.033 | 12.24 | 18.03 | 0.92  |
| 0.067                          | 0.61  | 6.067 | 1.22  | 12.067 | 12.24 | 18.07 | 0.92  |
| 0.100                          | 0.61  | 6.100 | 1.22  | 12.100 | 12.24 | 18.10 | 0.92  |
| 0.133                          | 0.61  | 6.133 | 1.22  | 12.133 | 12.24 | 18.13 | 0.92  |
| 0.167                          | 0.61  | 6.167 | 1.22  | 12.167 | 12.24 | 18.17 | 0.92  |
| 0.200                          | 0.61  | 6.200 | 1.22  | 12.200 | 12.23 | 18.20 | 0.92  |
| 0.233                          | 0.61  | 6.233 | 1.22  | 12.233 | 7.65  | 18.23 | 0.92  |
| 0.267                          | 0.61  | 6.267 | 1.22  | 12.267 | 7.65  | 18.27 | 0.92  |
| 0.300                          | 0.61  | 6.300 | 1.22  | 12.300 | 7.65  | 18.30 | 0.92  |
| 0.333                          | 0.61  | 6.333 | 1.22  | 12.333 | 7.65  | 18.33 | 0.92  |
| 0.367                          | 0.61  | 6.367 | 1.22  | 12.367 | 7.65  | 18.37 | 0.92  |
| 0.400                          | 0.61  | 6.400 | 1.22  | 12.400 | 7.65  | 18.40 | 0.92  |
| 0.433                          | 0.61  | 6.433 | 1.22  | 12.433 | 5.51  | 18.43 | 1.22  |
| 0.467                          | 0.61  | 6.467 | 1.22  | 12.467 | 5.51  | 18.47 | 1.22  |
| 0.500                          | 0.61  | 6.500 | 1.22  | 12.500 | 5.51  | 18.50 | 1.22  |
| 0.533                          | 0.61  | 6.533 | 1.22  | 12.533 | 5.51  | 18.53 | 1.22  |
| 0.567                          | 0.61  | 6.567 | 1.22  | 12.567 | 5.51  | 18.57 | 1.22  |
| 0.600                          | 0.61  | 6.600 | 1.22  | 12.600 | 5.51  | 18.60 | 1.22  |
| 0.633                          | 0.61  | 6.633 | 1.22  | 12.633 | 5.20  | 18.63 | 0.92  |
| 0.667                          | 0.61  | 6.667 | 1.22  | 12.667 | 5.20  | 18.67 | 0.92  |
| 0.700                          | 0.61  | 6.700 | 1.22  | 12.700 | 5.20  | 18.70 | 0.92  |
| 0.733                          | 0.61  | 6.733 | 1.22  | 12.733 | 5.20  | 18.73 | 0.92  |
| 0.767                          | 0.61  | 6.767 | 1.22  | 12.767 | 5.20  | 18.77 | 0.92  |
| 0.800                          | 0.61  | 6.800 | 1.22  | 12.800 | 3.67  | 18.80 | 0.92  |
| 0.833                          | 0.61  | 6.833 | 1.22  | 12.833 | 3.67  | 18.83 | 0.92  |
| 0.867                          | 0.61  | 6.867 | 1.22  | 12.867 | 3.67  | 18.87 | 0.92  |
| 0.900                          | 0.61  | 6.900 | 1.22  | 12.900 | 3.67  | 18.90 | 0.92  |
| 0.933                          | 0.61  | 6.933 | 1.22  | 12.933 | 3.67  | 18.93 | 0.92  |
| 0.967                          | 0.61  | 6.967 | 1.22  | 12.967 | 3.67  | 18.97 | 0.92  |
| 1.000                          | 0.61  | 7.000 | 1.22  | 13.000 | 3.67  | 19.00 | 0.92  |
| 1.033                          | 0.61  | 7.033 | 1.22  | 13.033 | 3.06  | 19.03 | 1.22  |
| 1.067                          | 0.61  | 7.067 | 1.22  | 13.067 | 3.06  | 19.07 | 1.22  |
| 1.100                          | 0.61  | 7.100 | 1.22  | 13.100 | 3.06  | 19.10 | 1.22  |
| 1.133                          | 0.61  | 7.133 | 1.22  | 13.133 | 3.06  | 19.13 | 1.22  |
| 1.167                          | 0.61  | 7.167 | 1.22  | 13.167 | 3.06  | 19.17 | 1.22  |
| 1.200                          | 0.61  | 7.200 | 1.22  | 13.200 | 3.06  | 19.20 | 1.22  |
| 1.233                          | 0.61  | 7.233 | 1.22  | 13.233 | 3.06  | 19.23 | 0.92  |
| 1.267                          | 0.61  | 7.267 | 1.22  | 13.267 | 3.06  | 19.27 | 0.92  |
| 1.300                          | 0.61  | 7.300 | 1.22  | 13.300 | 3.06  | 19.30 | 0.92  |
| 1.333                          | 0.61  | 7.333 | 1.22  | 13.333 | 3.06  | 19.33 | 0.92  |
| 1.367                          | 0.61  | 7.367 | 1.22  | 13.367 | 3.06  | 19.37 | 0.92  |
| 1.400                          | 0.61  | 7.400 | 1.22  | 13.400 | 3.06  | 19.40 | 0.92  |
| 1.433                          | 0.61  | 7.433 | 1.22  | 13.433 | 3.06  | 19.43 | 1.22  |
| 1.467                          | 0.61  | 7.467 | 1.22  | 13.467 | 3.06  | 19.47 | 1.22  |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 5.733 | 1.22 | 11.733 | 33.66 | 17.733 | 1.22 | 23.73 | 0.61 |
| 5.767 | 1.22 | 11.767 | 33.66 | 17.767 | 1.22 | 23.77 | 0.61 |
| 5.800 | 1.22 | 11.800 | 33.71 | 17.800 | 1.22 | 23.80 | 0.61 |
| 5.833 | 1.22 | 11.833 | 68.85 | 17.833 | 0.92 | 23.83 | 0.61 |
| 5.867 | 1.22 | 11.867 | 68.85 | 17.867 | 0.92 | 23.87 | 0.61 |
| 5.900 | 1.22 | 11.900 | 68.85 | 17.900 | 0.92 | 23.90 | 0.61 |
| 5.933 | 1.22 | 11.933 | 68.85 | 17.933 | 0.92 | 23.93 | 0.61 |
| 5.967 | 1.22 | 11.967 | 68.85 | 17.967 | 0.92 | 23.97 | 0.61 |
| 6.000 | 1.22 | 12.000 | 68.77 | 18.000 | 0.92 | 24.00 | 0.61 |

Unit Hyd Qpeak (cms)= 0.500

PEAK FLOW (cms)= 0.170 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 25.962  
TOTAL RAINFALL (mm)= 61.200  
RUNOFF COEFFICIENT = 0.424

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |      |       |       |       |
|-------------------|------|-------|-------|-------|
| ADD HYD ( 0030 )  | AREA | QPEAK | TPEAK | R.V.  |
| 1 + 2 = 3         | (ha) | (cms) | (hrs) | (mm)  |
| ID1= 1 ( 0301):   | 1.19 | 0.068 | 12.13 | 25.96 |
| + ID2= 2 ( 0302): | 2.75 | 0.170 | 12.10 | 25.96 |
| =====             |      |       |       |       |
| ID = 3 ( 0030):   | 3.94 | 0.237 | 12.10 | 25.96 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |               |       |      |                      |      |
|-------------------|---------------|-------|------|----------------------|------|
| CALIB             | Area          | (ha)= | 1.14 | Curve Number (CN)=   | 83.0 |
| NASHYD ( 0303 )   | Ia            | (mm)= | 5.60 | # of Linear Res.(N)= | 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= | 0.20  |      |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                              | 0.61  | 6.033 | 1.22  | 12.033 | 12.24 | 18.03 | 0.92  |
| 0.067                              | 0.61  | 6.067 | 1.22  | 12.067 | 12.24 | 18.07 | 0.92  |
| 0.100                              | 0.61  | 6.100 | 1.22  | 12.100 | 12.24 | 18.10 | 0.92  |
| 0.133                              | 0.61  | 6.133 | 1.22  | 12.133 | 12.24 | 18.13 | 0.92  |
| 0.167                              | 0.61  | 6.167 | 1.22  | 12.167 | 12.24 | 18.17 | 0.92  |
| 0.200                              | 0.61  | 6.200 | 1.22  | 12.200 | 12.23 | 18.20 | 0.92  |
| 0.233                              | 0.61  | 6.233 | 1.22  | 12.233 | 7.65  | 18.23 | 0.92  |
| 0.267                              | 0.61  | 6.267 | 1.22  | 12.267 | 7.65  | 18.27 | 0.92  |
| 0.300                              | 0.61  | 6.300 | 1.22  | 12.300 | 7.65  | 18.30 | 0.92  |
| 0.333                              | 0.61  | 6.333 | 1.22  | 12.333 | 7.65  | 18.33 | 0.92  |
| 0.367                              | 0.61  | 6.367 | 1.22  | 12.367 | 7.65  | 18.37 | 0.92  |
| 0.400                              | 0.61  | 6.400 | 1.22  | 12.400 | 7.65  | 18.40 | 0.92  |
| 0.433                              | 0.61  | 6.433 | 1.22  | 12.433 | 5.51  | 18.43 | 1.22  |
| 0.467                              | 0.61  | 6.467 | 1.22  | 12.467 | 5.51  | 18.47 | 1.22  |
| 0.500                              | 0.61  | 6.500 | 1.22  | 12.500 | 5.51  | 18.50 | 1.22  |
| 0.533                              | 0.61  | 6.533 | 1.22  | 12.533 | 5.51  | 18.53 | 1.22  |
| 0.567                              | 0.61  | 6.567 | 1.22  | 12.567 | 5.51  | 18.57 | 1.22  |
| 0.600                              | 0.61  | 6.600 | 1.22  | 12.600 | 5.51  | 18.60 | 1.22  |
| 0.633                              | 0.61  | 6.633 | 1.22  | 12.633 | 5.20  | 18.63 | 0.92  |
| 0.667                              | 0.61  | 6.667 | 1.22  | 12.667 | 5.20  | 18.67 | 0.92  |
| 0.700                              | 0.61  | 6.700 | 1.22  | 12.700 | 5.20  | 18.70 | 0.92  |
| 0.733                              | 0.61  | 6.733 | 1.22  | 12.733 | 5.20  | 18.73 | 0.92  |
| 0.767                              | 0.61  | 6.767 | 1.22  | 12.767 | 5.20  | 18.77 | 0.92  |
| 0.800                              | 0.61  | 6.800 | 1.22  | 12.800 | 5.20  | 18.80 | 0.92  |
| 0.833                              | 0.61  | 6.833 | 1.22  | 12.833 | 3.67  | 18.83 | 0.92  |
| 0.867                              | 0.61  | 6.867 | 1.22  | 12.867 | 3.67  | 18.87 | 0.92  |
| 0.900                              | 0.61  | 6.900 | 1.22  | 12.900 | 3.67  | 18.90 | 0.92  |
| 0.933                              | 0.61  | 6.933 | 1.22  | 12.933 | 3.67  | 18.93 | 0.92  |
| 0.967                              | 0.61  | 6.967 | 1.22  | 12.967 | 3.67  | 18.97 | 0.92  |
| 1.000                              | 0.61  | 7.000 | 1.22  | 13.000 | 3.67  | 19.00 | 0.92  |
| 1.033                              | 0.61  | 7.033 | 1.22  | 13.033 | 3.06  | 19.03 | 1.22  |
| 1.067                              | 0.61  | 7.067 | 1.22  | 13.067 | 3.06  | 19.07 | 1.22  |
| 1.100                              | 0.61  | 7.100 | 1.22  | 13.100 | 3.06  | 19.10 | 1.22  |
| 1.133                              | 0.61  | 7.133 | 1.22  | 13.133 | 3.06  | 19.13 | 1.22  |
| 1.167                              | 0.61  | 7.167 | 1.22  | 13.167 | 3.06  | 19.17 | 1.22  |
| 1.200                              | 0.61  | 7.200 | 1.22  | 13.200 | 3.06  | 19.20 | 1.22  |
| 1.233                              | 0.61  | 7.233 | 1.22  | 13.233 | 3.06  | 19.23 | 0.92  |
| 1.267                              | 0.61  | 7.267 | 1.22  | 13.267 | 3.06  | 19.27 | 0.92  |
| 1.300                              | 0.61  | 7.300 | 1.22  | 13.300 | 3.06  | 19.30 | 0.92  |
| 1.333                              | 0.61  | 7.333 | 1.22  | 13.333 | 3.06  | 19.33 | 0.92  |
| 1.367                              | 0.61  | 7.367 | 1.22  | 13.367 | 3.06  | 19.37 | 0.92  |
| 1.400                              | 0.61  | 7.400 | 1.22  | 13.400 | 3.06  | 19.40 | 0.92  |
| 1.433                              | 0.61  | 7.433 | 1.22  | 13.433 | 3.06  | 19.43 | 1.22  |
| 1.467                              | 0.61  | 7.467 | 1.22  | 13.467 | 3.06  | 19.47 | 1.22  |
| 1.500                              | 0.61  | 7.500 | 1.22  | 13.500 | 3.06  | 19.50 | 1.22  |
| 1.533                              | 0.61  | 7.533 | 1.22  | 13.533 | 3.06  | 19.53 | 1.22  |
| 1.567                              | 0.61  | 7.567 | 1.22  | 13.567 | 3.06  | 19.57 | 1.22  |
| 1.600                              | 0.61  | 7.600 | 1.22  | 13.600 | 3.06  | 19.60 | 1.22  |
| 1.633                              | 0.61  | 7.633 | 1.22  | 13.633 | 3.06  | 19.63 | 0.92  |
| 1.667                              | 0.61  | 7.667 | 1.22  | 13.667 | 3.06  | 19.67 | 0.92  |
| 1.700                              | 0.61  | 7.700 | 1.22  | 13.700 | 3.06  | 19.70 | 0.92  |
| 1.733                              | 0.61  | 7.733 | 1.22  | 13.733 | 3.06  | 19.73 | 0.92  |
| 1.767                              | 0.61  | 7.767 | 1.22  | 13.767 | 3.06  | 19.77 | 0.92  |
| 1.800                              | 0.61  | 7.800 | 1.22  | 13.800 | 3.06  | 19.80 | 0.92  |
| 1.833                              | 0.61  | 7.833 | 1.22  | 13.833 | 3.06  | 19.83 | 1.22  |
| 1.867                              | 0.61  | 7.867 | 1.22  | 13.867 | 3.06  | 19.87 | 1.22  |
| 1.900                              | 0.61  | 7.900 | 1.22  | 13.900 | 3.06  | 19.90 | 1.22  |
| 1.933                              | 0.61  | 7.933 | 1.22  | 13.933 | 3.06  | 19.93 | 1.22  |
| 1.967                              | 0.61  | 7.967 | 1.22  | 13.967 | 3.06  | 19.97 | 1.22  |
| 2.000                              | 0.61  | 8.000 | 1.22  | 14.000 | 3.06  | 20.00 | 1.22  |
| 2.033                              | 0.61  | 8.033 | 1.84  | 14.033 | 1.84  | 20.03 | 0.92  |
| 2.067                              | 0.61  | 8.067 | 1.84  | 14.067 | 1.84  | 20.07 | 0.92  |
| 2.100                              | 0.61  | 8.100 | 1.84  | 14.100 | 1.84  | 20.10 | 0.92  |
| 2.133                              | 0.61  | 8.133 | 1.84  | 14.133 | 1.84  | 20.13 | 0.92  |
| 2.167                              | 0.61  | 8.167 | 1.84  | 14.167 | 1.84  | 20.17 | 0.92  |
| 2.200                              | 0.61  | 8.200 | 1.84  | 14.200 | 1.84  | 20.20 | 0.92  |
| 2.233                              | 0.61  | 8.233 | 1.84  | 14.233 | 1.84  | 20.23 | 0.92  |
| 2.267                              | 0.61  | 8.267 | 1.84  | 14.267 | 1.84  | 20.27 | 0.92  |
| 2.300                              | 0.61  | 8.300 | 1.84  | 14.300 | 1.84  | 20.30 | 0.92  |
| 2.333                              | 0.61  | 8.333 | 1.84  | 14.333 | 1.84  | 20.33 | 0.92  |
| 2.367                              | 0.61  | 8.367 | 1.84  | 14.367 | 1.84  | 20.37 | 0.92  |
| 2.400                              | 0.61  | 8.400 | 1.84  | 14.400 | 1.84  | 20.40 | 0.92  |
| 2.433                              | 0.61  | 8.433 | 1.84  | 14.433 | 1.84  | 20.43 | 0.61  |
| 2.467                              | 0.61  | 8.467 | 1.84  | 14.467 | 1.84  | 20.47 | 0.61  |
| 2.500                              | 0.61  | 8.500 | 1.84  | 14.500 | 1.84  | 20.50 | 0.61  |
| 2.533                              | 0.61  | 8.533 | 1.84  | 14.533 | 1.84  | 20.53 | 0.61  |
| 2.567                              | 0.61  | 8.567 | 1.84  | 14.567 | 1.84  | 20.57 | 0.61  |
| 2.600                              | 0.61  | 8.600 | 1.84  | 14.600 | 1.84  | 20.60 | 0.61  |
| 2.633                              | 0.61  | 8.633 | 1.84  | 14.633 | 1.84  | 20.63 | 0.92  |
| 2.667                              | 0.61  | 8.667 | 1.84  | 14.667 | 1.84  | 20.67 | 0.92  |
| 2.700                              | 0.61  | 8.700 | 1.84  | 14.700 | 1.84  | 20.70 | 0.92  |
| 2.733                              | 0.61  | 8.733 | 1.84  | 14.733 | 1.84  | 20.73 | 0.92  |

|       |      |        |      |        |      |         |      |
|-------|------|--------|------|--------|------|---------|------|
| 2.767 | 0.61 | 8.767  | 1.84 | 14.767 | 1.84 | 20.77   | 0.92 |
| 2.800 | 0.61 | 8.800  | 1.84 | 14.800 | 1.84 | 20.80   | 0.92 |
| 2.833 | 0.61 | 8.833  | 1.84 | 14.833 | 1.84 | 20.83   | 0.92 |
| 2.867 | 0.61 | 8.867  | 1.84 | 14.867 | 1.84 | 20.87   | 0.92 |
| 2.900 | 0.61 | 8.900  | 1.84 | 14.900 | 1.84 | 20.90   | 0.92 |
| 2.933 | 0.61 | 8.933  | 1.84 | 14.933 | 1.84 | 20.93   | 0.92 |
| 2.967 | 0.61 | 8.967  | 1.84 | 14.967 | 1.84 | 20.97   | 0.92 |
| 3.000 | 0.61 | 9.000  | 1.84 | 15.000 | 1.84 | 21.00   | 0.92 |
| 3.033 | 0.61 | 9.033  | 1.84 | 15.033 | 1.53 | 21.03   | 0.61 |
| 3.067 | 0.61 | 9.067  | 1.84 | 15.067 | 1.53 | 21.07   | 0.61 |
| 3.100 | 0.61 | 9.100  | 1.84 | 15.100 | 1.53 | 21.10   | 0.61 |
| 3.133 | 0.61 | 9.133  | 1.84 | 15.133 | 1.53 | 21.13   | 0.61 |
| 3.167 | 0.61 | 9.167  | 1.84 | 15.167 | 1.53 | 21.17   | 0.61 |
| 3.200 | 0.61 | 9.200  | 1.84 | 15.200 | 1.53 | 21.20   | 0.61 |
| 3.233 | 0.61 | 9.233  | 1.84 | 15.233 | 1.53 | 21.23   | 0.92 |
| 3.267 | 0.61 | 9.267  | 1.84 | 15.267 | 1.53 | 21.27   | 0.92 |
| 3.300 | 0.61 | 9.300  | 1.84 | 15.300 | 1.53 | 21.30   | 0.92 |
| 3.333 | 0.61 | 9.333  | 1.84 | 15.333 | 1.53 | 21.33   | 0.92 |
| 3.367 | 0.61 | 9.367  | 1.84 | 15.367 | 1.53 | 21.37   | 0.92 |
| 3.400 | 0.61 | 9.400  | 1.84 | 15.400 | 1.53 | 21.40   | 0.92 |
| 3.433 | 0.61 | 9.433  | 1.84 | 15.433 | 1.53 | 21.43   | 0.61 |
| 3.467 | 0.61 | 9.467  | 1.84 | 15.467 | 1.53 | 21.47   | 0.61 |
| 3.500 | 0.61 | 9.500  | 1.84 | 15.500 | 1.53 | 21.50   | 0.61 |
| 3.533 | 0.61 | 9.533  | 1.84 | 15.533 | 1.53 | 21.53   | 0.61 |
| 3.567 | 0.61 | 9.567  | 1.84 | 15.567 | 1.53 | 21.57   | 0.61 |
| 3.600 | 0.61 | 9.600  | 1.84 | 15.600 | 1.53 | 21.60   | 0.61 |
| 3.633 | 0.61 | 9.633  | 1.84 | 15.633 | 1.53 | 21.63   | 0.92 |
| 3.667 | 0.61 | 9.667  | 1.84 | 15.667 | 1.53 | 21.67   | 0.92 |
| 3.700 | 0.61 | 9.700  | 1.84 | 15.700 | 1.53 | 21.70   | 0.92 |
| 3.733 | 0.61 | 9.733  | 1.84 | 15.733 | 1.53 | 21.73   | 0.92 |
| 3.767 | 0.61 | 9.767  | 1.84 | 15.767 | 1.53 | 21.77   | 0.92 |
| 3.800 | 0.61 | 9.800  | 1.84 | 15.800 | 1.53 | 21.80   | 0.92 |
| 3.833 | 0.61 | 9.833  | 1.84 | 15.833 | 1.53 | 21.83   | 0.61 |
| 3.867 | 0.61 | 9.867  | 1.84 | 15.867 | 1.53 | 21.87   | 0.61 |
| 3.900 | 0.61 | 9.900  | 1.84 | 15.900 | 1.53 | 21.90   | 0.61 |
| 3.933 | 0.61 | 9.933  | 1.84 | 15.933 | 1.53 | 21.93   | 0.61 |
| 3.967 | 0.61 | 9.967  | 1.84 | 15.967 | 1.53 | 21.97   | 0.61 |
| 4.000 | 0.61 | 10.000 | 1.84 | 16.000 | 1.53 | 22.00   | 0.61 |
| 4.033 | 1.22 | 10.033 | 3.37 | 16.033 | 1.53 | 22.03   | 0.61 |
| 4.067 | 1.22 | 10.067 | 3.37 | 16.067 | 1.53 | 22.07   | 0.61 |
| 4.100 | 1.22 | 10.100 | 3.37 | 16.100 | 1.53 | 22.10   | 0.61 |
| 4.133 | 1.22 | 10.133 | 3.37 | 16.133 | 1.53 | 22.13   | 0.61 |
| 4.167 | 1.22 | 10.167 | 3.37 | 16.167 | 1.53 | 22.17   | 0.61 |
| 4.200 | 1.22 | 10.200 | 3.37 | 16.200 | 1.53 | 22.20   | 0.61 |
| 4.233 | 1.22 | 10.233 | 3.37 | 16.233 | 1.53 | 22.23   | 0.92 |
| 4.267 | 1.22 | 10.267 | 3.37 | 16.267 | 1.53 | 22.27   | 0.92 |
| 4.300 | 1.22 | 10.300 | 3.37 | 16.300 | 1.53 | 22.30   | 0.92 |
| 4.333 | 1.22 | 10.333 | 3.37 | 16.333 | 1.53 | 22.33   | 0.92 |
| 4.367 | 1.22 | 10.367 | 3.37 | 16.367 | 1.53 | 22.37</ |      |

0.0000 0.0000 | 0.0840 0.3591  
0.0050 0.0623 | 0.0920 0.4212  
0.0470 0.1654 | 0.5950 0.4851  
0.0680 0.2596 | 2.6870 0.6182

AREA QPEAK TPEAK R.V.  
(ha) (cms) (hrs) (mm)  
INFLOW : ID= 2 ( 0031) 5.080 0.317 12.10 26.58  
OUTFLOW: ID= 1 ( 0201) 5.080 0.015 15.50 22.38

PEAK FLOW REDUCTION [Qout/Qin](%)= 4.83  
TIME SHIFT OF PEAK FLOW (min)=204.00  
MAXIMUM STORAGE USED (ha.m.)= 0.0877

CALIB NASHYD ( 0502) | Area (ha)= 0.53 Curve Number (CN)= 71.0  
ID= 1 DT= 2.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.033 0.61 6.033 1.22 12.033 12.24 18.03 0.92  
0.067 0.61 6.067 1.22 12.067 12.24 18.07 0.92  
0.100 0.61 6.100 1.22 12.100 12.24 18.10 0.92  
0.133 0.61 6.133 1.22 12.133 12.24 18.13 0.92  
0.167 0.61 6.167 1.22 12.167 12.24 18.17 0.92  
0.200 0.61 6.200 1.22 12.200 12.23 18.20 0.92  
0.233 0.61 6.233 1.22 12.233 7.65 18.23 0.92  
0.267 0.61 6.267 1.22 12.267 7.65 18.27 0.92  
0.300 0.61 6.300 1.22 12.300 7.65 18.30 0.92  
0.333 0.61 6.333 1.22 12.333 7.65 18.33 0.92  
0.367 0.61 6.367 1.22 12.367 7.65 18.37 0.92  
0.400 0.61 6.400 1.22 12.400 7.65 18.40 0.92  
0.433 0.61 6.433 1.22 12.433 5.51 18.43 1.22  
0.467 0.61 6.467 1.22 12.467 5.51 18.47 1.22  
0.500 0.61 6.500 1.22 12.500 5.51 18.50 1.22  
0.533 0.61 6.533 1.22 12.533 5.51 18.53 1.22  
0.567 0.61 6.567 1.22 12.567 5.51 18.57 1.22  
0.600 0.61 6.600 1.22 12.600 5.51 18.60 1.22  
0.633 0.61 6.633 1.22 12.633 5.20 18.63 0.92  
0.667 0.61 6.667 1.22 12.667 5.20 18.67 0.92  
0.700 0.61 6.700 1.22 12.700 5.20 18.70 0.92  
0.733 0.61 6.733 1.22 12.733 5.20 18.73 0.92  
0.767 0.61 6.767 1.22 12.767 5.20 18.77 0.92  
0.800 0.61 6.800 1.22 12.800 5.20 18.80 0.92  
0.833 0.61 6.833 1.22 12.833 3.67 18.83 0.92  
0.867 0.61 6.867 1.22 12.867 3.67 18.87 0.92  
0.900 0.61 6.900 1.22 12.900 3.67 18.90 0.92  
0.933 0.61 6.933 1.22 12.933 3.67 18.93 0.92  
0.967 0.61 6.967 1.22 12.967 3.67 18.97 0.92  
1.000 0.61 7.000 1.22 13.000 3.67 19.00 0.92  
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1.167 0.61 7.167 1.22 13.167 3.06 19.17 1.22  
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5.967 1.22 11.967 68.85 17.967 0.92 23.97 0.61  
6.000 1.22 12.000 68.77 18.000 0.92 24.00 0.61

Unit Hyd Qpeak (cms)= 0.092

PEAK FLOW (cms)= 0.021 (i)  
TIME TO PEAK (hrs)= 12.133  
RUNOFF VOLUME (mm)= 18.031  
TOTAL RAINFALL (mm)= 61.200  
RUNOFF COEFFICIENT = 0.295

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB NASHYD ( 0501) | Area (ha)= 8.72 Curve Number (CN)= 71.0  
ID= 1 DT= 2.0 min | Ia (mm)= 8.00 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.42

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.033 0.61 6.033 1.22 12.033 12.24 18.03 0.92  
0.067 0.61 6.067 1.22 12.067 12.24 18.07 0.92  
0.100 0.61 6.100 1.22 12.100 12.24 18.10 0.92  
0.133 0.61 6.133 1.22 12.133 12.24 18.13 0.92  
0.167 0.61 6.167 1.22 12.167 12.24 18.17 0.92  
0.200 0.61 6.200 1.22 12.200 12.23 18.20 0.92  
0.233 0.61 6.233 1.22 12.233 7.65 18.23 0.92  
0.267 0.61 6.267 1.22 12.267 7.65 18.27 0.92  
0.300 0.61 6.300 1.22 12.300 7.65 18.30 0.92  
0.333 0.61 6.333 1.22 12.333 7.65 18.33 0.92  
0.367 0.61 6.367 1.22 12.367 7.65 18.37 0.92  
0.400 0.61 6.400 1.22 12.400 7.65 18.40 0.92  
0.433 0.61 6.433 1.22 12.433 5.51 18.43 1.22  
0.467 0.61 6.467 1.22 12.467 5.51 18.47 1.22  
0.500 0.61 6.500 1.22 12.500 5.51 18.50 1.22  
0.533 0.61 6.533 1.22 12.533 5.51 18.53 1.22  
0.567 0.61 6.567 1.22 12.567 5.51 18.57 1.22  
0.600 0.61 6.600 1.22 12.600 5.51 18.60 1.22  
0.633 0.61 6.633 1.22 12.633 5.20 18.63 0.92  
0.667 0.61 6.667 1.22 12.667 5.20 18.67 0.92  
0.700 0.61 6.700 1.22 12.700 5.20 18.70 0.92  
0.733 0.61 6.733 1.22 12.733 5.20 18.73 0.92  
0.767 0.61 6.767 1.22 12.767 5.20 18.77 0.92

0.800 0.61 6.800 1.22 12.800 5.20 18.80 0.92  
0.833 0.61 6.833 1.22 12.833 3.67 18.83 0.92  
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4.600 1.22 10.600 3.37 16.600 1.53 22.60 0.61  
4.633 1.22 10.633 3.37 16.633 1.53 22.63 0.92  
4.667 1.22 10.667 3.37 16.667 1.53 22.67 0.92  
4.700 1.22 10.700 3.37 16.700 1.53 22.70 0.92  
4.733 1.22 10.733 3.37 16.733 1.53 22.73 0.92  
4.767 1.22 10.767 3.37 16.767 1.53 22.77 0.92  
4.800 1.22 10.800 3.37 16.800 1.53 22.80 0.92  
4.833 1.22 10.833 3.37 16.833 0.92 22.83 0.61  
4.867 1.22 10.867 3.37 16.867 0.92 22.87 0.61  
4.900 1.22 10.900 3.37 16.900 0.92 22.90 0.61  
4.933 1.22 10.933 3.37 16.933 0.92 22.93 0.61  
4.967 1.22 10.967 3.37 16.967 0.92 22.97 0.61  
5.000 1.22 11.000 3.37 17.000 0.92 23.00 0.61

5.033 1.22 11.033 4.59 17.033 0.92 23.03 0.61  
5.067 1.22 11.067 4.59 17.067 0.92 23.07 0.61  
5.100 1.22 11.100 4.59 17.100 0.92 23.10 0.61  
5.133 1.22 11.133 4.59 17.133 0.92 23.13 0.61  
5.167 1.22 11.167 4.59 17.167 0.92 23.17 0.61  
5.200 1.22 11.200 4.59 17.200 0.92 23.20 0.61  
5.233 1.22 11.233 6.73 17.233 1.22 23.23 0.61  
5.267 1.22 11.267 6.73 17.267 1.22 23.27 0.61  
5.300 1.22 11.300 6.73 17.300 1.22 23.30 0.61  
5.333 1.22 11.333 6.73 17.333 1.22 23.33 0.61  
5.367 1.22 11.367 6.73 17.367 1.22 23.37 0.61  
5.400 1.22 11.400 6.74 17.400 1.22 23.40 0.61  
5.433 1.22 11.433 16.22 17.433 0.92 23.43 0.92  
5.467 1.22 11.467 16.22 17.467 0.92 23.47 0.92  
5.500 1.22 11.500 16.22 17.500 0.92 23.50 0.92  
5.533 1.22 11.533 16.22 17.533 0.92 23.53 0.92  
5.567 1.22 11.567 16.22 17.567 0.92 23.57 0.92  
5.600 1.22 11.600 16.24 17.600 0.92 23.60 0.92  
5.633 1.22 11.633 33.66 17.633 1.22 23.63 0.61  
5.667 1.22 11.667 33.66 17.667 1.22 23.67 0.61  
5.700 1.22 11.700 33.66 17.700 1.22 23.70 0.61  
5.733 1.22 11.733 33.66 17.733 1.22 23.73 0.61  
5.767 1.22 11.767 33.66 17.767 1.22 23.77 0.61  
5.800 1.22 11.800 33.71 17.800 1.22 23.80 0.61  
5.833 1.22 11.833 68.85 17.833 0.92 23.83 0.61  
5.867 1.22 11.867 68.85 17.867 0.92 23.87 0.61  
5.900 1.22 11.900 68.85 17.900 0.92 23.90 0.61  
5.933 1.22 11.933 68.85 17.933 0.92 23.93 0.61  
5.967 1.22 11.967 68.85 17.967 0.92 23.97 0.61  
6.000 1.22 12.000 68.77 18.000 0.92 24.00 0.61

Unit Hyd Qpeak (cms)= 0.793

PEAK FLOW (cms)= 0.230 (i)  
TIME TO PEAK (hrs)= 12.333  
RUNOFF VOLUME (mm)= 18.033  
TOTAL RAINFALL (mm)= 61.200  
RUNOFF COEFFICIENT = 0.295

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0032 )  
1 + 2 = 3  
AREA (ha) QPEAK (cms) TPEAK (hrs) R.V. (mm)  
ID1= 1 ( 0501 ): 8.72 0.230 12.33 18.03  
+ ID2= 2 ( 0502 ): 0.53 0.021 12.13 18.03  
===== ID = 3 ( 0032 ): 9.25 0.245 12.30 18.03

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD ( 0033 )  
1 + 2 = 3  
AREA (ha) QPEAK (cms) TPEAK (hrs) R.V. (mm)  
ID1= 1 ( 0201 ): 5.08 0.015 15.50 22.38  
+ ID2= 2 ( 0032 ): 9.25 0.245 12.30 18.03  
===== ID = 3 ( 0033 ): 14.33 0.250 12.33 19.57

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB  
NASHDY ( 0401 )  
ID= 1 DT= 2.0 min  
Area (ha)= 5.97  
Ia (mm)= 6.90  
U.H. Tp(hrs)= 0.16  
Curve Number (CN)= 81.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

----- TRANSFORMED HYETOGRAPH -----  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.833 0.61 6.833 1.22 12.833 5.20 18.83 0.92  
0.867 0.61 6.867 1.22 12.867 3.67 18.87 0.92  
0.900 0.61 6.900 1.22 12.900 3.67 18.90 0.92  
0.933 0.61 6.933 1.22 12.933 3.67 18.93 0.92  
0.967 0.61 6.967 1.22 12.967 3.67 18.97 0.92  
1.000 0.61 7.000 1.22 13.000 3.67 19.00 0.92  
1.033 0.61 7.033 1.22 13.033 3.06 19.03 1.22  
1.067 0.61 7.067 1.22 13.067 3.06 19.07 1.22  
1.100 0.61 7.100 1.22 13.100 3.06 19.10 1.22  
1.133 0.61 7.133 1.22 13.133 3.06 19.13 1.22  
1.167 0.61 7.167 1.22 13.167 3.06 19.17 1.22  
1.200 0.61 7.200 1.22 13.200 3.06 19.20 1.22  
1.233 0.61 7.233 1.22 13.233 3.06 19.23 0.92  
1.267 0.61 7.267 1.22 13.267 3.06 19.27 0.92  
1.300 0.61 7.300 1.22 13.300 3.06 19.30 0.92  
1.333 0.61 7.333 1.22 13.333 3.06 19.33 0.92  
1.367 0.61 7.367 1.22 13.367 3.06 19.37 0.92  
1.400 0.61 7.400 1.22 13.400 3.06 19.40 0.92  
1.433 0.61 7.433 1.22 13.433 3.06 19.43 1.22  
1.467 0.61 7.467 1.22 13.467 3.06 19.47 1.22  
1.500 0.61 7.500 1.22 13.500 3.06 19.50 1.22  
1.533 0.61 7.533 1.22 13.533 3.06 19.53 1.22  
1.567 0.61 7.567 1.22 13.567 3.06 19.57 1.22  
1.600 0.61 7.600 1.22 13.600 3.06 19.60 1.22  
1.633 0.61 7.633 1.22 13.633 3.06 19.63 0.92  
1.667 0.61 7.667 1.22 13.667 3.06 19.67 0.92  
1.700 0.61 7.700 1.22 13.700 3.06 19.70 0.92  
1.733 0.61 7.733 1.22 13.733 3.06 19.73 0.92  
1.767 0.61 7.767 1.22 13.767 3.06 19.77 0.92  
1.800 0.61 7.800 1.22 13.800 3.06 19.80 0.92  
1.833 0.61 7.833 1.22 13.833 3.06 19.83 1.22  
1.867 0.61 7.867 1.22 13.867 3.06 19.87 1.22  
1.900 0.61 7.900 1.22 13.900 3.06 19.90 1.22  
1.933 0.61 7.933 1.22 13.933 3.06 19.93 1.22  
1.967 0.61 7.967 1.22 13.967 3.06 19.97 1.22  
2.000 0.61 8.000 1.22 14.000 3.06 20.00 1.22  
2.033 0.61 8.033 1.84 14.033 1.84 20.03 0.92  
2.067 0.61 8.067 1.84 14.067 1.84 20.07 0.92  
2.100 0.61 8.100 1.84 14.100 1.84 20.10 0.92  
2.133 0.61 8.133 1.84 14.133 1.84 20.13 0.92  
2.167 0.61 8.167 1.84 14.167 1.84 20.17 0.92  
2.200 0.61 8.200 1.84 14.200 1.84 20.20 0.92  
2.233 0.61 8.233 1.84 14.233 1.84 20.23 0.92  
2.267 0.61 8.267 1.84 14.267 1.84 20.27 0.92  
2.300 0.61 8.300 1.84 14.300 1.84 20.30 0.92  
2.333 0.61 8.333 1.84 14.333 1.84 20.33 0.92  
2.367 0.61 8.367 1.84 14.367 1.84 20.37 0.92  
2.400 0.61 8.400 1.84 14.400 1.84 20.40 0.92  
2.433 0.61 8.433 1.84 14.433 1.84 20.43 0.61  
2.467 0.61 8.467 1.84 14.467 1.84 20.47 0.61  
2.500 0.61 8.500 1.84 14.500 1.84 20.50 0.61  
2.533 0.61 8.533 1.84 14.533 1.84 20.53 0.61  
2.567 0.61 8.567 1.84 14.567 1.84 20.57 0.61  
2.600 0.61 8.600 1.84 14.600 1.84 20.60 0.61  
2.633 0.61 8.633 1.84 14.633 1.84 20.63 0.92  
2.667 0.61 8.667 1.84 14.667 1.84 20.67 0.92  
2.700 0.61 8.700 1.84 14.700 1.84 20.70 0.92  
2.733 0.61 8.733 1.84 14.733 1.84 20.73 0.92  
2.767 0.61 8.767 1.84 14.767 1.84 20.77 0.92  
2.800 0.61 8.800 1.84 14.800 1.84 20.80 0.92  
2.833 0.61 8.833 1.84 14.833 1.84 20.83 0.92  
2.867 0.61 8.867 1.84 14.867 1.84 20.87 0.92  
2.900 0.61 8.900 1.84 14.900 1.84 20.90 0.92  
2.933 0.61 8.933 1.84 14.933 1.84 20.93 0.92  
2.967 0.61 8.967 1.84 14.967 1.84 20.97 0.92  
3.000 0.61 9.000 1.84 15.000 1.84 21.00 0.92  
3.033 0.61 9.033 1.84 15.033 1.53 21.03 0.61  
3.067 0.61 9.067 1.84 15.067 1.53 21.07 0.61  
3.100 0.61 9.100 1.84 15.100 1.53 21.10 0.61  
3.133 0.61 9.133 1.84 15.133 1.53 21.13 0.61  
3.167 0.61 9.167 1.84 15.167 1.53 21.17 0.61  
3.200 0.61 9.200 1.84 15.200 1.53 21.20 0.61  
3.233 0.61 9.233 1.84 15.233 1.53 21.23 0.92  
3.267 0.61 9.267 1.84 15.267 1.53 21.27 0.92  
3.300 0.61 9.300 1.84 15.300 1.53 21.30 0.92  
3.333 0.61 9.333 1.84 15.333 1.53 21.33 0.92  
3.367 0.61 9.367 1.84 15.367 1.53 21.37 0.92  
3.400 0.61 9.400 1.84 15.400 1.53 21.40 0.92  
3.433 0.61 9.433 1.84 15.433 1.53 21.43 0.61  
3.467 0.61 9.467 1.84 15.467 1.53 21.47 0.61  
3.500 0.61 9.500 1.84 15.500 1.53 21.50 0.61  
3.533 0.61 9.533 1.84 15.533 1.53 21.53 0.61  
3.567 0.61 9.567 1.84 15.567 1.53 21.57 0.61  
3.600 0.61 9.600 1.84 15.600 1.53 21.60 0.61  
3.633 0.61 9.633 1.84 15.633 1.53 21.63 0.92  
3.667 0.61 9.667 1.84 15.667 1.53 21.67 0.92  
3.700 0.61 9.700 1.84 15.700 1.53 21.70 0.92  
3.733 0.61 9.733 1.84 15.733 1.53 21.73 0.92  
3.767 0.61 9.767 1.84 15.767 1.53 21.77 0.92  
3.800

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 1.667 | 0.61 | 7.667  | 1.22  | 13.667 | 3.06 | 19.67 | 0.92 |
| 1.700 | 0.61 | 7.700  | 1.22  | 13.700 | 3.06 | 19.70 | 0.92 |
| 1.733 | 0.61 | 7.733  | 1.22  | 13.733 | 3.06 | 19.73 | 0.92 |
| 1.767 | 0.61 | 7.767  | 1.22  | 13.767 | 3.06 | 19.77 | 0.92 |
| 1.800 | 0.61 | 7.800  | 1.22  | 13.800 | 3.06 | 19.80 | 0.92 |
| 1.833 | 0.61 | 7.833  | 1.22  | 13.833 | 3.06 | 19.83 | 1.22 |
| 1.867 | 0.61 | 7.867  | 1.22  | 13.867 | 3.06 | 19.87 | 1.22 |
| 1.900 | 0.61 | 7.900  | 1.22  | 13.900 | 3.06 | 19.90 | 1.22 |
| 1.933 | 0.61 | 7.933  | 1.22  | 13.933 | 3.06 | 19.93 | 1.22 |
| 1.967 | 0.61 | 7.967  | 1.22  | 13.967 | 3.06 | 19.97 | 1.22 |
| 2.000 | 0.61 | 8.000  | 1.22  | 14.000 | 3.06 | 20.00 | 1.22 |
| 2.033 | 0.61 | 8.033  | 1.84  | 14.033 | 1.84 | 20.03 | 0.92 |
| 2.067 | 0.61 | 8.067  | 1.84  | 14.067 | 1.84 | 20.07 | 0.92 |
| 2.100 | 0.61 | 8.100  | 1.84  | 14.100 | 1.84 | 20.10 | 0.92 |
| 2.133 | 0.61 | 8.133  | 1.84  | 14.133 | 1.84 | 20.13 | 0.92 |
| 2.167 | 0.61 | 8.167  | 1.84  | 14.167 | 1.84 | 20.17 | 0.92 |
| 2.200 | 0.61 | 8.200  | 1.84  | 14.200 | 1.84 | 20.20 | 0.92 |
| 2.233 | 0.61 | 8.233  | 1.84  | 14.233 | 1.84 | 20.23 | 0.92 |
| 2.267 | 0.61 | 8.267  | 1.84  | 14.267 | 1.84 | 20.27 | 0.92 |
| 2.300 | 0.61 | 8.300  | 1.84  | 14.300 | 1.84 | 20.30 | 0.92 |
| 2.333 | 0.61 | 8.333  | 1.84  | 14.333 | 1.84 | 20.33 | 0.92 |
| 2.367 | 0.61 | 8.367  | 1.84  | 14.367 | 1.84 | 20.37 | 0.92 |
| 2.400 | 0.61 | 8.400  | 1.84  | 14.400 | 1.84 | 20.40 | 0.92 |
| 2.433 | 0.61 | 8.433  | 1.84  | 14.433 | 1.84 | 20.43 | 0.61 |
| 2.467 | 0.61 | 8.467  | 1.84  | 14.467 | 1.84 | 20.47 | 0.61 |
| 2.500 | 0.61 | 8.500  | 1.84  | 14.500 | 1.84 | 20.50 | 0.61 |
| 2.533 | 0.61 | 8.533  | 1.84  | 14.533 | 1.84 | 20.53 | 0.61 |
| 2.567 | 0.61 | 8.567  | 1.84  | 14.567 | 1.84 | 20.57 | 0.61 |
| 2.600 | 0.61 | 8.600  | 1.84  | 14.600 | 1.84 | 20.60 | 0.61 |
| 2.633 | 0.61 | 8.633  | 1.84  | 14.633 | 1.84 | 20.63 | 0.92 |
| 2.667 | 0.61 | 8.667  | 1.84  | 14.667 | 1.84 | 20.67 | 0.92 |
| 2.700 | 0.61 | 8.700  | 1.84  | 14.700 | 1.84 | 20.70 | 0.92 |
| 2.733 | 0.61 | 8.733  | 1.84  | 14.733 | 1.84 | 20.73 | 0.92 |
| 2.767 | 0.61 | 8.767  | 1.84  | 14.767 | 1.84 | 20.77 | 0.92 |
| 2.800 | 0.61 | 8.800  | 1.84  | 14.800 | 1.84 | 20.80 | 0.92 |
| 2.833 | 0.61 | 8.833  | 1.84  | 14.833 | 1.84 | 20.83 | 0.92 |
| 2.867 | 0.61 | 8.867  | 1.84  | 14.867 | 1.84 | 20.87 | 0.92 |
| 2.900 | 0.61 | 8.900  | 1.84  | 14.900 | 1.84 | 20.90 | 0.92 |
| 2.933 | 0.61 | 8.933  | 1.84  | 14.933 | 1.84 | 20.93 | 0.92 |
| 2.967 | 0.61 | 8.967  | 1.84  | 14.967 | 1.84 | 20.97 | 0.92 |
| 3.000 | 0.61 | 9.000  | 1.84  | 15.000 | 1.84 | 21.00 | 0.92 |
| 3.033 | 0.61 | 9.033  | 1.84  | 15.033 | 1.53 | 21.03 | 0.61 |
| 3.067 | 0.61 | 9.067  | 1.84  | 15.067 | 1.53 | 21.07 | 0.61 |
| 3.100 | 0.61 | 9.100  | 1.84  | 15.100 | 1.53 | 21.10 | 0.61 |
| 3.133 | 0.61 | 9.133  | 1.84  | 15.133 | 1.53 | 21.13 | 0.61 |
| 3.167 | 0.61 | 9.167  | 1.84  | 15.167 | 1.53 | 21.17 | 0.61 |
| 3.200 | 0.61 | 9.200  | 1.84  | 15.200 | 1.53 | 21.20 | 0.61 |
| 3.233 | 0.61 | 9.233  | 1.84  | 15.233 | 1.53 | 21.23 | 0.92 |
| 3.267 | 0.61 | 9.267  | 1.84  | 15.267 | 1.53 | 21.27 | 0.92 |
| 3.300 | 0.61 | 9.300  | 1.84  | 15.300 | 1.53 | 21.30 | 0.92 |
| 3.333 | 0.61 | 9.333  | 1.84  | 15.333 | 1.53 | 21.33 | 0.92 |
| 3.367 | 0.61 | 9.367  | 1.84  | 15.367 | 1.53 | 21.37 | 0.92 |
| 3.400 | 0.61 | 9.400  | 1.84  | 15.400 | 1.53 | 21.40 | 0.92 |
| 3.433 | 0.61 | 9.433  | 1.84  | 15.433 | 1.53 | 21.43 | 0.61 |
| 3.467 | 0.61 | 9.467  | 1.84  | 15.467 | 1.53 | 21.47 | 0.61 |
| 3.500 | 0.61 | 9.500  | 1.84  | 15.500 | 1.53 | 21.50 | 0.61 |
| 3.533 | 0.61 | 9.533  | 1.84  | 15.533 | 1.53 | 21.53 | 0.61 |
| 3.567 | 0.61 | 9.567  | 1.84  | 15.567 | 1.53 | 21.57 | 0.61 |
| 3.600 | 0.61 | 9.600  | 1.84  | 15.600 | 1.53 | 21.60 | 0.61 |
| 3.633 | 0.61 | 9.633  | 1.84  | 15.633 | 1.53 | 21.63 | 0.92 |
| 3.667 | 0.61 | 9.667  | 1.84  | 15.667 | 1.53 | 21.67 | 0.92 |
| 3.700 | 0.61 | 9.700  | 1.84  | 15.700 | 1.53 | 21.70 | 0.92 |
| 3.733 | 0.61 | 9.733  | 1.84  | 15.733 | 1.53 | 21.73 | 0.92 |
| 3.767 | 0.61 | 9.767  | 1.84  | 15.767 | 1.53 | 21.77 | 0.92 |
| 3.800 | 0.61 | 9.800  | 1.84  | 15.800 | 1.53 | 21.80 | 0.92 |
| 3.833 | 0.61 | 9.833  | 1.84  | 15.833 | 1.53 | 21.83 | 0.61 |
| 3.867 | 0.61 | 9.867  | 1.84  | 15.867 | 1.53 | 21.87 | 0.61 |
| 3.900 | 0.61 | 9.900  | 1.84  | 15.900 | 1.53 | 21.90 | 0.61 |
| 3.933 | 0.61 | 9.933  | 1.84  | 15.933 | 1.53 | 21.93 | 0.61 |
| 3.967 | 0.61 | 9.967  | 1.84  | 15.967 | 1.53 | 21.97 | 0.61 |
| 4.000 | 0.61 | 10.000 | 1.84  | 16.000 | 1.53 | 22.00 | 0.61 |
| 4.033 | 1.22 | 10.033 | 3.37  | 16.033 | 1.53 | 22.03 | 0.61 |
| 4.067 | 1.22 | 10.067 | 3.37  | 16.067 | 1.53 | 22.07 | 0.61 |
| 4.100 | 1.22 | 10.100 | 3.37  | 16.100 | 1.53 | 22.10 | 0.61 |
| 4.133 | 1.22 | 10.133 | 3.37  | 16.133 | 1.53 | 22.13 | 0.61 |
| 4.167 | 1.22 | 10.167 | 3.37  | 16.167 | 1.53 | 22.17 | 0.61 |
| 4.200 | 1.22 | 10.200 | 3.37  | 16.200 | 1.53 | 22.20 | 0.61 |
| 4.233 | 1.22 | 10.233 | 3.37  | 16.233 | 1.53 | 22.23 | 0.92 |
| 4.267 | 1.22 | 10.267 | 3.37  | 16.267 | 1.53 | 22.27 | 0.92 |
| 4.300 | 1.22 | 10.300 | 3.37  | 16.300 | 1.53 | 22.30 | 0.92 |
| 4.333 | 1.22 | 10.333 | 3.37  | 16.333 | 1.53 | 22.33 | 0.92 |
| 4.367 | 1.22 | 10.367 | 3.37  | 16.367 | 1.53 | 22.37 | 0.92 |
| 4.400 | 1.22 | 10.400 | 3.37  | 16.400 | 1.53 | 22.40 | 0.92 |
| 4.433 | 1.22 | 10.433 | 3.37  | 16.433 | 1.53 | 22.43 | 0.61 |
| 4.467 | 1.22 | 10.467 | 3.37  | 16.467 | 1.53 | 22.47 | 0.61 |
| 4.500 | 1.22 | 10.500 | 3.37  | 16.500 | 1.53 | 22.50 | 0.61 |
| 4.533 | 1.22 | 10.533 | 3.37  | 16.533 | 1.53 | 22.53 | 0.61 |
| 4.567 | 1.22 | 10.567 | 3.37  | 16.567 | 1.53 | 22.57 | 0.61 |
| 4.600 | 1.22 | 10.600 | 3.37  | 16.600 | 1.53 | 22.60 | 0.61 |
| 4.633 | 1.22 | 10.633 | 3.37  | 16.633 | 1.53 | 22.63 | 0.92 |
| 4.667 | 1.22 | 10.667 | 3.37  | 16.667 | 1.53 | 22.67 | 0.92 |
| 4.700 | 1.22 | 10.700 | 3.37  | 16.700 | 1.53 | 22.70 | 0.92 |
| 4.733 | 1.22 | 10.733 | 3.37  | 16.733 | 1.53 | 22.73 | 0.92 |
| 4.767 | 1.22 | 10.767 | 3.37  | 16.767 | 1.53 | 22.77 | 0.92 |
| 4.800 | 1.22 | 10.800 | 3.37  | 16.800 | 1.53 | 22.80 | 0.92 |
| 4.833 | 1.22 | 10.833 | 3.37  | 16.833 | 0.92 | 22.83 | 0.61 |
| 4.867 | 1.22 | 10.867 | 3.37  | 16.867 | 0.92 | 22.87 | 0.61 |
| 4.900 | 1.22 | 10.900 | 3.37  | 16.900 | 0.92 | 22.90 | 0.61 |
| 4.933 | 1.22 | 10.933 | 3.37  | 16.933 | 0.92 | 22.93 | 0.61 |
| 4.967 | 1.22 | 10.967 | 3.37  | 16.967 | 0.92 | 22.97 | 0.61 |
| 5.000 | 1.22 | 11.000 | 3.37  | 17.000 | 0.92 | 23.00 | 0.61 |
| 5.033 | 1.22 | 11.033 | 4.59  | 17.033 | 0.92 | 23.03 | 0.61 |
| 5.067 | 1.22 | 11.067 | 4.59  | 17.067 | 0.92 | 23.07 | 0.61 |
| 5.100 | 1.22 | 11.100 | 4.59  | 17.100 | 0.92 | 23.10 | 0.61 |
| 5.133 | 1.22 | 11.133 | 4.59  | 17.133 | 0.92 | 23.13 | 0.61 |
| 5.167 | 1.22 | 11.167 | 4.59  | 17.167 | 0.92 | 23.17 | 0.61 |
| 5.200 | 1.22 | 11.200 | 4.59  | 17.200 | 0.92 | 23.20 | 0.61 |
| 5.233 | 1.22 | 11.233 | 6.73  | 17.233 | 1.22 | 23.23 | 0.61 |
| 5.267 | 1.22 | 11.267 | 6.73  | 17.267 | 1.22 | 23.27 | 0.61 |
| 5.300 | 1.22 | 11.300 | 6.73  | 17.300 | 1.22 | 23.30 | 0.61 |
| 5.333 | 1.22 | 11.333 | 6.73  | 17.333 | 1.22 | 23.33 | 0.61 |
| 5.367 | 1.22 | 11.367 | 6.73  | 17.367 | 1.22 | 23.37 | 0.61 |
| 5.400 | 1.22 | 11.400 | 6.74  | 17.400 | 1.22 | 23.40 | 0.61 |
| 5.433 | 1.22 | 11.433 | 16.22 | 17.433 | 0.92 | 23.43 | 0.92 |
| 5.467 | 1.22 | 11.467 | 16.22 | 17.467 | 0.92 | 23.47 | 0.92 |
| 5.500 | 1.22 | 11.500 | 16.22 | 17.500 | 0.92 | 23.50 | 0.92 |
| 5.533 | 1.22 | 11.533 | 16.22 | 17.533 | 0.92 | 23.53 | 0.92 |
| 5.567 | 1.22 | 11.567 | 16.22 | 17.567 | 0.92 | 23.57 | 0.92 |
| 5.600 | 1.22 | 11.600 | 16.24 | 17.600 | 0.92 | 23.60 | 0.92 |
| 5.633 | 1.22 | 11.633 | 33.66 | 17.633 | 1.22 | 23.63 | 0.61 |
| 5.667 | 1.22 | 11.667 | 33.66 | 17.667 | 1.22 | 23.67 | 0.61 |
| 5.700 | 1.22 | 11.700 | 33.66 | 17.700 | 1.22 | 23.70 | 0.61 |
| 5.733 | 1.22 | 11.733 | 33.66 | 17.733 | 1.22 | 23.73 | 0.61 |
| 5.767 | 1.22 | 11.767 | 33.66 | 17.767 | 1.22 | 23.77 | 0.61 |
| 5.800 | 1.22 | 11.800 | 33.71 | 17.800 | 1.22 | 23.80 | 0.61 |
| 5.833 | 1.22 | 11.833 | 68.85 | 17.833 | 0.92 | 23.83 | 0.61 |
| 5.867 | 1.22 | 11.867 | 68.85 | 17.867 | 0.92 | 23.87 | 0.61 |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 5.900 | 1.22 | 11.900 | 68.85 | 17.900 | 0.92 | 23.90 | 0.61 |
| 5.933 | 1.22 | 11.933 | 68.85 | 17.933 | 0.92 | 23.93 | 0.61 |
| 5.967 | 1.22 | 11.967 | 68.85 | 17.967 | 0.92 | 23.97 | 0.61 |
| 6.000 | 1.22 | 12.000 | 68.77 | 18.000 | 0.92 | 24.00 | 0.61 |

Unit Hyd Qpeak (cms)= 1.425

PEAK FLOW (cms)= 0.428 (i)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 25.888  
TOTAL RAINFALL (mm)= 61.200  
RUNOFF COEFFICIENT = 0.423

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |  |               |      |                      |      |
|-------------------|--|---------------|------|----------------------|------|
| CALIB             |  | Area (ha)=    | 7.58 | Curve Number (CN)=   | 81.0 |
| NASHYD ( 0402)    |  | Ia (mm)=      | 6.90 | # of Linear Res.(N)= | 3.00 |
| ID= 1 DT= 2.0 min |  | U.H. Tp(hrs)= | 0.16 |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |               |             |               |             |               |             |               |
|------------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                        | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                              | 0.61          | 6.033       | 1.22          | 12.033      | 12.24         | 18.03       | 0.92          |
| 0.067                              | 0.61          | 6.067       | 1.22          | 12.067      | 12.24         | 18.07       | 0.92          |
| 0.100                              | 0.61          | 6.100       | 1.22          | 12.100      | 12.24         | 18.10       | 0.92          |
| 0.133                              | 0.61          | 6.133       | 1.22          | 12.133      | 12.24         | 18.13       | 0.92          |
| 0.167                              | 0.61          | 6.167       | 1.22          | 12.167      | 12.24         | 18.17       | 0.92          |
| 0.200                              | 0.61          | 6.200       | 1.22          | 12.200      | 12.23         | 18.20       | 0.92          |
| 0.233                              | 0.61          | 6.233       | 1.22          | 12.233      | 7.65          | 18.23       | 0.92          |
| 0.267                              | 0.61          | 6.267       | 1.22          | 12.267      | 7.65          | 18.27       | 0.92          |
| 0.300                              | 0.61          | 6.300       | 1.22          | 12.300      | 7.65          | 18.30       | 0.92          |
| 0.333                              | 0.61          | 6.333       | 1.22          | 12.333      | 7.65          | 18.33       | 0.92          |
| 0.367                              | 0.61          | 6.367       | 1.22          | 12.367      | 7.65          | 18.37       | 0.92          |
| 0.400                              | 0.61          | 6.400       | 1.22          | 12.400      | 7.65          | 18.40       | 0.92          |
| 0.433                              | 0.61          | 6.433       | 1.22          | 12.433      | 5.51          | 18.43       | 1.22          |
| 0.467                              | 0.61          | 6.467       | 1.22          | 12.467      | 5.51          | 18.47       | 1.22          |
| 0.500                              | 0.61          | 6.500       | 1.22          | 12.500      | 5.51          | 18.50       | 1.22          |
| 0.533                              | 0.61          | 6.533       | 1.22          | 12.533      | 5.51          | 18.53       | 1.22          |
| 0.567                              | 0.61          | 6.567       | 1.22          | 12.567      | 5.51          | 18.57       | 1.22          |
| 0.600                              | 0.61          | 6.600       | 1.22          | 12.600      | 5.51          | 18.60       | 1.22          |
| 0.633                              | 0.61          | 6.633       | 1.22          | 12.633      | 5.20          | 18.63       | 0.92          |
| 0.667                              | 0.61          | 6.667       | 1.22          | 12.667      | 5.20          | 18.67       | 0.92          |
| 0.700                              | 0.61          | 6.700       | 1.22          | 12.700      | 5.20          | 18.70       | 0.92          |
| 0.733                              | 0.61          | 6.733       | 1.22          | 12.733      | 5.20          | 18.73       | 0.92          |
| 0.767                              | 0.61          | 6.767       | 1.22          | 12.767      | 5.20          | 18.77       | 0.92          |
| 0.800                              | 0.61          | 6.800       | 1.22          | 12.800      | 5.20          | 18.80       | 0.92          |
| 0.833                              | 0.61          | 6.833       | 1.22          | 12.833      | 3.67          | 18.83       | 0.92          |
| 0.867                              | 0.61          | 6.867       | 1.22          | 12.867      | 3.67          | 18.87       | 0.92          |
| 0.900                              | 0.61          | 6.900       | 1.22          | 12.900      | 3.67          | 18.90       | 0.92          |
| 0.933                              | 0.61          | 6.933       | 1.22          | 12.933      | 3.67          | 18.93       | 0.92          |
| 0.967                              | 0.61          | 6.967       | 1.22          | 12.967      | 3.67          | 18.97       | 0.92          |
| 1.000                              | 0.61          | 7.000       | 1.22          | 13.000      | 3.67          | 19.00       | 0.92          |
| 1.033                              | 0.61          | 7.033       | 1.22          | 13.033      | 3.06          | 19.03       | 1.22          |
| 1.067                              | 0.61          | 7.067       | 1.22          | 13.067      | 3.06          | 19.07       | 1.22          |
| 1.100                              | 0.61          | 7.100       | 1.22          | 13.100      | 3.06          | 19.10       | 1.22          |
| 1.133                              | 0.61          | 7.133       | 1.22          | 13.133      | 3.06          | 19.13       | 1.22          |
| 1.167                              | 0.61          | 7.167       | 1.22          | 13.167      | 3.06          | 19.17       | 1.22          |
| 1.200                              | 0.61          | 7.200       | 1.22          | 13.200      | 3.06          | 19.20       | 1.22          |
| 1.233                              | 0.61          | 7.233       | 1.22          | 13.233      | 3.06          | 19.23       | 0.92          |
| 1.267                              | 0.61          | 7.267       | 1.22          | 13.267      | 3.06          | 19.27       | 0.92          |
| 1.300                              | 0.61          | 7.300       | 1.22          | 13.300      | 3.06          | 19.30       | 0.92          |
| 1.333                              | 0.61          | 7.333       | 1.22          | 13.333      | 3.06          | 19.33       | 0.92          |
| 1.367                              | 0.61          | 7.367       | 1.22          | 13.367      | 3.06          | 19.37       | 0.92          |
| 1.400                              | 0.61          | 7.400       | 1.22          | 13.400      | 3.06          | 19.40       | 0.92          |
| 1.433                              | 0.61          | 7.433       | 1.22          | 13.433      | 3.06          | 19.43       | 1.22          |
| 1.467                              | 0.61          | 7.467       | 1.22          | 13.467      | 3.06          | 19.47       | 1.22          |
| 1.500                              | 0.61          | 7.500       | 1.22          | 13.500      | 3.06          | 19.50       | 1.22          |
| 1.533                              | 0.61          | 7.533       | 1.22          | 13.533      | 3.06          | 19.53       | 1.22          |
| 1.567                              | 0.61          | 7.567       | 1.22          | 13.567      | 3.06          | 19.57       | 1.22          |
| 1.600                              | 0.61          | 7.600       | 1.22          | 13.600      | 3.06          | 19.60       | 1.22          |
| 1.633                              | 0.61          | 7.633       | 1.22          | 13.633      | 3.06          | 19.63       | 0.92          |
| 1.667                              | 0.61          | 7.667       | 1.22          | 13.667      | 3.06          | 19.67       | 0.92          |
| 1.700                              | 0.61          | 7.700       | 1.22          | 13.700      | 3.06          | 19.70       | 0.92          |
| 1.733                              | 0.61          | 7.733       | 1.22          | 13.733      | 3.06          | 19.73       | 0.92          |
| 1.767                              | 0.61          | 7.767       | 1.22          | 13.767      | 3.06          | 19.77       | 0.92          |
| 1.800                              | 0.61          | 7.800       | 1.22          | 13.800      | 3.06          | 19.80       | 0.92          |
| 1.833                              | 0.61          | 7.833       | 1.22          | 13.833      | 3.06          | 19.83       | 1.22          |
| 1.867                              | 0.61          | 7.867       | 1.22          | 13.867      | 3.06          | 19.87       | 1.22          |
| 1.900                              | 0.61          | 7.900       | 1.22          | 13.900      | 3.06          | 19.90       | 1.22          |
| 1.933                              | 0.61          | 7.933       | 1.22          | 13.933      | 3.06          | 19.93       | 1.22          |
| 1.967                              | 0.61          | 7.967       | 1.22          | 13.967      | 3.06          | 19.97       | 1.22          |
| 2.000                              | 0.61          | 8.000       | 1.22          | 14.000      | 3.06          | 20.00       | 1.22          |
| 2.033                              | 0.61          | 8.033       | 1.84          | 14.033      | 1.84          | 20.03       | 0.92          |
| 2.067                              | 0.61          | 8.067       | 1.84          | 14.067      | 1.84          | 20.07       | 0.92          |
| 2.100                              | 0.61          | 8.100       | 1.84          | 14.100      | 1.84          | 20.10       | 0.92          |
| 2.133                              | 0.61          | 8.133       | 1.84          | 14.133      | 1.84          | 20.13       | 0.92          |
| 2.167                              | 0.61          | 8.167       | 1.84          | 14.167      | 1.84          | 20.17       | 0.92          |
| 2.200                              | 0.61          | 8.200       | 1.84          | 14.200      | 1.84          | 20.20       | 0.92          |
| 2.233                              | 0.61          | 8.233       | 1.84          | 14.233      | 1.84          | 20.23       | 0.92          |
| 2.267                              | 0.61          | 8.267       | 1.84          | 14.267      | 1.84          | 20.27       | 0.92          |
| 2.300                              | 0.61          | 8.300       | 1.84          | 14.300      | 1.84          | 20.30       | 0.92          |
| 2.333                              | 0.61          | 8.333       | 1.84          | 14.333      | 1.84          | 20.33       | 0.92          |
| 2.367                              | 0.61          | 8.367       | 1.84          | 14.367      | 1.84          | 20.37       | 0.92          |
| 2.400                              | 0.61          | 8.400       | 1.84          | 14.400      | 1.84          | 20.40       | 0.92          |
| 2.433                              | 0.61          | 8.433       | 1.84          | 14.433      | 1.84          | 20.43       | 0.61          |
| 2.467                              | 0.61          | 8.467       | 1.84          | 14.467      | 1.84          | 20.47       | 0.61          |
| 2.500                              | 0.61          | 8.500       | 1.84          | 14.500      | 1.84          | 20.50       | 0.61          |
| 2.533                              | 0.61          | 8.533       | 1.84          | 14.533      | 1.84          | 20.53       | 0.61          |
| 2.567                              | 0.61          | 8.567       | 1.84          | 14.567      | 1.84          | 20.57       | 0.61          |
| 2.600                              | 0.61          | 8.600       | 1.84          | 14.600      | 1.84          | 20.60       | 0.61          |
| 2.633                              | 0.61          | 8.633       | 1.84          | 14.633      | 1.84          | 20.63       | 0.92          |
| 2.667                              | 0.61          | 8.667       | 1.84          | 14.667      | 1.84          | 20.67       | 0.92          |
| 2.700                              | 0.61          | 8.700       | 1.84          | 14.700      | 1.84          | 20.70       | 0.92          |
| 2.733                              | 0.61          | 8.733       | 1.84          | 14.733      | 1.84          | 20.73       | 0.92          |
| 2.767                              | 0.61          | 8.767       | 1.84          | 14.767      | 1.84          | 20.77       | 0.92          |
| 2.800                              | 0.61          | 8.800       | 1.84          | 14.800      | 1.84          | 20.80       | 0.92          |
| 2.833                              | 0.61          | 8.833       | 1.84          | 14.833      | 1.84          | 20.83       | 0.92          |
| 2.867                              | 0.61          | 8.867       | 1.84          | 14.867      | 1.84          | 20.87       | 0.92          |
| 2.900                              | 0.61          | 8.900       | 1.84          | 14.900      | 1.84          | 20.90       | 0.92          |
| 2.933                              | 0.61          | 8.933       | 1.84          | 14.933      | 1.84          | 20.93       | 0.92          |
| 2.967                              | 0.61          | 8.967       | 1.84          | 14.967      | 1.84          | 20.97       | 0.92          |
| 3.000                              | 0.61          | 9.000       | 1.84          | 15.000      | 1.84          | 21.00       | 0.92          |
| 3.033                              | 0.61          | 9.033       | 1.84          | 15.033      | 1.53          | 21.03       | 0.61          |
| 3.067                              | 0.61          | 9.067       | 1.84          | 15.067      | 1.53          | 21.07       | 0.61          |
| 3.100                              | 0.61          | 9.100       | 1.84          | 15.100      | 1.53          | 21.10       | 0.61          |
| 3.133                              | 0.61          | 9.133       | 1.84          | 15.133      | 1.53          | 21.13       | 0.61          |
| 3.167                              | 0.61          | 9.167       | 1.84          | 15.167      | 1.53          | 21.17       | 0.61          |
| 3.200                              | 0.61          | 9.200       | 1.84          | 15.200      | 1.53          | 21.20       | 0.61          |
| 3.233                              | 0.61          | 9.233       | 1.84          | 15.233      | 1.53          | 21.23       | 0.92          |
| 3.267                              | 0.61          | 9.267       | 1.84          | 15.267      | 1.53          | 21.27       | 0.92          |
| 3.300                              | 0.61          | 9.300       | 1.84          | 15.300      | 1.53          | 21.30       | 0.92          |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 3.333 | 0.61 | 9.333  | 1.84  | 15.333 | 1.53 | 21.33 | 0.92 |
| 3.367 | 0.61 | 9.367  | 1.84  | 15.367 | 1.53 | 21.37 | 0.92 |
| 3.400 | 0.61 | 9.400  | 1.84  | 15.400 | 1.53 | 21.40 | 0.92 |
| 3.433 | 0.61 | 9.433  | 1.84  | 15.433 | 1.53 | 21.43 | 0.61 |
| 3.467 | 0.61 | 9.467  | 1.84  | 15.467 | 1.53 | 21.47 | 0.61 |
| 3.500 | 0.61 | 9.500  | 1.84  | 15.500 | 1.53 | 21.50 | 0.61 |
| 3.533 | 0.61 | 9.533  | 1.84  | 15.533 | 1.53 | 21.53 | 0.61 |
| 3.567 | 0.61 | 9.567  | 1.84  | 15.567 | 1.53 | 21.57 | 0.61 |
| 3.600 | 0.61 | 9.600  | 1.84  | 15.600 | 1.53 | 21.60 | 0.61 |
| 3.633 | 0.61 | 9.633  | 1.84  | 15.633 | 1.53 | 21.63 | 0.92 |
| 3.667 | 0.61 | 9.667  | 1.84  | 15.667 | 1.53 | 21.67 | 0.92 |
| 3.700 | 0.61 | 9.700  | 1.84  | 15.700 | 1.53 | 21.70 | 0.92 |
| 3.733 | 0.61 | 9.733  | 1.84  | 15.733 | 1.53 | 21.73 | 0.92 |
| 3.767 | 0.61 | 9.767  | 1.84  | 15.767 | 1.53 | 21.77 | 0.92 |
| 3.800 | 0.61 | 9.800  | 1.84  | 15.800 | 1.53 | 21.80 | 0.92 |
| 3.833 | 0.61 | 9.833  | 1.84  | 15.833 | 1.53 | 21.83 | 0.61 |
| 3.867 | 0.61 | 9.867  | 1.84  | 15.867 | 1.53 | 21.87 | 0.61 |
| 3.900 | 0.61 | 9.900  | 1.84  | 15.900 | 1.53 | 21.90 | 0.61 |
| 3.933 | 0.61 | 9.933  | 1.84  | 15.933 | 1.53 | 21.93 | 0.61 |
| 3.967 | 0.61 | 9.967  | 1.84  | 15.967 | 1.53 | 21.97 | 0.61 |
| 4.000 | 0.61 | 10.000 | 1.84  | 16.000 | 1.53 | 22.00 | 0.61 |
| 4.033 | 1.22 | 10.033 | 3.37  | 16.033 | 1.53 | 22.03 | 0.61 |
| 4.067 | 1.22 | 10.067 | 3.37  | 16.067 | 1.53 | 22.07 | 0.61 |
| 4.100 | 1.22 | 10.100 | 3.37  | 16.100 | 1.53 | 22.10 | 0.61 |
| 4.133 | 1.22 | 10.133 | 3.37  | 16.133 | 1.53 | 22.13 | 0.61 |
| 4.167 | 1.22 | 10.167 | 3.37  | 16.167 | 1.53 | 22.17 | 0.61 |
| 4.200 | 1.22 | 10.200 | 3.37  | 16.200 | 1.53 | 22.20 | 0.61 |
| 4.233 | 1.22 | 10.233 | 3.37  | 16.233 | 1.53 | 22.23 | 0.92 |
| 4.267 | 1.22 | 10.267 | 3.37  | 16.267 | 1.53 | 22.27 | 0.92 |
| 4.300 | 1.22 | 10.300 | 3.37  | 16.300 | 1.53 | 22.30 | 0.92 |
| 4.333 | 1.22 | 10.333 | 3.37  | 16.333 | 1.53 | 22.33 | 0.92 |
| 4.367 | 1.22 | 10.367 | 3.37  | 16.367 | 1.53 | 22.37 | 0.92 |
| 4.400 | 1.22 | 10.400 | 3.37  | 16.400 | 1.53 | 22.40 | 0.92 |
| 4.433 | 1.22 | 10.433 | 3.37  | 16.433 | 1.53 | 22.43 | 0.61 |
| 4.467 | 1.22 | 10.467 | 3.37  | 16.467 | 1.53 | 22.47 | 0.61 |
| 4.500 | 1.22 | 10.500 | 3.37  | 16.500 | 1.53 | 22.50 | 0.61 |
| 4.533 | 1.22 | 10.533 | 3.37  | 16.533 | 1.53 | 22.53 | 0.61 |
| 4.567 | 1.22 | 10.567 | 3.37  | 16.567 | 1.53 | 22.57 | 0.61 |
| 4.600 | 1.22 | 10.600 | 3.37  | 16.600 | 1.53 | 22.60 | 0.61 |
| 4.633 | 1.22 | 10.633 | 3.37  | 16.633 | 1.53 | 22.63 | 0.92 |
| 4.667 | 1.22 | 10.667 | 3.37  | 16.667 | 1.53 | 22.67 | 0.92 |
| 4.700 | 1.22 | 10.700 | 3.37  | 16.700 | 1.53 | 22.70 | 0.92 |
| 4.733 | 1.22 | 10.733 | 3.37  | 16.733 | 1.53 | 22.73 | 0.92 |
| 4.767 | 1.22 | 10.767 | 3.37  | 16.767 | 1.53 | 22.77 | 0.92 |
| 4.800 | 1.22 | 10.800 | 3.37  | 16.800 | 1.53 | 22.80 | 0.92 |
| 4.833 | 1.22 | 10.833 | 3.37  | 16.833 | 0.92 | 22.83 | 0.61 |
| 4.867 | 1.22 | 10.867 | 3.37  | 16.867 | 0.92 | 22.87 | 0.61 |
| 4.900 | 1.22 | 10.900 | 3.37  | 16.900 | 0.92 | 22.90 | 0.61 |
| 4.933 | 1.22 | 10.933 | 3.37  | 16.933 | 0.92 | 22.93 | 0.61 |
| 4.967 | 1.22 | 10.967 | 3.37  | 16.967 | 0.92 | 22.97 | 0.61 |
| 5.000 | 1.22 | 11.000 | 3.37  | 17.000 | 0.92 | 23.00 | 0.61 |
| 5.033 | 1.22 | 11.033 | 4.59  | 17.033 | 0.92 | 23.03 | 0.61 |
| 5.067 | 1.22 | 11.067 | 4.59  | 17.067 | 0.92 | 23.07 | 0.61 |
| 5.100 | 1.22 | 11.100 | 4.59  | 17.100 | 0.92 | 23.10 | 0.61 |
| 5.133 | 1.22 | 11.133 | 4.59  | 17.133 | 0.92 | 23.13 | 0.61 |
| 5.167 | 1.22 | 11.167 | 4.59  | 17.167 | 0.92 | 23.17 | 0.61 |
| 5.200 | 1.22 | 11.200 | 4.59  | 17.200 | 0.92 | 23.20 | 0.61 |
| 5.233 | 1.22 | 11.233 | 6.73  | 17.233 | 1.22 | 23.23 | 0.61 |
| 5.267 | 1.22 | 11.267 | 6.73  | 17.267 | 1.22 | 23.27 | 0.61 |
| 5.300 | 1.22 | 11.300 | 6.73  | 17.300 | 1.22 | 23.30 | 0.61 |
| 5.333 | 1.22 | 11.333 | 6.73  | 17.333 | 1.22 | 23.33 | 0.61 |
| 5.367 | 1.22 | 11.367 | 6.73  | 17.367 | 1.22 | 23.37 | 0.61 |
| 5.400 | 1.22 | 11.400 | 6.74  | 17.400 | 1.22 | 23.40 | 0.61 |
| 5.433 | 1.22 | 11.433 | 16.22 | 17.433 | 0.92 | 23.43 | 0.92 |
| 5.467 | 1.22 | 11.467 | 16.22 | 17.467 | 0.92 | 23.47 | 0.92 |
| 5.500 | 1.22 | 11.500 | 16.22 | 17.500 | 0.92 | 23.50 | 0.92 |
| 5.533 | 1.22 | 11.533 | 16.22 | 17.533 | 0.92 | 23.53 | 0.92 |
| 5.567 | 1.22 | 11.567 | 16.22 | 17.567 | 0.92 | 23.57 | 0.92 |
| 5.600 | 1.22 | 11.600 | 16.24 | 17.600 | 0.92 | 23.60 | 0.92 |
| 5.633 | 1.22 | 11.633 | 33.66 | 17.633 | 1.22 | 23.63 | 0.61 |
| 5.667 | 1.22 | 11.667 | 33.66 | 17.667 | 1.22 | 23.67 | 0.61 |
| 5.700 | 1.22 | 11.700 | 33.66 | 17.700 | 1.22 | 23.70 | 0.61 |
| 5.733 | 1.22 | 11.733 | 33.66 | 17.733 | 1.22 | 23.73 | 0.61 |
| 5.767 | 1.22 | 11.767 | 33.66 | 17.767 | 1.22 | 23.77 | 0.61 |
| 5.800 | 1.22 | 11.800 | 33.71 | 17.800 | 1.22 | 23.80 | 0.61 |
| 5.833 | 1.22 | 11.833 | 68.85 | 17.833 | 0.92 | 23.83 | 0.61 |
| 5.867 | 1.22 | 11.867 | 68.85 | 17.867 | 0.92 | 23.87 | 0.61 |
| 5.900 | 1.22 | 11.900 | 68.85 | 17.900 | 0.92 | 23.90 | 0.61 |
| 5.933 | 1.22 | 11.933 | 68.85 | 17.933 | 0.92 | 23.93 | 0.61 |
| 5.967 | 1.22 | 11.967 | 68.85 | 17.967 | 0.92 | 23.97 | 0.61 |
| 6.000 | 1.22 | 12.000 | 68.77 | 18.000 | 0.92 | 24.00 | 0.61 |

Unit Hyd Qpeak (cms)= 1.809

PEAK FLOW (cms)= 0.544 (i)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 25.888  
TOTAL RAINFALL (mm)= 61.200  
RUNOFF COEFFICIENT = 0.423

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                                                   |       |       |                      |       |
|---------------------------------------------------|-------|-------|----------------------|-------|
| ADD HYD ( 0040)                                   |       |       |                      |       |
| 1 + 2 = 3                                         |       |       |                      |       |
|                                                   | AREA  | OPEAK | TPEAK                | R.V.  |
|                                                   | (ha)  | (cms) | (hrs)                | (mm)  |
| ID1= 1 ( 0401):                                   | 5.97  | 0.428 | 12.07                | 25.89 |
| + ID2= 2 ( 0402):                                 | 7.58  | 0.544 | 12.07                | 25.89 |
| =====                                             |       |       |                      |       |
| ID = 3 ( 0040):                                   | 13.55 | 0.972 | 12.07                | 25.89 |
| NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY. |       |       |                      |       |
| -----                                             |       |       |                      |       |
| CALIB                                             |       |       |                      |       |
| NASHYD ( 0403)                                    |       |       |                      |       |
| ID= 1 DT= 2.0 min                                 |       |       |                      |       |
| -----                                             |       |       |                      |       |
| Area                                              | (ha)= | 2.87  | Curve Number (CN)=   | 81.0  |
| Ia                                                | (mm)= | 6.80  | # of Linear Res.(N)= | 3.00  |
| U.H. Tp(hrs)=                                     |       | 0.15  |                      |       |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

|                                    |       |       |       |        |       |       |       |  |  |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|--|--|
| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |  |  |
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |  |  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |  |  |
| 0.033                              | 0.61  | 6.033 | 1.22  | 12.033 | 12.24 | 18.03 | 0.92  |  |  |
| 0.067                              | 0.61  | 6.067 | 1.22  | 12.067 | 12.24 | 18.07 | 0.92  |  |  |
| 0.100                              | 0.61  | 6.100 | 1.22  | 12.100 | 12.24 | 18.10 | 0.92  |  |  |
| 0.133                              | 0.61  | 6.133 | 1.22  | 12.133 | 12.24 | 18.13 | 0.92  |  |  |
| 0.167                              | 0.61  | 6.167 | 1.22  | 12.167 | 12.24 | 18.17 | 0.92  |  |  |
| 0.200                              | 0.61  | 6.200 | 1.22  | 12.200 | 12.23 | 18.20 | 0.92  |  |  |
| 0.233                              | 0.61  | 6.233 | 1.22  | 12.233 | 7.65  | 18.23 | 0.92  |  |  |
| 0.267                              | 0.61  | 6.267 | 1.22  | 12.267 | 7.65  | 18.27 | 0.92  |  |  |
| 0.300                              | 0.61  | 6.300 | 1.22  | 12.300 | 7.65  | 18.30 | 0.92  |  |  |
| 0.333                              | 0.61  | 6.333 | 1.22  | 12.333 | 7.65  | 18.33 | 0.92  |  |  |

|       |      |        |      |        |      |       |      |
|-------|------|--------|------|--------|------|-------|------|
| 0.367 | 0.61 | 6.367  | 1.22 | 12.367 | 7.65 | 18.37 | 0.92 |
| 0.400 | 0.61 | 6.400  | 1.22 | 12.400 | 7.65 | 18.40 | 0.92 |
| 0.433 | 0.61 | 6.433  | 1.22 | 12.433 | 5.51 | 18.43 | 1.22 |
| 0.467 | 0.61 | 6.467  | 1.22 | 12.467 | 5.51 | 18.47 | 1.22 |
| 0.500 | 0.61 | 6.500  | 1.22 | 12.500 | 5.51 | 18.50 | 1.22 |
| 0.533 | 0.61 | 6.533  | 1.22 | 12.533 | 5.51 | 18.53 | 1.22 |
| 0.567 | 0.61 | 6.567  | 1.22 | 12.567 | 5.51 | 18.57 | 1.22 |
| 0.600 | 0.61 | 6.600  | 1.22 | 12.600 | 5.51 | 18.60 | 1.22 |
| 0.633 | 0.61 | 6.633  | 1.22 | 12.633 | 5.20 | 18.63 | 0.92 |
| 0.667 | 0.61 | 6.667  | 1.22 | 12.667 | 5.20 | 18.67 | 0.92 |
| 0.700 | 0.61 | 6.700  | 1.22 | 12.700 | 5.20 | 18.70 | 0.92 |
| 0.733 | 0.61 | 6.733  | 1.22 | 12.733 | 5.20 | 18.73 | 0.92 |
| 0.767 | 0.61 | 6.767  | 1.22 | 12.767 | 5.20 | 18.77 | 0.92 |
| 0.800 | 0.61 | 6.800  | 1.22 | 12.800 | 5.20 | 18.80 | 0.92 |
| 0.833 | 0.61 | 6.833  | 1.22 | 12.833 | 3.67 | 18.83 | 0.92 |
| 0.867 | 0.61 | 6.867  | 1.22 | 12.867 | 3.67 | 18.87 | 0.92 |
| 0.900 | 0.61 | 6.900  | 1.22 | 12.900 | 3.67 | 18.90 | 0.92 |
| 0.933 | 0.61 | 6.933  | 1.22 | 12.933 | 3.67 | 18.93 | 0.92 |
| 0.967 | 0.61 | 6.967  | 1.22 | 12.967 | 3.67 | 18.97 | 0.92 |
| 1.000 | 0.61 | 7.000  | 1.22 | 13.000 | 3.67 | 19.00 | 0.92 |
| 1.033 | 0.61 | 7.033  | 1.22 | 13.033 | 3.06 | 19.03 | 1.22 |
| 1.067 | 0.61 | 7.067  | 1.22 | 13.067 | 3.06 | 19.07 | 1.22 |
| 1.100 | 0.61 | 7.100  | 1.22 | 13.100 | 3.06 | 19.10 | 1.22 |
| 1.133 | 0.61 | 7.133  | 1.22 | 13.133 | 3.06 | 19.13 | 1.22 |
| 1.167 | 0.61 | 7.167  | 1.22 | 13.167 | 3.06 | 19.17 | 1.22 |
| 1.200 | 0.61 | 7.200  | 1.22 | 13.200 | 3.06 | 19.20 | 1.22 |
| 1.233 | 0.61 | 7.233  | 1.22 | 13.233 | 3.06 | 19.23 | 0.92 |
| 1.267 | 0.61 | 7.267  | 1.22 | 13.267 | 3.06 | 19.27 | 0.92 |
| 1.300 | 0.61 | 7.300  | 1.22 | 13.300 | 3.06 | 19.30 | 0.92 |
| 1.333 | 0.61 | 7.333  | 1.22 | 13.333 | 3.06 | 19.33 | 0.92 |
| 1.367 | 0.61 | 7.367  | 1.22 | 13.367 | 3.06 | 19.37 | 0.92 |
| 1.400 | 0.61 | 7.400  | 1.22 | 13.400 | 3.06 | 19.40 | 0.92 |
| 1.433 | 0.61 | 7.433  | 1.22 | 13.433 | 3.06 | 19.43 | 1.22 |
| 1.467 | 0.61 | 7.467  | 1.22 | 13.467 | 3.06 | 19.47 | 1.22 |
| 1.500 | 0.61 | 7.500  | 1.22 | 13.500 | 3.06 | 19.50 | 1.22 |
| 1.533 | 0.61 | 7.533  | 1.22 | 13.533 | 3.06 | 19.53 | 1.22 |
| 1.567 | 0.61 | 7.567  | 1.22 | 13.567 | 3.06 | 19.57 | 1.22 |
| 1.600 | 0.61 | 7.600  | 1.22 | 13.600 | 3.06 | 19.60 | 1.22 |
| 1.633 | 0.61 | 7.633  | 1.22 | 13.633 | 3.06 | 19.63 | 0.92 |
| 1.667 | 0.61 | 7.667  | 1.22 | 13.667 | 3.06 | 19.67 | 0.92 |
| 1.700 | 0.61 | 7.700  | 1.22 | 13.700 | 3.06 | 19.70 | 0.92 |
| 1.733 | 0.61 | 7.733  | 1.22 | 13.733 | 3.06 | 19.73 | 0.92 |
| 1.767 | 0.61 | 7.767  | 1.22 | 13.767 | 3.06 | 19.77 | 0.92 |
| 1.800 | 0.61 | 7.800  | 1.22 | 13.800 | 3.06 | 19.80 | 0.92 |
| 1.833 | 0.61 | 7.833  | 1.22 | 13.833 | 3.06 | 19.83 | 1.22 |
| 1.867 | 0.61 | 7.867  | 1.22 | 13.867 | 3.06 | 19.87 | 1.22 |
| 1.900 | 0.61 | 7.900  | 1.22 | 13.900 | 3.06 | 19.90 | 1.22 |
| 1.933 | 0.61 | 7.933  | 1.22 | 13.933 | 3.06 | 19.93 | 1.22 |
| 1.967 | 0.61 | 7.967  | 1.22 | 13.967 | 3.06 | 19.97 | 1.22 |
| 2.000 | 0.61 | 8.000  | 1.22 | 14.000 | 3.06 | 20.00 | 1.22 |
| 2.033 | 0.61 | 8.033  | 1.84 | 14.033 | 1.84 | 20.03 | 0.92 |
| 2.067 | 0.61 | 8.067  | 1.84 | 14.067 | 1.84 | 20.07 | 0.92 |
| 2.100 | 0.61 | 8.100  | 1.84 | 14.100 | 1.84 | 20.10 | 0.92 |
| 2.133 | 0.61 | 8.133  | 1.84 | 14.133 | 1.84 | 20.13 | 0.92 |
| 2.167 | 0.61 | 8.167  | 1.84 | 14.167 | 1.84 | 20.17 | 0.92 |
| 2.200 | 0.61 | 8.200  | 1.84 | 14.200 | 1.84 | 20.20 | 0.92 |
| 2.233 | 0.61 | 8.233  | 1.84 | 14.233 | 1.84 | 20.23 | 0.92 |
| 2.267 | 0.61 | 8.267  | 1.84 | 14.267 | 1.84 | 20.27 | 0.92 |
| 2.300 | 0.61 | 8.300  | 1.84 | 14.300 | 1.84 | 20.30 | 0.92 |
| 2.333 | 0.61 | 8.333  | 1.84 | 14.333 | 1.84 | 20.33 | 0.92 |
| 2.367 | 0.61 | 8.367  | 1.84 | 14.367 | 1.84 | 20.37 | 0.92 |
| 2.400 | 0.61 | 8.400  | 1.84 | 14.400 | 1.84 | 20.40 | 0.92 |
| 2.433 | 0.61 | 8.433  | 1.84 | 14.433 | 1.84 | 20.43 | 0.61 |
| 2.467 | 0.61 | 8.467  | 1.84 | 14.467 | 1.84 | 20.47 | 0.61 |
| 2.500 | 0.61 | 8.500  | 1.84 | 14.500 | 1.84 | 20.50 | 0.61 |
| 2.533 | 0.61 | 8.533  | 1.84 | 14.533 | 1.84 | 20.53 | 0.61 |
| 2.567 | 0.61 | 8.567  | 1.84 | 14.567 | 1.84 | 20.57 | 0.61 |
| 2.600 | 0.61 | 8.600  | 1.84 | 14.600 | 1.84 | 20.60 | 0.61 |
| 2.633 | 0.61 | 8.633  | 1.84 | 14.633 | 1.84 | 20.63 | 0.92 |
| 2.667 | 0.61 | 8.667  | 1.84 | 14.667 | 1.84 | 20.67 | 0.92 |
| 2.700 | 0.61 | 8.700  | 1.84 | 14.700 | 1.84 | 20.70 | 0.92 |
| 2.733 | 0.61 | 8.733  | 1.84 | 14.733 | 1.84 | 20.73 | 0.92 |
| 2.767 | 0.61 | 8.767  | 1.84 | 14.767 | 1.84 | 20.77 | 0.92 |
| 2.800 | 0.61 | 8.800  | 1.84 | 14.800 | 1.84 | 20.80 | 0.92 |
| 2.833 | 0.61 | 8.833  | 1.84 | 14.833 | 1.84 | 20.83 | 0.92 |
| 2.867 | 0.61 | 8.867  | 1.84 | 14.867 | 1.84 | 20.87 | 0.92 |
| 2.900 | 0.61 | 8.900  | 1.84 | 14.900 | 1.84 | 20.90 | 0.92 |
| 2.933 | 0.61 | 8.933  | 1.84 | 14.933 | 1.84 | 20.93 | 0.92 |
| 2.967 | 0.61 | 8.967  | 1.84 | 14.967 | 1.84 | 20.97 | 0.92 |
| 3.000 | 0.61 | 9.000  | 1.84 | 15.000 | 1.84 | 21.00 | 0.92 |
| 3.033 | 0.61 | 9.033  | 1.84 | 15.033 | 1.53 | 21.03 | 0.61 |
| 3.067 | 0.61 | 9.067  | 1.84 | 15.067 | 1.53 | 21.07 | 0.61 |
| 3.100 | 0.61 | 9.100  | 1.84 | 15.100 | 1.53 | 21.10 | 0.61 |
| 3.133 | 0.61 | 9.133  | 1.84 | 15.133 | 1.53 | 21.13 | 0.61 |
| 3.167 | 0.61 | 9.167  | 1.84 | 15.167 | 1.53 | 21.17 | 0.61 |
| 3.200 | 0.61 | 9.200  | 1.84 | 15.200 | 1.53 | 21.20 | 0.61 |
| 3.233 | 0.61 | 9.233  | 1.84 | 15.233 | 1.53 | 21.23 | 0.92 |
| 3.267 | 0.61 | 9.267  | 1.84 | 15.267 | 1.53 | 21.27 | 0.92 |
| 3.300 | 0.61 | 9.300  | 1.84 | 15.300 | 1.53 | 21.30 | 0.92 |
| 3.333 | 0.61 | 9.333  | 1.84 | 15.333 | 1.53 | 21.33 | 0.92 |
| 3.367 | 0.61 | 9.367  | 1.84 | 15.367 | 1.53 | 21.37 | 0.92 |
| 3.400 | 0.61 | 9.400  | 1.84 | 15.400 | 1.53 | 21.40 | 0.92 |
| 3.433 | 0.61 | 9.433  | 1.84 | 15.433 | 1.53 | 21.43 | 0.61 |
| 3.467 | 0.61 | 9.467  | 1.84 | 15.467 | 1.53 | 21.47 | 0.61 |
| 3.500 | 0.61 | 9.500  | 1.84 | 15.500 | 1.53 | 21.50 | 0.61 |
| 3.533 | 0.61 | 9.533  | 1.84 | 15.533 | 1.53 | 21.53 | 0.61 |
| 3.567 | 0.61 | 9.567  | 1.84 | 15.567 | 1.53 | 21.57 | 0.61 |
| 3.600 | 0.61 | 9.600  | 1.84 | 15.600 | 1.53 | 21.60 | 0.61 |
| 3.633 | 0.61 | 9.633  | 1.84 | 15.633 | 1.53 | 21.63 | 0.92 |
| 3.667 | 0.61 | 9.667  | 1.84 | 15.667 | 1.53 | 21.67 | 0.92 |
| 3.700 | 0.61 | 9.700  | 1.84 | 15.700 | 1.53 | 21.70 | 0.92 |
| 3.733 | 0.61 | 9.733  | 1.84 | 15.733 | 1.53 | 21.73 | 0.92 |
| 3.767 | 0.61 | 9.767  | 1.84 | 15.767 | 1.53 | 21.77 | 0.92 |
| 3.800 | 0.61 | 9.800  | 1.84 | 15.800 | 1.53 | 21.80 | 0.92 |
| 3.833 | 0.61 | 9.833  | 1.84 | 15.833 | 1.53 | 21.83 | 0.61 |
| 3.867 | 0.61 | 9.867  | 1.84 | 15.867 | 1.53 | 21.87 | 0.61 |
| 3.900 | 0.61 | 9.900  | 1.84 | 15.900 | 1.53 | 21.90 | 0.61 |
| 3.933 | 0.61 | 9.933  | 1.84 | 15.933 | 1.53 | 21.93 | 0.61 |
| 3.967 | 0.61 | 9.967  | 1.84 | 15.967 | 1.53 | 21.97 | 0.61 |
| 4.000 | 0.61 | 10.000 | 1.84 | 16.000 | 1.53 | 22.00 | 0.61 |
| 4.033 | 1.22 | 10.033 | 3.37 | 16.033 | 1.53 | 22.03 | 0.61 |
| 4.067 | 1.22 | 10.067 | 3.37 | 16.067 | 1.53 | 22.07 | 0.61 |
| 4.100 | 1.22 | 10.100 | 3.37 | 16.100 | 1.53 | 22.10 | 0.61 |
| 4.133 | 1.22 | 10.133 | 3.37 | 16.133 | 1.53 | 22.13 | 0.61 |
| 4.167 | 1.22 | 10.167 | 3.37 | 16.167 | 1.53 | 22.17 | 0.61 |
| 4.200 | 1.22 | 10.200 | 3.37 | 16.200 | 1.53 | 22.20 | 0.61 |
| 4.233 | 1.22 | 10.233 | 3.37 | 16.233 | 1.53 | 22.23 | 0.92 |
| 4.267 | 1.22 | 10.267 | 3.37 | 16.267 | 1.53 | 22.27 | 0.92 |
| 4.300 | 1.22 | 10.300 | 3.37 | 16.300 | 1.53 | 22.30 | 0.92 |
| 4.333 | 1.22 | 10.333 | 3.37 | 16.333 | 1.53 | 22.33 | 0.92 |
| 4.367 | 1.22 | 10.367 | 3.37 | 16.367 | 1.53 | 22.37 | 0.92 |
| 4.400 | 1.22 | 10.400 | 3.37 | 16.400 | 1.53 | 22.40 | 0.92 |
| 4.433 | 1.22 | 10.433 | 3.37 | 16.433 | 1.53 | 22.43 | 0.61 |
| 4.467 | 1.22 | 10.467 | 3.37 | 16.467 | 1.53 | 22.47 | 0.61 |
| 4.500 | 1.22 | 10.500 | 3.37 | 16.500 | 1.53 | 22.50 | 0.61 |
| 4.533 | 1.22 | 10.533 | 3.37 | 16.533 | 1.53 | 22.53 | 0.61 |
| 4.567 | 1.22 | 10.567 | 3.37 | 16.567 | 1.53 | 22.57 | 0.61 |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 4.600 | 1.22 | 10.600 | 3.37  | 16.600 | 1.53 | 22.60 | 0.61 |
| 4.633 | 1.22 | 10.633 | 3.37  | 16.633 | 1.53 | 22.63 | 0.92 |
| 4.667 | 1.22 | 10.667 | 3.37  | 16.667 | 1.53 | 22.67 | 0.92 |
| 4.700 | 1.22 | 10.700 | 3.37  | 16.700 | 1.53 | 22.70 | 0.92 |
| 4.733 | 1.22 | 10.733 | 3.37  | 16.733 | 1.53 | 22.73 | 0.92 |
| 4.767 | 1.22 | 10.767 | 3.37  | 16.767 | 1.53 | 22.77 | 0.92 |
| 4.800 | 1.22 | 10.800 | 3.37  | 16.800 | 1.53 | 22.80 | 0.92 |
| 4.833 | 1.22 | 10.833 | 3.37  | 16.833 | 0.92 | 22.83 | 0.61 |
| 4.867 | 1.22 | 10.867 | 3.37  | 16.867 | 0.92 | 22.87 | 0.61 |
| 4.900 | 1.22 | 10.900 | 3.37  | 16.900 | 0.92 | 22.90 | 0.61 |
| 4.933 | 1.22 | 10.933 | 3.37  | 16.933 | 0.92 | 22.93 | 0.61 |
| 4.967 | 1.22 | 10.967 | 3.37  | 16.967 | 0.92 | 22.97 | 0.61 |
| 5.000 | 1.22 | 11.000 | 3.37  | 17.000 | 0.92 | 23.00 | 0.61 |
| 5.033 | 1.22 | 11.033 | 4.59  | 17.033 | 0.92 | 23.03 | 0.61 |
| 5.067 | 1.22 | 11.067 | 4.59  | 17.067 | 0.92 | 23.07 | 0.61 |
| 5.100 | 1.22 | 11.100 | 4.59  | 17.100 | 0.92 | 23.10 | 0.61 |
| 5.133 | 1.22 | 11.133 | 4.59  | 17.133 | 0.92 | 23.13 | 0.61 |
| 5.167 | 1.22 | 11.167 | 4.59  | 17.167 | 0.92 | 23.17 | 0.61 |
| 5.200 | 1.22 | 11.200 | 4.59  | 17.200 | 0.92 | 23.20 | 0.61 |
| 5.233 | 1.22 | 11.233 | 6.73  | 17.233 | 1.22 | 23.23 | 0.61 |
| 5.267 | 1.22 | 11.267 | 6.73  | 17.267 | 1.22 | 23.27 | 0.61 |
| 5.300 | 1.22 | 11.300 | 6.73  | 17.300 | 1.22 | 23.30 | 0.61 |
| 5.333 | 1.22 | 11.333 | 6.73  | 17.333 | 1.22 | 23.33 | 0.61 |
| 5.367 | 1.22 | 11.367 | 6.73  | 17.367 | 1.22 | 23.37 | 0.61 |
| 5.400 | 1.22 | 11.400 | 6.74  | 17.400 | 1.22 | 23.40 | 0.61 |
| 5.433 | 1.22 | 11.433 | 16.22 | 17.433 | 0.92 | 23.43 | 0.92 |
| 5.467 | 1.22 | 11.467 | 16.22 | 17.467 | 0.92 | 23.47 | 0.92 |
| 5.500 | 1.22 | 11.500 | 16.22 | 17.500 | 0.92 | 23.50 | 0.92 |
| 5.533 | 1.22 | 11.533 | 16.22 | 17.533 | 0.92 | 23.53 | 0.92 |
| 5.567 | 1.22 | 11.567 | 16.22 | 17.567 | 0.92 | 23.57 | 0.92 |
| 5.600 | 1.22 | 11.600 | 16.24 | 17.600 | 0.92 | 23.60 | 0.92 |
| 5.633 | 1.22 | 11.633 | 33.66 | 17.633 | 1.22 | 23.63 | 0.61 |
| 5.667 | 1.22 | 11.667 | 33.66 | 17.667 | 1.22 | 23.67 | 0.61 |
| 5.700 | 1.22 | 11.700 | 33.66 | 17.700 | 1.22 | 23.70 | 0.61 |
| 5.733 | 1.22 | 11.733 | 33.66 | 17.733 | 1.22 | 23.73 | 0.61 |
| 5.767 | 1.22 | 11.767 | 33.66 | 17.767 | 1.22 | 23.77 | 0.61 |
| 5.800 | 1.22 | 11.800 | 33.71 | 17.800 | 1.22 | 23.80 | 0.61 |
| 5.833 | 1.22 | 11.833 | 68.85 | 17.833 | 0.92 | 23.83 | 0.61 |
| 5.867 | 1.22 | 11.867 | 68.85 | 17.867 | 0.92 | 23.87 | 0.61 |
| 5.900 | 1.22 | 11.900 | 68.85 | 17.900 | 0.92 | 23.90 | 0.61 |
| 5.933 | 1.22 | 11.933 | 68.85 | 17.933 | 0.92 | 23.93 | 0.61 |
| 5.967 | 1.22 | 11.967 | 68.85 | 17.967 | 0.92 | 23.97 | 0.61 |
| 6.000 | 1.22 | 12.000 | 68.77 | 18.000 | 0.92 | 24.00 | 0.61 |

Unit Hyd Qpeak (cms)= 0.731

PEAK FLOW (cms)= 0.212 (i)

TIME TO PEAK (hrs)= 12.067

RUNOFF VOLUME (mm)= 25.959

TOTAL RAINFALL (mm)= 61.200

RUNOFF COEFFICIENT = 0.424

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |               |      |                       |      |
|-------------------|---------------|------|-----------------------|------|
| CALIB             | Area (ha)=    | 0.85 | Curve Number (CN)=    | 86.0 |
| NASHYD ( 0404 )   | Ia (mm)=      | 4.80 | # of Linear Res. (N)= | 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= | 0.20 |                       |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ---- TRANSFORMED HYETOGRAPH ---- |       |       |       |        |       |       |       |      |       |
|----------------------------------|-------|-------|-------|--------|-------|-------|-------|------|-------|
| TIME                             | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  | TIME | RAIN  |
| hrs                              | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.033                            | 0.61  | 6.033 | 1.22  | 12.033 | 12.24 | 18.03 | 0.92  |      |       |
| 0.067                            | 0.61  | 6.067 | 1.22  | 12.067 | 12.24 | 18.07 | 0.92  |      |       |
| 0.100                            | 0.61  | 6.100 | 1.22  | 12.100 | 12.24 | 18.10 | 0.92  |      |       |
| 0.133                            | 0.61  | 6.133 | 1.22  | 12.133 | 12.24 | 18.13 | 0.92  |      |       |
| 0.167                            | 0.61  | 6.167 | 1.22  | 12.167 | 12.24 | 18.17 | 0.92  |      |       |
| 0.200                            | 0.61  | 6.200 | 1.22  | 12.200 | 12.23 | 18.20 | 0.92  |      |       |
| 0.233                            | 0.61  | 6.233 | 1.22  | 12.233 | 7.65  | 18.23 | 0.92  |      |       |
| 0.267                            | 0.61  | 6.267 | 1.22  | 12.267 | 7.65  | 18.27 | 0.92  |      |       |
| 0.300                            | 0.61  | 6.300 | 1.22  | 12.300 | 7.65  | 18.30 | 0.92  |      |       |
| 0.333                            | 0.61  | 6.333 | 1.22  | 12.333 | 7.65  | 18.33 | 0.92  |      |       |
| 0.367                            | 0.61  | 6.367 | 1.22  | 12.367 | 7.65  | 18.37 | 0.92  |      |       |
| 0.400                            | 0.61  | 6.400 | 1.22  | 12.400 | 7.65  | 18.40 | 0.92  |      |       |
| 0.433                            | 0.61  | 6.433 | 1.22  | 12.433 | 5.51  | 18.43 | 1.22  |      |       |
| 0.467                            | 0.61  | 6.467 | 1.22  | 12.467 | 5.51  | 18.47 | 1.22  |      |       |
| 0.500                            | 0.61  | 6.500 | 1.22  | 12.500 | 5.51  | 18.50 | 1.22  |      |       |
| 0.533                            | 0.61  | 6.533 | 1.22  | 12.533 | 5.51  | 18.53 | 1.22  |      |       |
| 0.567                            | 0.61  | 6.567 | 1.22  | 12.567 | 5.51  | 18.57 | 1.22  |      |       |
| 0.600                            | 0.61  | 6.600 | 1.22  | 12.600 | 5.51  | 18.60 | 1.22  |      |       |
| 0.633                            | 0.61  | 6.633 | 1.22  | 12.633 | 5.20  | 18.63 | 0.92  |      |       |
| 0.667                            | 0.61  | 6.667 | 1.22  | 12.667 | 5.20  | 18.67 | 0.92  |      |       |
| 0.700                            | 0.61  | 6.700 | 1.22  | 12.700 | 5.20  | 18.70 | 0.92  |      |       |
| 0.733                            | 0.61  | 6.733 | 1.22  | 12.733 | 5.20  | 18.73 | 0.92  |      |       |
| 0.767                            | 0.61  | 6.767 | 1.22  | 12.767 | 5.20  | 18.77 | 0.92  |      |       |
| 0.800                            | 0.61  | 6.800 | 1.22  | 12.800 | 5.20  | 18.80 | 0.92  |      |       |
| 0.833                            | 0.61  | 6.833 | 1.22  | 12.833 | 3.67  | 18.83 | 0.92  |      |       |
| 0.867                            | 0.61  | 6.867 | 1.22  | 12.867 | 3.67  | 18.87 | 0.92  |      |       |
| 0.900                            | 0.61  | 6.900 | 1.22  | 12.900 | 3.67  | 18.90 | 0.92  |      |       |
| 0.933                            | 0.61  | 6.933 | 1.22  | 12.933 | 3.67  | 18.93 | 0.92  |      |       |
| 0.967                            | 0.61  | 6.967 | 1.22  | 12.967 | 3.67  | 18.97 | 0.92  |      |       |
| 1.000                            | 0.61  | 7.000 | 1.22  | 13.000 | 3.06  | 19.00 | 0.92  |      |       |
| 1.033                            | 0.61  | 7.033 | 1.22  | 13.033 | 3.06  | 19.03 | 1.22  |      |       |
| 1.067                            | 0.61  | 7.067 | 1.22  | 13.067 | 3.06  | 19.07 | 1.22  |      |       |
| 1.100                            | 0.61  | 7.100 | 1.22  | 13.100 | 3.06  | 19.10 | 1.22  |      |       |
| 1.133                            | 0.61  | 7.133 | 1.22  | 13.133 | 3.06  | 19.13 | 1.22  |      |       |
| 1.167                            | 0.61  | 7.167 | 1.22  | 13.167 | 3.06  | 19.17 | 1.22  |      |       |
| 1.200                            | 0.61  | 7.200 | 1.22  | 13.200 | 3.06  | 19.20 | 1.22  |      |       |
| 1.233                            | 0.61  | 7.233 | 1.22  | 13.233 | 3.06  | 19.23 | 0.92  |      |       |
| 1.267                            | 0.61  | 7.267 | 1.22  | 13.267 | 3.06  | 19.27 | 0.92  |      |       |
| 1.300                            | 0.61  | 7.300 | 1.22  | 13.300 | 3.06  | 19.30 | 0.92  |      |       |
| 1.333                            | 0.61  | 7.333 | 1.22  | 13.333 | 3.06  | 19.33 | 0.92  |      |       |
| 1.367                            | 0.61  | 7.367 | 1.22  | 13.367 | 3.06  | 19.37 | 0.92  |      |       |
| 1.400                            | 0.61  | 7.400 | 1.22  | 13.400 | 3.06  | 19.40 | 0.92  |      |       |
| 1.433                            | 0.61  | 7.433 | 1.22  | 13.433 | 3.06  | 19.43 | 1.22  |      |       |
| 1.467                            | 0.61  | 7.467 | 1.22  | 13.467 | 3.06  | 19.47 | 1.22  |      |       |
| 1.500                            | 0.61  | 7.500 | 1.22  | 13.500 | 3.06  | 19.50 | 1.22  |      |       |
| 1.533                            | 0.61  | 7.533 | 1.22  | 13.533 | 3.06  | 19.53 | 1.22  |      |       |
| 1.567                            | 0.61  | 7.567 | 1.22  | 13.567 | 3.06  | 19.57 | 1.22  |      |       |
| 1.600                            | 0.61  | 7.600 | 1.22  | 13.600 | 3.06  | 19.60 | 1.22  |      |       |
| 1.633                            | 0.61  | 7.633 | 1.22  | 13.633 | 3.06  | 19.63 | 0.92  |      |       |
| 1.667                            | 0.61  | 7.667 | 1.22  | 13.667 | 3.06  | 19.67 | 0.92  |      |       |
| 1.700                            | 0.61  | 7.700 | 1.22  | 13.700 | 3.06  | 19.70 | 0.92  |      |       |
| 1.733                            | 0.61  | 7.733 | 1.22  | 13.733 | 3.06  | 19.73 | 0.92  |      |       |
| 1.767                            | 0.61  | 7.767 | 1.22  | 13.767 | 3.06  | 19.77 | 0.92  |      |       |
| 1.800                            | 0.61  | 7.800 | 1.22  | 13.800 | 3.06  | 19.80 | 0.92  |      |       |
| 1.833                            | 0.61  | 7.833 | 1.22  | 13.833 | 3.06  | 19.83 | 1.22  |      |       |
| 1.867                            | 0.61  | 7.867 | 1.22  | 13.867 | 3.06  | 19.87 | 1.22  |      |       |
| 1.900                            | 0.61  | 7.900 | 1.22  | 13.900 | 3.06  | 19.90 | 1.22  |      |       |
| 1.933                            | 0.61  | 7.933 | 1.22  | 13.933 | 3.06  | 19.93 | 1.22  |      |       |
| 1.967                            | 0.61  | 7.967 | 1.22  | 13.967 | 3.06  | 19.97 | 1.22  |      |       |
| 2.000                            | 0.61  | 8.000 | 1.22  | 14.000 | 3.06  | 20.00 | 1.22  |      |       |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 2.033 | 0.61 | 8.033  | 1.84  | 14.033 | 1.84 | 20.03 | 0.92 |
| 2.067 | 0.61 | 8.067  | 1.84  | 14.067 | 1.84 | 20.07 | 0.92 |
| 2.100 | 0.61 | 8.100  | 1.84  | 14.100 | 1.84 | 20.10 | 0.92 |
| 2.133 | 0.61 | 8.133  | 1.84  | 14.133 | 1.84 | 20.13 | 0.92 |
| 2.167 | 0.61 | 8.167  | 1.84  | 14.167 | 1.84 | 20.17 | 0.92 |
| 2.200 | 0.61 | 8.200  | 1.84  | 14.200 | 1.84 | 20.20 | 0.92 |
| 2.233 | 0.61 | 8.233  | 1.84  | 14.233 | 1.84 | 20.23 | 0.92 |
| 2.267 | 0.61 | 8.267  | 1.84  | 14.267 | 1.84 | 20.27 | 0.92 |
| 2.300 | 0.61 | 8.300  | 1.84  | 14.300 | 1.84 | 20.30 | 0.92 |
| 2.333 | 0.61 | 8.333  | 1.84  | 14.333 | 1.84 | 20.33 | 0.92 |
| 2.367 | 0.61 | 8.367  | 1.84  | 14.367 | 1.84 | 20.37 | 0.92 |
| 2.400 | 0.61 | 8.400  | 1.84  | 14.400 | 1.84 | 20.40 | 0.92 |
| 2.433 | 0.61 | 8.433  | 1.84  | 14.433 | 1.84 | 20.43 | 0.61 |
| 2.467 | 0.61 | 8.467  | 1.84  | 14.467 | 1.84 | 20.47 | 0.61 |
| 2.500 | 0.61 | 8.500  | 1.84  | 14.500 | 1.84 | 20.50 | 0.61 |
| 2.533 | 0.61 | 8.533  | 1.84  | 14.533 | 1.84 | 20.53 | 0.61 |
| 2.567 | 0.61 | 8.567  | 1.84  | 14.567 | 1.84 | 20.57 | 0.61 |
| 2.600 | 0.61 | 8.600  | 1.84  | 14.600 | 1.84 | 20.60 | 0.61 |
| 2.633 | 0.61 | 8.633  | 1.84  | 14.633 | 1.84 | 20.63 | 0.92 |
| 2.667 | 0.61 | 8.667  | 1.84  | 14.667 | 1.84 | 20.67 | 0.92 |
| 2.700 | 0.61 | 8.700  | 1.84  | 14.700 | 1.84 | 20.70 | 0.92 |
| 2.733 | 0.61 | 8.733  | 1.84  | 14.733 | 1.84 | 20.73 | 0.92 |
| 2.767 | 0.61 | 8.767  | 1.84  | 14.767 | 1.84 | 20.77 | 0.92 |
| 2.800 | 0.61 | 8.800  | 1.84  | 14.800 | 1.84 | 20.80 | 0.92 |
| 2.833 | 0.61 | 8.833  | 1.84  | 14.833 | 1.84 | 20.83 | 0.92 |
| 2.867 | 0.61 | 8.867  | 1.84  | 14.867 | 1.84 | 20.87 | 0.92 |
| 2.900 | 0.61 | 8.900  | 1.84  | 14.900 | 1.84 | 20.90 | 0.92 |
| 2.933 | 0.61 | 8.933  | 1.84  | 14.933 | 1.84 | 20.93 | 0.92 |
| 2.967 | 0.61 | 8.967  | 1.84  | 14.967 | 1.84 | 20.97 | 0.92 |
| 3.000 | 0.61 | 9.000  | 1.84  | 15.000 | 1.84 | 21.00 | 0.92 |
| 3.033 | 0.61 | 9.033  | 1.84  | 15.033 | 1.53 | 21.03 | 0.61 |
| 3.067 | 0.61 | 9.067  | 1.84  | 15.067 | 1.53 | 21.07 | 0.61 |
| 3.100 | 0.61 | 9.100  | 1.84  | 15.100 | 1.53 | 21.10 | 0.61 |
| 3.133 | 0.61 | 9.133  | 1.84  | 15.133 | 1.53 | 21.13 | 0.61 |
| 3.167 | 0.61 | 9.167  | 1.84  | 15.167 | 1.53 | 21.17 | 0.61 |
| 3.200 | 0.61 | 9.200  | 1.84  | 15.200 | 1.53 | 21.20 | 0.61 |
| 3.233 | 0.61 | 9.233  | 1.84  | 15.233 | 1.53 | 21.23 | 0.92 |
| 3.267 | 0.61 | 9.267  | 1.84  | 15.267 | 1.53 | 21.27 | 0.92 |
| 3.300 | 0.61 | 9.300  | 1.84  | 15.300 | 1.53 | 21.30 | 0.92 |
| 3.333 | 0.61 | 9.333  | 1.84  | 15.333 | 1.53 | 21.33 | 0.92 |
| 3.367 | 0.61 | 9.367  | 1.84  | 15.367 | 1.53 | 21.37 | 0.92 |
| 3.400 | 0.61 | 9.400  | 1.84  | 15.400 | 1.53 | 21.40 | 0.92 |
| 3.433 | 0.61 | 9.433  | 1.84  | 15.433 | 1.53 | 21.43 | 0.61 |
| 3.467 | 0.61 | 9.467  | 1.84  | 15.467 | 1.53 | 21.47 | 0.61 |
| 3.500 | 0.61 | 9.500  | 1.84  | 15.500 | 1.53 | 21.50 | 0.61 |
| 3.533 | 0.61 | 9.533  | 1.84  | 15.533 | 1.53 | 21.53 | 0.61 |
| 3.567 | 0.61 | 9.567  | 1.84  | 15.567 | 1.53 | 21.57 | 0.61 |
| 3.600 | 0.61 | 9.600  | 1.84  | 15.600 | 1.53 | 21.60 | 0.61 |
| 3.633 | 0.61 | 9.633  | 1.84  | 15.633 | 1.53 | 21.63 | 0.92 |
| 3.667 | 0.61 | 9.667  | 1.84  | 15.667 | 1.53 | 21.67 | 0.92 |
| 3.700 | 0.61 | 9.700  | 1.84  | 15.700 | 1.53 | 21.70 | 0.92 |
| 3.733 | 0.61 | 9.733  | 1.84  | 15.733 | 1.53 | 21.73 | 0.92 |
| 3.767 | 0.61 | 9.767  | 1.84  | 15.767 | 1.53 | 21.77 | 0.92 |
| 3.800 | 0.61 | 9.800  | 1.84  | 15.800 | 1.53 | 21.80 | 0.92 |
| 3.833 | 0.61 | 9.833  | 1.84  | 15.833 | 1.53 | 21.83 | 0.61 |
| 3.867 | 0.61 | 9.867  | 1.84  | 15.867 | 1.53 | 21.87 | 0.61 |
| 3.900 | 0.61 | 9.900  | 1.84  | 15.900 | 1.53 | 21.90 | 0.61 |
| 3.933 | 0.61 | 9.933  | 1.84  | 15.933 | 1.53 | 21.93 | 0.61 |
| 3.967 | 0.61 | 9.967  | 1.84  | 15.967 | 1.53 | 21.97 | 0.61 |
| 4.000 | 0.61 | 10.000 | 1.84  | 16.000 | 1.53 | 22.00 | 0.61 |
| 4.033 | 1.22 | 10.033 | 3.37  | 16.033 | 1.53 | 22.03 | 0.61 |
| 4.067 | 1.22 | 10.067 | 3.37  | 16.067 | 1.53 | 22.07 | 0.61 |
| 4.100 | 1.22 | 10.100 | 3.37  | 16.100 | 1.53 | 22.10 | 0.61 |
| 4.133 | 1.22 | 10.133 | 3.37  | 16.133 | 1.53 | 22.13 | 0.61 |
| 4.167 | 1.22 | 10.167 | 3.37  | 16.167 | 1.53 | 22.17 | 0.61 |
| 4.200 | 1.22 | 10.200 | 3.37  | 16.200 | 1.53 | 22.20 | 0.61 |
| 4.233 | 1.22 | 10.233 | 3.37  | 16.233 | 1.53 | 22.23 | 0.92 |
| 4.267 | 1.22 | 10.267 | 3.37  | 16.267 | 1.53 | 22.27 | 0.92 |
| 4.300 | 1.22 | 10.300 | 3.37  | 16.300 | 1.53 | 22.30 | 0.92 |
| 4.333 | 1.22 | 10.333 | 3.37  | 16.333 | 1.53 | 22.33 | 0.92 |
| 4.367 | 1.22 | 10.367 | 3.37  | 16.367 | 1.53 | 22.37 | 0.92 |
| 4.400 | 1.22 | 10.400 | 3.37  | 16.400 | 1.53 | 22.40 | 0.92 |
| 4.433 | 1.22 | 10.433 | 3.37  | 16.433 | 1.53 | 22.43 | 0.61 |
| 4.467 | 1.22 | 10.467 | 3.37  | 16.467 | 1.53 | 22.47 | 0.61 |
| 4.500 | 1.22 | 10.500 | 3.37  | 16.500 | 1.53 | 22.50 | 0.61 |
| 4.533 | 1.22 | 10.533 | 3.37  | 16.533 | 1.53 | 22.53 | 0.61 |
| 4.567 | 1.22 | 10.567 | 3.37  | 16.567 | 1.53 | 22.57 | 0.61 |
| 4.600 | 1.22 | 10.600 | 3.37  | 16.600 | 1.53 | 22.60 | 0.61 |
| 4.633 | 1.22 | 10.633 | 3.37  | 16.633 | 1.53 | 22.63 | 0.92 |
| 4.667 | 1.22 | 10.667 | 3.37  | 16.667 | 1.53 | 22.67 | 0.92 |
| 4.700 | 1.22 | 10.700 | 3.37  | 16.700 | 1.53 | 22.70 | 0.92 |
| 4.733 | 1.22 | 10.733 | 3.37  | 16.733 | 1.53 | 22.73 | 0.92 |
| 4.767 | 1.22 | 10.767 | 3.37  | 16.767 | 1.53 | 22.77 | 0.92 |
| 4.800 | 1.22 | 10.800 | 3.37  | 16.800 | 1.53 | 22.80 | 0.92 |
| 4.833 | 1.22 | 10.833 | 3.37  | 16.833 | 0.92 | 22.83 | 0.61 |
| 4.867 | 1.22 | 10.867 | 3.37  | 16.867 | 0.92 | 22.87 | 0.61 |
| 4.900 | 1.22 | 10.900 | 3.37  | 16.900 | 0.92 | 22.90 | 0.61 |
| 4.933 | 1.22 | 10.933 | 3.37  | 16.933 | 0.92 | 22.93 | 0.61 |
| 4.967 | 1.22 | 10.967 | 3.37  | 16.967 | 0.92 | 22.97 | 0.61 |
| 5.000 | 1.22 | 11.000 | 3.37  | 17.000 | 0.92 | 23.00 | 0.61 |
| 5.033 | 1.22 | 11.033 | 4.59  | 17.033 | 0.92 | 23.03 | 0.61 |
| 5.067 | 1.22 | 11.067 | 4.59  | 17.067 | 0.92 | 23.07 | 0.61 |
| 5.100 | 1.22 | 11.100 | 4.59  | 17.100 | 0.92 | 23.10 | 0.61 |
| 5.133 | 1.22 | 11.133 | 4.59  | 17.133 | 0.92 | 23.13 | 0.61 |
| 5.167 | 1.22 | 11.167 | 4.59  | 17.167 | 0.92 | 23.17 | 0.61 |
| 5.200 | 1.22 | 11.200 | 4.59  | 17.200 | 0.92 | 23.20 | 0.61 |
| 5.233 | 1.22 | 11.233 | 6.73  | 17.233 | 1.22 | 23.23 | 0.61 |
| 5.267 | 1.22 | 11.267 | 6.73  | 17.267 | 1.22 | 23.27 | 0.61 |
| 5.300 | 1.22 | 11.300 | 6.73  | 17.300 | 1.22 | 23.30 | 0.61 |
| 5.333 | 1.22 | 11.333 | 6.73  | 17.333 | 0.92 | 23.33 | 0.61 |
| 5.367 | 1.22 | 11.367 | 6.73  | 17.367 | 1.22 | 23.37 | 0.61 |
| 5.400 | 1.22 | 11.400 | 6.74  | 17.400 | 1.22 | 23.40 | 0.61 |
| 5.433 | 1.22 | 11.433 | 16.22 | 17.433 | 0.92 | 23.43 | 0.92 |
| 5.467 | 1.22 | 11.467 | 16.22 | 17.467 | 0.92 | 23.47 | 0.92 |
| 5.500 | 1.22 | 11.500 | 16.22 | 17.500 | 0.92 | 23.50 | 0.92 |
| 5.533 | 1.22 | 11.533 | 16.22 | 17.533 | 0.92 | 23.53 | 0.92 |
| 5.567 | 1.22 | 11.567 | 16.22 | 17.567 | 0.92 | 23.57 | 0.92 |
| 5.600 | 1.22 | 11.600 | 16.24 | 17.600 | 0.92 | 23.60 | 0.92 |
| 5.633 | 1.22 | 11.633 | 33.66 | 17.633 | 1.22 | 23.63 | 0.61 |
| 5.667 | 1.22 | 11.667 | 33.66 | 17.667 | 1.22 | 23.67 | 0.61 |
| 5.700 | 1.22 | 11.700 | 33.66 | 17.700 | 1.22 | 23.70 | 0.61 |
| 5.733 | 1.22 | 11.733 | 33.66 | 17.733 | 1.22 | 23.73 | 0.61 |
| 5.767 | 1.22 | 11.767 | 33.66 | 17.767 | 1.22 | 23.77 | 0.61 |
| 5.800 | 1.22 | 11.800 | 68.85 | 17.800 | 0.92 | 23.80 | 0.61 |
| 5.833 | 1.22 | 11.833 | 68.85 | 17.833 | 0.92 | 23.83 | 0.61 |
| 5.867 | 1.22 | 11.867 | 68.85 | 17.867 | 0.92 | 23.87 | 0.61 |
| 5.900 | 1.22 | 11.900 | 68.85 | 17.900 | 0.92 | 23.90 | 0.61 |
| 5.933 | 1.22 | 11.933 | 68.85 | 17.933 | 0.92 | 23.93 | 0.61 |
| 5.967 | 1.22 | 11.967 | 68.85 | 17.967 | 0.92 | 23.97 | 0.61 |
| 6.000 | 1.22 | 12.000 | 68.77 | 18.000 | 0.92 | 24.00 | 0.61 |

RUNOFF COEFFICIENT = 0.532

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0041 )   |              |                |                |              |
|--------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3          |              |                |                |              |
| ID1= 1 ( 0403 ):   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| + ID2= 2 ( 0404 ): | 2.87         | 0.212          | 12.07          | 25.96        |
| =====              |              |                |                |              |
| ID = 3 ( 0041 ):   | 3.72         | 0.280          | 12.07          | 27.46        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD ( 0042 )   |              |                |                |              |
|--------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3          |              |                |                |              |
| ID1= 1 ( 0040 ):   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| + ID2= 2 ( 0041 ): | 13.55        | 0.972          | 12.07          | 25.89        |
| =====              |              |                |                |              |
| ID = 3 ( 0042 ):   | 3.72         | 0.280          | 12.07          | 27.46        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR( 0202 ) |                    |                  |                    |  |
|-------------------|--------------------|------------------|--------------------|--|
| IN= 2--> OUT= 1   |                    |                  |                    |  |
| DT= 2.0 min       |                    |                  |                    |  |
| OVERFLOW IS OFF   |                    |                  |                    |  |
| OUTFLOW<br>(cms)  | STORAGE<br>(ha.m.) | OUTFLOW<br>(cms) | STORAGE<br>(ha.m.) |  |
| 0.0000            | 0.0000             | 1.2780           | 0.5195             |  |
| 0.0070            | 0.0918             | 1.4910           | 0.6170             |  |
| 0.0500            | 0.1672             | 1.7350           | 0.7524             |  |
| 0.1740            | 0.2483             | 2.7110           | 0.8941             |  |
| 0.6720            | 0.3349             | 5.2440           | 1.1182             |  |
| 1.0220            | 0.4254             | 0.0000           | 0.0000             |  |

| INFLOW : ID= 2 ( 0042 ) | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
|-------------------------|--------------|----------------|----------------|--------------|
| OUTFLOW: ID= 1 ( 0202 ) | 17.270       | 1.252          | 12.07          | 26.23        |
|                         | 17.270       | 0.151          | 12.93          | 24.17        |

PEAK FLOW REDUCTION [Qout/Qin](%)= 12.09  
TIME SHIFT OF PEAK FLOW (min)= 52.00  
MAXIMUM STORAGE USED (ha.m.)= 0.2335

| ADD HYD ( 0080 )   |              |                |                |              |
|--------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3          |              |                |                |              |
| ID1= 1 ( 0202 ):   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| + ID2= 2 ( 0033 ): | 17.27        | 0.151          | 12.93          | 24.17        |
| =====              |              |                |                |              |
| ID = 3 ( 0080 ):   | 14.33        | 0.250          | 12.33          | 19.57        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U A A A A L  
V V I SS U U A A L  
VV I SSSSS UUUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM  
0 0 T T H H Y Y M M 0 0  
0 0 T T H H Y Y M M 0 0  
000 T T H H Y Y M M 000

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#### \*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\79f5670a-9de1-4c10-b947-49e425753c83\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\XH5\77c50d1d-6a10-4f32-be40-83fde9009059\79f5670a-9de1-4c10-b947-49e425753c83\sc

DATE: 09/21/2025

TIME: 03:01:41

USER:

COMMENTS:

\*\* SIMULATION : 50yr 24hr 12min SCS Type II ( \*\*

|                  |                                                         |
|------------------|---------------------------------------------------------|
| MASS STORM       | Filename: C:\Users\hfaulkner\AppData<br>ata\Local\Temp\ |
|                  | 732e9928-e126-4c89-9ccf-fd4c260976d9\07e494e7           |
| Ptotal=122.10 mm | Comments: 24-hour SCS Type-II Mass Storm Curve          |
|                  | Duration of storm = 24.00 hrs                           |
|                  | Mass curve time step = 12.00 min                        |

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.00        | 1.22          | 6.00        | 2.44          | 12.00       | 24.42         | 18.00       | 1.83          |
| 0.20        | 1.22          | 6.20        | 2.44          | 12.20       | 15.26         | 18.20       | 1.83          |
| 0.40        | 1.22          | 6.40        | 2.44          | 12.40       | 10.99         | 18.40       | 2.44          |
| 0.60        | 1.22          | 6.60        | 2.44          | 12.60       | 10.38         | 18.60       | 1.83          |
| 0.80        | 1.22          | 6.80        | 2.44          | 12.80       | 7.33          | 18.80       | 1.83          |
| 1.00        | 1.22          | 7.00        | 2.44          | 13.00       | 6.10          | 19.00       | 2.44          |
| 1.20        | 1.22          | 7.20        | 2.44          | 13.20       | 6.10          | 19.20       | 1.83          |
| 1.40        | 1.22          | 7.40        | 2.44          | 13.40       | 6.10          | 19.40       | 2.44          |
| 1.60        | 1.22          | 7.60        | 2.44          | 13.60       | 6.10          | 19.60       | 1.83          |
| 1.80        | 1.22          | 7.80        | 2.44          | 13.80       | 6.11          | 19.80       | 2.44          |

|      |      |       |        |       |      |       |      |
|------|------|-------|--------|-------|------|-------|------|
| 2.00 | 1.22 | 8.00  | 3.66   | 14.00 | 3.66 | 20.00 | 1.83 |
| 2.20 | 1.22 | 8.20  | 3.66   | 14.20 | 3.66 | 20.20 | 1.83 |
| 2.40 | 1.22 | 8.40  | 3.66   | 14.40 | 3.66 | 20.40 | 1.22 |
| 2.60 | 1.22 | 8.60  | 3.66   | 14.60 | 3.66 | 20.60 | 1.83 |
| 2.80 | 1.22 | 8.80  | 3.66   | 14.80 | 3.66 | 20.80 | 1.83 |
| 3.00 | 1.22 | 9.00  | 3.66   | 15.00 | 3.05 | 21.00 | 1.22 |
| 3.20 | 1.22 | 9.20  | 3.66   | 15.20 | 3.05 | 21.20 | 1.83 |
| 3.40 | 1.22 | 9.40  | 3.66   | 15.40 | 3.05 | 21.40 | 1.22 |
| 3.60 | 1.22 | 9.60  | 3.66   | 15.60 | 3.05 | 21.60 | 1.83 |
| 3.80 | 1.22 | 9.80  | 3.66   | 15.80 | 3.05 | 21.80 | 1.22 |
| 4.00 | 2.44 | 10.00 | 6.72   | 16.00 | 3.05 | 22.00 | 1.22 |
| 4.20 | 2.44 | 10.20 | 6.72   | 16.20 | 3.05 | 22.20 | 1.83 |
| 4.40 | 2.44 | 10.40 | 6.72   | 16.40 | 3.05 | 22.40 | 1.22 |
| 4.60 | 2.44 | 10.60 | 6.72   | 16.60 | 3.05 | 22.60 | 1.83 |
| 4.80 | 2.44 | 10.80 | 6.72   | 16.80 | 1.83 | 22.80 | 1.22 |
| 5.00 | 2.44 | 11.00 | 9.16   | 17.00 | 1.83 | 23.00 | 1.22 |
| 5.20 | 2.44 | 11.20 | 13.43  | 17.20 | 2.44 | 23.20 | 1.22 |
| 5.40 | 2.44 | 11.40 | 32.36  | 17.40 | 1.83 | 23.40 | 1.83 |
| 5.60 | 2.44 | 11.60 | 67.15  | 17.60 | 2.44 | 23.60 | 1.22 |
| 5.80 | 2.44 | 11.80 | 137.36 | 17.80 | 1.83 | 23.80 | 1.22 |

| CALIB<br>NASHYD ( 0301 ) | Area<br>(ha)       | Curve Number (CN)= 81.0    |
|--------------------------|--------------------|----------------------------|
| ID= 1 DT= 2.0 min        | Ia<br>(mm)= 6.80   | # of Linear Res. (N)= 3.00 |
|                          | U.H. Tp(hrs)= 0.24 |                            |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TRANSFORMED HYETOGRAPH |               |             |               |             |               |             |               |
|------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs            | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                  | 1.22          | 6.033       | 2.44          | 12.033      | 24.42         | 18.03       | 1.83          |
| 0.067                  | 1.22          | 6.067       | 2.44          | 12.067      | 24.42         | 18.07       | 1.83          |
| 0.100                  | 1.22          | 6.100       | 2.44          | 12.100      | 24.42         | 18.10       | 1.83          |
| 0.133                  | 1.22          | 6.133       | 2.44          | 12.133      | 24.42         | 18.13       | 1.83          |
| 0.167                  | 1.22          | 6.167       | 2.44          | 12.167      | 24.42         | 18.17       | 1.83          |
| 0.200                  | 1.22          | 6.200       | 2.44          | 12.200      | 24.41         | 18.20       | 1.83          |
| 0.233                  | 1.22          | 6.233       | 2.44          | 12.233      | 15.26         | 18.23       | 1.83          |
| 0.267                  | 1.22          | 6.267       | 2.44          | 12.267      | 15.26         | 18.27       | 1.83          |
| 0.300                  | 1.22          | 6.300       | 2.44          | 12.300      | 15.26         | 18.30       | 1.83          |
| 0.333                  | 1.22          | 6.333       | 2.44          | 12.333      | 15.26         | 18.33       | 1.83          |
| 0.367                  | 1.22          | 6.367       | 2.44          | 12.367      | 15.26         | 18.37       | 1.83          |
| 0.400                  | 1.22          | 6.400       | 2.44          | 12.400      | 15.26         | 18.40       | 1.83          |
| 0.433                  | 1.22          | 6.433       | 2.44          | 12.433      | 10.99         | 18.43       | 2.44          |
| 0.467                  | 1.22          | 6.467       | 2.44          | 12.467      | 10.99         | 18.47       | 2.44          |
| 0.500                  | 1.22          | 6.500       | 2.44          | 12.500      | 10.99         | 18.50       | 2.44          |
| 0.533                  | 1.22          | 6.533       | 2.44          | 12.533      | 10.99         | 18.53       | 2.44          |
| 0.567                  | 1.22          | 6.567       | 2.44          | 12.567      | 10.99         | 18.57       | 2.44          |
| 0.600                  | 1.22          | 6.600       | 2.44          | 12.600      | 10.99         | 18.60       | 2.44          |
| 0.633                  | 1.22          | 6.633       | 2.44          | 12.633      | 10.38         | 18.63       | 1.83          |
| 0.667                  | 1.22          | 6.667       | 2.44          | 12.667      | 10.38         | 18.67       | 1.83          |
| 0.700                  | 1.22          | 6.700       | 2.44          | 12.700      | 10.38         | 18.70       | 1.83          |
| 0.733                  | 1.22          | 6.733       | 2.44          | 12.733      | 10.38         | 18.73       | 1.83          |
| 0.767                  | 1.22          | 6.767       | 2.44          | 12.767      | 10.38         | 18.77       | 1.83          |
| 0.800                  | 1.22          | 6.800       | 2.44          | 12.800      | 10.37         | 18.80       | 1.83          |
| 0.833                  | 1.22          | 6.833       | 2.44          | 12.833      | 7.33          | 18.83       | 1.83          |
| 0.867                  | 1.22          | 6.867       | 2.44          | 12.867      | 7.33          | 18.87       | 1.83          |
| 0.900                  | 1.22          | 6.900       | 2.44          | 12.900      | 7.33          | 18.90       | 1.83          |
| 0.933                  | 1.22          | 6.933       | 2.44          | 12.933      | 7.33          | 18.93       | 1.83          |
| 0.967                  | 1.22          | 6.967       | 2.44          | 12.967      | 7.33          | 18.97       | 1.83          |
| 1.000                  | 1.22          | 7.000       | 2.44          | 13.000      | 7.32          | 19.00       | 1.83          |
| 1.033                  | 1.22          | 7.033       | 2.44          | 13.033      | 6.10          | 19.03       | 2.44          |
| 1.067                  | 1.22          | 7.067       | 2.44          | 13.067      | 6.10          | 19.07       | 2.44          |
| 1.100                  | 1.22          | 7.100       | 2.44          | 13.100      | 6.10          | 19.10       | 2.44          |
| 1.133                  | 1.22          | 7.133       | 2.44          | 13.133      | 6.10          | 19.13       | 2.44          |
| 1.167                  | 1.22          | 7.167       | 2.44          | 13.167      | 6.10          | 19.17       | 2.44          |
| 1.200                  | 1.22          | 7.200       | 2.44          | 13.200      | 6.11          | 19.20       | 2.44          |
| 1.233                  | 1.22          | 7.233       | 2.44          | 13.233      | 6.10          | 19.23       | 1.83          |
| 1.267                  | 1.22          | 7.267       | 2.44          | 13.267      | 6.10          | 19.27       | 1.83          |
| 1.300                  | 1.22          | 7.300       | 2.44          | 13.300      | 6.10          | 19.30       | 1.83          |
| 1.333                  | 1.22          | 7.333       | 2.44          | 13.333      | 6.10          | 19.33       | 1.83          |
| 1.367                  | 1.22          | 7.367       | 2.44          | 13.367      | 6.10          | 19.37       | 1.83          |
| 1.400                  | 1.22          | 7.400       | 2.44          | 13.400      | 6.11          | 19.40       | 1.83          |
| 1.433                  | 1.22          | 7.433       | 2.44          | 13.433      | 6.10          | 19.43       | 2.44          |
| 1.467                  | 1.22          | 7.467       | 2.44          | 13.467      | 6.10          | 19.47       | 2.44          |
| 1.500                  | 1.22          | 7.500       | 2.44          | 13.500      | 6.10          | 19.50       | 2.44          |
| 1.533                  | 1.22          | 7.533       | 2.44          | 13.533      | 6.10          | 19.53       | 2.44          |
| 1.567                  | 1.22          | 7.567       | 2.44          | 13.567      | 6.10          | 19.57       | 2.44          |
| 1.600                  | 1.22          | 7.600       | 2.44          | 13.600      | 6.11          | 19.60       | 2.44          |
| 1.633                  | 1.22          | 7.633       | 2.44          | 13.633      | 6.10          | 19.63       | 1.83          |
| 1.667                  | 1.22          | 7.667       | 2.44          | 13.667      | 6.10          | 19.67       | 1.83          |
| 1.700                  | 1.22          | 7.700       | 2.44          | 13.700      | 6.10          | 19.70       | 1.83          |
| 1.733                  | 1.22          | 7.733       | 2.44          | 13.733      | 6.10          | 19.73       | 1.83          |
| 1.767                  | 1.22          | 7.767       | 2.44          | 13.767      | 6.10          | 19.77       | 1.83          |
| 1.800                  | 1.22          | 7.800       | 2.44          | 13.800      | 6.11          | 19.80       | 1.83          |
| 1.833                  | 1.22          | 7.833       | 2.44          | 13.833      | 6.11          | 19.83       | 2.44          |
| 1.867                  | 1.22          | 7.867       | 2.44          | 13.867      | 6.11          | 19.87       | 2.44          |
| 1.900                  | 1.22          | 7.900       | 2.44          | 13.900      | 6.11          | 19.90       | 2.44          |
| 1.933                  | 1.22          | 7.933       | 2.44          | 13.933      | 6.11          | 19.93       | 2.44          |
| 1.967                  | 1.22          | 7.967       | 2.44          | 13.967      | 6.11          | 19.97       | 2.44          |
| 2.000                  | 1.22          | 8.000       | 2.44          | 14.000      | 6.10          | 20.00       | 2.44          |
| 2.033                  | 1.22          | 8.033       | 3.66          | 14.033      | 3.66          | 20.03       | 1.83          |
| 2.067                  | 1.22          | 8.067       | 3.66          | 14.067      | 3.66          | 20.07       | 1.83          |
| 2.100                  | 1.22          | 8.100       | 3.66          | 14.100      | 3.66          | 20.10       | 1.83          |
| 2.133                  | 1.22          | 8.133       | 3.66          | 14.133      | 3.66          | 20.13       | 1.83          |
| 2.167                  | 1.22          | 8.167       | 3.66          | 14.167      | 3.66          | 20.17       | 1.83          |
| 2.200                  | 1.22          | 8.200       | 3.66          | 14.200      | 3.66          | 20.20       | 1.83          |
| 2.233                  | 1.22          | 8.233       | 3.66          | 14.233      | 3.66          | 20.23       | 1.83          |
| 2.267                  | 1.22          | 8.267       | 3.66          | 14.267      | 3.66          | 20.27       | 1.83          |
| 2.300                  | 1.22          | 8.300       | 3.66          | 14.300      | 3.66          | 20.30       | 1.83          |
| 2.333                  | 1.22          | 8.333       | 3.66          | 14.333      | 3.66          | 20.33       | 1.83          |
| 2.367                  | 1.22          | 8.367       | 3.66          | 14.367      | 3.66          | 20.37       | 1.83          |
| 2.400                  | 1.22          | 8.400       | 3.66          | 14.400      | 3.66          | 20.40       | 1.83          |
| 2.433                  | 1.22          | 8.433       | 3.66          | 14.433      | 3.66          | 20.43       | 1.22          |
| 2.467                  | 1.22          | 8.467       | 3.66          | 14.467      | 3.66          | 20.47       | 1.22          |
| 2.500                  | 1.22          | 8.500       | 3.66          | 14.500      | 3.66          | 20.50       | 1.22          |
| 2.533                  | 1.22          | 8.533       | 3.66          | 14.533      | 3.66          | 20.53       | 1.22          |
| 2.567                  | 1.22          | 8.567       | 3.66          | 14.567      | 3.66          | 20.57       | 1.22          |
| 2.600                  | 1.22          | 8.600       | 3.66          | 14.600      | 3.66          | 20.60       | 1.22          |
| 2.633                  | 1.22          | 8.633       | 3.66          | 14.633      | 3.66          | 20.63       | 1.83          |
| 2.667                  | 1.22          | 8.667       | 3.66          | 14.667      | 3.66          | 20.67       | 1.83          |
| 2.700                  | 1.22          | 8.700       | 3.66          | 14.700      | 3.66          | 20.70       | 1.83          |
| 2.733                  | 1.22          | 8.733       | 3.66          | 14.733      | 3.66          | 20.73       | 1.83          |
| 2.767                  | 1.22          | 8.767       | 3.66          | 14.767      | 3.66          | 20.77       | 1.83          |
| 2.800                  | 1.22          | 8.800       | 3.66          | 14.800      | 3.66          | 20.80       | 1.83          |
| 2.833                  | 1.22          | 8.833       | 3.66          | 14.833      | 3.66          | 20.83       | 1.83          |
| 2.867                  | 1.22          | 8.867       | 3.66          | 14.867      | 3.66          | 20.87       | 1.83          |
| 2.900                  | 1.22          | 8.900       | 3.66          | 14.900      | 3.66          | 20.90       | 1.83          |
| 2.933                  | 1.22          | 8.933       | 3.66          | 14.933      | 3.66          | 20.93       | 1.83          |
| 2.967                  | 1.22          | 8.967       | 3.66          | 14.967      | 3.66          | 20.97       | 1.83          |
| 3.000                  | 1.22          | 9.000       | 3.66          | 15.000      | 3.66          | 21.00       | 1.83          |
| 3.033                  | 1.22          | 9.033       | 3.66          | 15.033      | 3.65          | 21.03       | 1.22          |
| 3.067                  | 1.22          | 9.067       | 3.66          | 15.067      | 3.65          | 21.07       | 1.22          |
| 3.100                  | 1.22          | 9.100       | 3.66          | 15.100      | 3.65          | 21.10       | 1.22          |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 3.133 | 1.22 | 9.133  | 3.66   | 15.133 | 3.05 | 21.13 | 1.22 |
| 3.167 | 1.22 | 9.167  | 3.66   | 15.167 | 3.05 | 21.17 | 1.22 |
| 3.200 | 1.22 | 9.200  | 3.66   | 15.200 | 3.05 | 21.20 | 1.22 |
| 3.233 | 1.22 | 9.233  | 3.66   | 15.233 | 3.05 | 21.23 | 1.83 |
| 3.267 | 1.22 | 9.267  | 3.66   | 15.267 | 3.05 | 21.27 | 1.83 |
| 3.300 | 1.22 | 9.300  | 3.66   | 15.300 | 3.05 | 21.30 | 1.83 |
| 3.333 | 1.22 | 9.333  | 3.66   | 15.333 | 3.05 | 21.33 | 1.83 |
| 3.367 | 1.22 | 9.367  | 3.66   | 15.367 | 3.05 | 21.37 | 1.83 |
| 3.400 | 1.22 | 9.400  | 3.66   | 15.400 | 3.05 | 21.40 | 1.83 |
| 3.433 | 1.22 | 9.433  | 3.66   | 15.433 | 3.05 | 21.43 | 1.22 |
| 3.467 | 1.22 | 9.467  | 3.66   | 15.467 | 3.05 | 21.47 | 1.22 |
| 3.500 | 1.22 | 9.500  | 3.66   | 15.500 | 3.05 | 21.50 | 1.22 |
| 3.533 | 1.22 | 9.533  | 3.66   | 15.533 | 3.05 | 21.53 | 1.22 |
| 3.567 | 1.22 | 9.567  | 3.66   | 15.567 | 3.05 | 21.57 | 1.22 |
| 3.600 | 1.22 | 9.600  | 3.66   | 15.600 | 3.05 | 21.60 | 1.22 |
| 3.633 | 1.22 | 9.633  | 3.66   | 15.633 | 3.05 | 21.63 | 1.83 |
| 3.667 | 1.22 | 9.667  | 3.66   | 15.667 | 3.05 | 21.67 | 1.83 |
| 3.700 | 1.22 | 9.700  | 3.66   | 15.700 | 3.05 | 21.70 | 1.83 |
| 3.733 | 1.22 | 9.733  | 3.66   | 15.733 | 3.05 | 21.73 | 1.83 |
| 3.767 | 1.22 | 9.767  | 3.66   | 15.767 | 3.05 | 21.77 | 1.83 |
| 3.800 | 1.22 | 9.800  | 3.66   | 15.800 | 3.05 | 21.80 | 1.83 |
| 3.833 | 1.22 | 9.833  | 3.66   | 15.833 | 3.05 | 21.83 | 1.22 |
| 3.867 | 1.22 | 9.867  | 3.66   | 15.867 | 3.05 | 21.87 | 1.22 |
| 3.900 | 1.22 | 9.900  | 3.66   | 15.900 | 3.05 | 21.90 | 1.22 |
| 3.933 | 1.22 | 9.933  | 3.66   | 15.933 | 3.05 | 21.93 | 1.22 |
| 3.967 | 1.22 | 9.967  | 3.66   | 15.967 | 3.05 | 21.97 | 1.22 |
| 4.000 | 1.22 | 10.000 | 3.66   | 16.000 | 3.05 | 22.00 | 1.22 |
| 4.033 | 2.44 | 10.033 | 6.72   | 16.033 | 3.05 | 22.03 | 1.22 |
| 4.067 | 2.44 | 10.067 | 6.72   | 16.067 | 3.05 | 22.07 | 1.22 |
| 4.100 | 2.44 | 10.100 | 6.72   | 16.100 | 3.05 | 22.10 | 1.22 |
| 4.133 | 2.44 | 10.133 | 6.72   | 16.133 | 3.05 | 22.13 | 1.22 |
| 4.167 | 2.44 | 10.167 | 6.72   | 16.167 | 3.05 | 22.17 | 1.22 |
| 4.200 | 2.44 | 10.200 | 6.72   | 16.200 | 3.05 | 22.20 | 1.22 |
| 4.233 | 2.44 | 10.233 | 6.72   | 16.233 | 3.05 | 22.23 | 1.83 |
| 4.267 | 2.44 | 10.267 | 6.72   | 16.267 | 3.05 | 22.27 | 1.83 |
| 4.300 | 2.44 | 10.300 | 6.72   | 16.300 | 3.05 | 22.30 | 1.83 |
| 4.333 | 2.44 | 10.333 | 6.72   | 16.333 | 3.05 | 22.33 | 1.83 |
| 4.367 | 2.44 | 10.367 | 6.72   | 16.367 | 3.05 | 22.37 | 1.83 |
| 4.400 | 2.44 | 10.400 | 6.72   | 16.400 | 3.05 | 22.40 | 1.83 |
| 4.433 | 2.44 | 10.433 | 6.72   | 16.433 | 3.05 | 22.43 | 1.22 |
| 4.467 | 2.44 | 10.467 | 6.72   | 16.467 | 3.05 | 22.47 | 1.22 |
| 4.500 | 2.44 | 10.500 | 6.72   | 16.500 | 3.05 | 22.50 | 1.22 |
| 4.533 | 2.44 | 10.533 | 6.72   | 16.533 | 3.05 | 22.53 | 1.22 |
| 4.567 | 2.44 | 10.567 | 6.72   | 16.567 | 3.05 | 22.57 | 1.22 |
| 4.600 | 2.44 | 10.600 | 6.72   | 16.600 | 3.05 | 22.60 | 1.22 |
| 4.633 | 2.44 | 10.633 | 6.72   | 16.633 | 3.05 | 22.63 | 1.83 |
| 4.667 | 2.44 | 10.667 | 6.72   | 16.667 | 3.05 | 22.67 | 1.83 |
| 4.700 | 2.44 | 10.700 | 6.72   | 16.700 | 3.05 | 22.70 | 1.83 |
| 4.733 | 2.44 | 10.733 | 6.72   | 16.733 | 3.05 | 22.73 | 1.83 |
| 4.767 | 2.44 | 10.767 | 6.72   | 16.767 | 3.05 | 22.77 | 1.83 |
| 4.800 | 2.44 | 10.800 | 6.72   | 16.800 | 3.05 | 22.80 | 1.83 |
| 4.833 | 2.44 | 10.833 | 6.72   | 16.833 | 1.83 | 22.83 | 1.22 |
| 4.867 | 2.44 | 10.867 | 6.72   | 16.867 | 1.83 | 22.87 | 1.22 |
| 4.900 | 2.44 | 10.900 | 6.72   | 16.900 | 1.83 | 22.90 | 1.22 |
| 4.933 | 2.44 | 10.933 | 6.72   | 16.933 | 1.83 | 22.93 | 1.22 |
| 4.967 | 2.44 | 10.967 | 6.72   | 16.967 | 1.83 | 22.97 | 1.22 |
| 5.000 | 2.44 | 11.000 | 6.72   | 17.000 | 1.83 | 23.00 | 1.22 |
| 5.033 | 2.44 | 11.033 | 9.16   | 17.033 | 1.83 | 23.03 | 1.22 |
| 5.067 | 2.44 | 11.067 | 9.16   | 17.067 | 1.83 | 23.07 | 1.22 |
| 5.100 | 2.44 | 11.100 | 9.16   | 17.100 | 1.83 | 23.10 | 1.22 |
| 5.133 | 2.44 | 11.133 | 9.16   | 17.133 | 1.83 | 23.13 | 1.22 |
| 5.167 | 2.44 | 11.167 | 9.16   | 17.167 | 1.83 | 23.17 | 1.22 |
| 5.200 | 2.44 | 11.200 | 9.16   | 17.200 | 1.83 | 23.20 | 1.22 |
| 5.233 | 2.44 | 11.233 | 13.43  | 17.233 | 2.44 | 23.23 | 1.22 |
| 5.267 | 2.44 | 11.267 | 13.43  | 17.267 | 2.44 | 23.27 | 1.22 |
| 5.300 | 2.44 | 11.300 | 13.43  | 17.300 | 2.44 | 23.30 | 1.22 |
| 5.333 | 2.44 | 11.333 | 13.43  | 17.333 | 2.44 | 23.33 | 1.22 |
| 5.367 | 2.44 | 11.367 | 13.43  | 17.367 | 2.44 | 23.37 | 1.22 |
| 5.400 | 2.44 | 11.400 | 13.45  | 17.400 | 2.44 | 23.40 | 1.22 |
| 5.433 | 2.44 | 11.433 | 32.36  | 17.433 | 1.83 | 23.43 | 1.83 |
| 5.467 | 2.44 | 11.467 | 32.36  | 17.467 | 1.83 | 23.47 | 1.83 |
| 5.500 | 2.44 | 11.500 | 32.36  | 17.500 | 1.83 | 23.50 | 1.83 |
| 5.533 | 2.44 | 11.533 | 32.36  | 17.533 | 1.83 | 23.53 | 1.83 |
| 5.567 | 2.44 | 11.567 | 32.36  | 17.567 | 1.83 | 23.57 | 1.83 |
| 5.600 | 2.44 | 11.600 | 32.40  | 17.600 | 1.83 | 23.60 | 1.83 |
| 5.633 | 2.44 | 11.633 | 67.16  | 17.633 | 2.44 | 23.63 | 1.22 |
| 5.667 | 2.44 | 11.667 | 67.16  | 17.667 | 2.44 | 23.67 | 1.22 |
| 5.700 | 2.44 | 11.700 | 67.16  | 17.700 | 2.44 | 23.70 | 1.22 |
| 5.733 | 2.44 | 11.733 | 67.16  | 17.733 | 2.44 | 23.73 | 1.22 |
| 5.767 | 2.44 | 11.767 | 67.16  | 17.767 | 2.44 | 23.77 | 1.22 |
| 5.800 | 2.44 | 11.800 | 67.25  | 17.800 | 2.44 | 23.80 | 1.22 |
| 5.833 | 2.44 | 11.833 | 137.36 | 17.833 | 1.83 | 23.83 | 1.22 |
| 5.867 | 2.44 | 11.867 | 137.36 | 17.867 | 1.83 | 23.87 | 1.22 |
| 5.900 | 2.44 | 11.900 | 137.36 | 17.900 | 1.83 | 23.90 | 1.22 |
| 5.933 | 2.44 | 11.933 | 137.36 | 17.933 | 1.83 | 23.93 | 1.22 |
| 5.967 | 2.44 | 11.967 | 137.36 | 17.967 | 1.83 | 23.97 | 1.22 |
| 6.000 | 2.44 | 12.000 | 137.21 | 18.000 | 1.83 | 24.00 | 1.22 |

Unit Hyd Qpeak (cms)= 0.189

PEAK FLOW (cms)= 0.201 (i)  
TIME TO PEAK (hrs)= 12.133  
RUNOFF VOLUME (mm)= 76.015  
TOTAL RAINFALL (mm)= 122.099  
RUNOFF COEFFICIENT = 0.623

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                    |                           |
|--------------------|---------------------------|
| CALIB              |                           |
| NASHYD ( 0302)     |                           |
| ID= 1 DT= 2.0 min  |                           |
| Area (ha)= 2.75    | Curve Number (CN)= 81.0   |
| Ia (mm)= 6.80      | # of Linear Res.(N)= 3.00 |
| U.H. Tp(hrs)= 0.21 |                           |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME  | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
|-------|-------|-------|-------|--------|-------|-------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033 | 1.22  | 6.033 | 2.44  | 12.033 | 24.42 | 18.03 | 1.83  |
| 0.067 | 1.22  | 6.067 | 2.44  | 12.067 | 24.42 | 18.07 | 1.83  |
| 0.100 | 1.22  | 6.100 | 2.44  | 12.100 | 24.42 | 18.10 | 1.83  |
| 0.133 | 1.22  | 6.133 | 2.44  | 12.133 | 24.42 | 18.13 | 1.83  |
| 0.167 | 1.22  | 6.167 | 2.44  | 12.167 | 24.42 | 18.17 | 1.83  |
| 0.200 | 1.22  | 6.200 | 2.44  | 12.200 | 24.41 | 18.20 | 1.83  |
| 0.233 | 1.22  | 6.233 | 2.44  | 12.233 | 15.26 | 18.23 | 1.83  |
| 0.267 | 1.22  | 6.267 | 2.44  | 12.267 | 15.26 | 18.27 | 1.83  |
| 0.300 | 1.22  | 6.300 | 2.44  | 12.300 | 15.26 | 18.30 | 1.83  |
| 0.333 | 1.22  | 6.333 | 2.44  | 12.333 | 15.26 | 18.33 | 1.83  |
| 0.367 | 1.22  | 6.367 | 2.44  | 12.367 | 15.26 | 18.37 | 1.83  |
| 0.400 | 1.22  | 6.400 | 2.44  | 12.400 | 15.26 | 18.40 | 1.83  |
| 0.433 | 1.22  | 6.433 | 2.44  | 12.433 | 10.99 | 18.43 | 2.44  |
| 0.467 | 1.22  | 6.467 | 2.44  | 12.467 | 10.99 | 18.47 | 2.44  |
| 0.500 | 1.22  | 6.500 | 2.44  | 12.500 | 10.99 | 18.50 | 2.44  |
| 0.533 | 1.22  | 6.533 | 2.44  | 12.533 | 10.99 | 18.53 | 2.44  |

|       |      |        |      |        |       |       |      |
|-------|------|--------|------|--------|-------|-------|------|
| 0.567 | 1.22 | 6.567  | 2.44 | 12.567 | 10.99 | 18.57 | 2.44 |
| 0.600 | 1.22 | 6.600  | 2.44 | 12.600 | 10.99 | 18.60 | 2.44 |
| 0.633 | 1.22 | 6.633  | 2.44 | 12.633 | 10.38 | 18.63 | 1.83 |
| 0.667 | 1.22 | 6.667  | 2.44 | 12.667 | 10.38 | 18.67 | 1.83 |
| 0.700 | 1.22 | 6.700  | 2.44 | 12.700 | 10.38 | 18.70 | 1.83 |
| 0.733 | 1.22 | 6.733  | 2.44 | 12.733 | 10.38 | 18.73 | 1.83 |
| 0.767 | 1.22 | 6.767  | 2.44 | 12.767 | 10.38 | 18.77 | 1.83 |
| 0.800 | 1.22 | 6.800  | 2.44 | 12.800 | 10.37 | 18.80 | 1.83 |
| 0.833 | 1.22 | 6.833  | 2.44 | 12.833 | 7.33  | 18.83 | 1.83 |
| 0.867 | 1.22 | 6.867  | 2.44 | 12.867 | 7.33  | 18.87 | 1.83 |
| 0.900 | 1.22 | 6.900  | 2.44 | 12.900 | 7.33  | 18.90 | 1.83 |
| 0.933 | 1.22 | 6.933  | 2.44 | 12.933 | 7.33  | 18.93 | 1.83 |
| 0.967 | 1.22 | 6.967  | 2.44 | 12.967 | 7.33  | 18.97 | 1.83 |
| 1.000 | 1.22 | 7.000  | 2.44 | 13.000 | 7.32  | 19.00 | 1.83 |
| 1.033 | 1.22 | 7.033  | 2.44 | 13.033 | 6.10  | 19.03 | 2.44 |
| 1.067 | 1.22 | 7.067  | 2.44 | 13.067 | 6.10  | 19.07 | 2.44 |
| 1.100 | 1.22 | 7.100  | 2.44 | 13.100 | 6.10  | 19.10 | 2.44 |
| 1.133 | 1.22 | 7.133  | 2.44 | 13.133 | 6.10  | 19.13 | 2.44 |
| 1.167 | 1.22 | 7.167  | 2.44 | 13.167 | 6.10  | 19.17 | 2.44 |
| 1.200 | 1.22 | 7.200  | 2.44 | 13.200 | 6.11  | 19.20 | 2.44 |
| 1.233 | 1.22 | 7.233  | 2.44 | 13.233 | 6.10  | 19.23 | 1.83 |
| 1.267 | 1.22 | 7.267  | 2.44 | 13.267 | 6.10  | 19.27 | 1.83 |
| 1.300 | 1.22 | 7.300  | 2.44 | 13.300 | 6.10  | 19.30 | 1.83 |
| 1.333 | 1.22 | 7.333  | 2.44 | 13.333 | 6.10  | 19.33 | 1.83 |
| 1.367 | 1.22 | 7.367  | 2.44 | 13.367 | 6.10  | 19.37 | 1.83 |
| 1.400 | 1.22 | 7.400  | 2.44 | 13.400 | 6.11  | 19.40 | 1.83 |
| 1.433 | 1.22 | 7.433  | 2.44 | 13.433 | 6.10  | 19.43 | 2.44 |
| 1.467 | 1.22 | 7.467  | 2.44 | 13.467 | 6.10  | 19.47 | 2.44 |
| 1.500 | 1.22 | 7.500  | 2.44 | 13.500 | 6.10  | 19.50 | 2.44 |
| 1.533 | 1.22 | 7.533  | 2.44 | 13.533 | 6.10  | 19.53 | 2.44 |
| 1.567 | 1.22 | 7.567  | 2.44 | 13.567 | 6.10  | 19.57 | 2.44 |
| 1.600 | 1.22 | 7.600  | 2.44 | 13.600 | 6.11  | 19.60 | 2.44 |
| 1.633 | 1.22 | 7.633  | 2.44 | 13.633 | 6.10  | 19.63 | 1.83 |
| 1.667 | 1.22 | 7.667  | 2.44 | 13.667 | 6.10  | 19.67 | 1.83 |
| 1.700 | 1.22 | 7.700  | 2.44 | 13.700 | 6.10  | 19.70 | 1.83 |
| 1.733 | 1.22 | 7.733  | 2.44 | 13.733 | 6.10  | 19.73 | 1.83 |
| 1.767 | 1.22 | 7.767  | 2.44 | 13.767 | 6.10  | 19.77 | 1.83 |
| 1.800 | 1.22 | 7.800  | 2.44 | 13.800 | 6.11  | 19.80 | 1.83 |
| 1.833 | 1.22 | 7.833  | 2.44 | 13.833 | 6.11  | 19.83 | 2.44 |
| 1.867 | 1.22 | 7.867  | 2.44 | 13.867 | 6.11  | 19.87 | 2.44 |
| 1.900 | 1.22 | 7.900  | 2.44 | 13.900 | 6.11  | 19.90 | 2.44 |
| 1.933 | 1.22 | 7.933  | 2.44 | 13.933 | 6.11  | 19.93 | 2.44 |
| 1.967 | 1.22 | 7.967  | 2.44 | 13.967 | 6.11  | 19.97 | 2.44 |
| 2.000 | 1.22 | 8.000  | 2.44 | 14.000 | 6.10  | 20.00 | 2.44 |
| 2.033 | 1.22 | 8.033  | 3.66 | 14.033 | 3.66  | 20.03 | 1.83 |
| 2.067 | 1.22 | 8.067  | 3.66 | 14.067 | 3.66  | 20.07 | 1.83 |
| 2.100 | 1.22 | 8.100  | 3.66 | 14.100 | 3.66  | 20.10 | 1.83 |
| 2.133 | 1.22 | 8.133  | 3.66 | 14.133 | 3.66  | 20.13 | 1.83 |
| 2.167 | 1.22 | 8.167  | 3.66 | 14.167 | 3.66  | 20.17 | 1.83 |
| 2.200 | 1.22 | 8.200  | 3.66 | 14.200 | 3.66  | 20.20 | 1.83 |
| 2.233 | 1.22 | 8.233  | 3.66 | 14.233 | 3.66  | 20.23 | 1.83 |
| 2.267 | 1.22 | 8.267  | 3.66 | 14.267 | 3.66  | 20.27 | 1.83 |
| 2.300 | 1.22 | 8.300  | 3.66 | 14.300 | 3.66  | 20.30 | 1.83 |
| 2.333 | 1.22 | 8.333  | 3.66 | 14.333 | 3.66  | 20.33 | 1.83 |
| 2.367 | 1.22 | 8.367  | 3.66 | 14.367 | 3.66  | 20.37 | 1.83 |
| 2.400 | 1.22 | 8.400  | 3.66 | 14.400 | 3.66  | 20.40 | 1.83 |
| 2.433 | 1.22 | 8.433  | 3.66 | 14.433 | 3.66  | 20.43 | 1.22 |
| 2.467 | 1.22 | 8.467  | 3.66 | 14.467 | 3.66  | 20.47 | 1.22 |
| 2.500 | 1.22 | 8.500  | 3.66 | 14.500 | 3.66  | 20.50 | 1.22 |
| 2.533 | 1.22 | 8.533  | 3.66 | 14.533 | 3.66  | 20.53 | 1.22 |
| 2.567 | 1.22 | 8.567  | 3.66 | 14.567 | 3.66  | 20.57 | 1.22 |
| 2.600 | 1.22 | 8.600  | 3.66 | 14.600 | 3.66  | 20.60 | 1.22 |
| 2.633 | 1.22 | 8.633  | 3.66 | 14.633 | 3.66  | 20.63 | 1.83 |
| 2.667 | 1.22 | 8.667  | 3.66 | 14.667 | 3.66  | 20.67 | 1.83 |
| 2.700 | 1.22 | 8.700  | 3.66 | 14.700 | 3.66  | 20.70 | 1.83 |
| 2.733 | 1.22 | 8.733  | 3.66 | 14.733 | 3.66  | 20.73 | 1.83 |
| 2.767 | 1.22 | 8.767  | 3.66 | 14.767 | 3.66  | 20.77 | 1.83 |
| 2.800 | 1.22 | 8.800  | 3.66 | 14.800 | 3.66  | 20.80 | 1.83 |
| 2.833 | 1.22 | 8.833  | 3.66 | 14.833 | 3.66  | 20.83 | 1.83 |
| 2.867 | 1.22 | 8.867  | 3.66 | 14.867 | 3.66  | 20.87 | 1.83 |
| 2.900 | 1.22 | 8.900  | 3.66 | 14.900 | 3.66  | 20.90 | 1.83 |
| 2.933 | 1.22 | 8.933  | 3.66 | 14.933 | 3.66  | 20.93 | 1.83 |
| 2.967 | 1.22 | 8.967  | 3.66 | 14.967 | 3.66  | 20.97 | 1.83 |
| 3.000 | 1.22 | 9.000  | 3.66 | 15.000 | 3.66  | 21.00 | 1.83 |
| 3.033 | 1.22 | 9.033  | 3.66 | 15.033 | 3.05  | 21.03 | 1.22 |
| 3.067 | 1.22 | 9.067  | 3.66 | 15.067 | 3.05  | 21.07 | 1.22 |
| 3.100 | 1.22 | 9.100  | 3.66 | 15.100 | 3.05  | 21.10 | 1.22 |
| 3.133 | 1.22 | 9.133  | 3.66 | 15.133 | 3.05  | 21.13 | 1.22 |
| 3.167 | 1.22 | 9.167  | 3.66 | 15.167 | 3.05  | 21.17 | 1.22 |
| 3.200 | 1.22 | 9.200  | 3.66 | 15.200 | 3.05  | 21.20 | 1.22 |
| 3.233 | 1.22 | 9.233  | 3.66 | 15.233 | 3.05  | 21.23 | 1.83 |
| 3.267 | 1.22 | 9.267  | 3.66 | 15.267 | 3.05  | 21.27 | 1.83 |
| 3.300 | 1.22 | 9.300  | 3.66 | 15.300 | 3.05  | 21.30 | 1.83 |
| 3.333 | 1.22 | 9.333  | 3.66 | 15.333 | 3.05  | 21.33 | 1.83 |
| 3.367 | 1.22 | 9.367  | 3.66 | 15.367 | 3.05  | 21.37 | 1.83 |
| 3.400 | 1.22 | 9.400  | 3.66 | 15.400 | 3.05  | 21.40 | 1.83 |
| 3.433 | 1.22 | 9.433  | 3.66 | 15.433 | 3.05  | 21.43 | 1.22 |
| 3.467 | 1.22 | 9.467  | 3.66 | 15.467 | 3.05  | 21.47 | 1.22 |
| 3.500 | 1.22 | 9.500  | 3.66 | 15.500 | 3.05  | 21.50 | 1.22 |
| 3.533 | 1.22 | 9.533  | 3.66 | 15.533 | 3.05  | 21.53 | 1.22 |
| 3.567 | 1.22 | 9.567  | 3.66 | 15.567 | 3.05  | 21.57 | 1.22 |
| 3.600 | 1.22 | 9.600  | 3.66 | 15.600 | 3.05  | 21.60 | 1.22 |
| 3.633 | 1.22 | 9.633  | 3.66 | 15.633 | 3.05  | 21.63 | 1.83 |
| 3.667 | 1.22 | 9.667  | 3.66 | 15.667 | 3.05  | 21.67 | 1.83 |
| 3.700 | 1.22 | 9.700  | 3.66 | 15.700 | 3.05  | 21.70 | 1.83 |
| 3.733 | 1.22 | 9.733  | 3.66 | 15.733 | 3.05  | 21.73 | 1.83 |
| 3.767 | 1.22 | 9.767  | 3.66 | 15.767 | 3.05  | 21.77 | 1.83 |
| 3.800 | 1.22 | 9.800  | 3.66 | 15.800 | 3.05  | 21.80 | 1.83 |
| 3.833 | 1.22 | 9.833  | 3.66 | 15.833 | 3.05  | 21.83 | 1.22 |
| 3.867 | 1.22 | 9.867  | 3.66 | 15.867 | 3.05  | 21.87 | 1.22 |
| 3.900 | 1.22 | 9.900  | 3.66 | 15.900 | 3.05  | 21.90 | 1.22 |
| 3.933 | 1.22 | 9.933  | 3.66 | 15.933 | 3.05  | 21.93 | 1.22 |
| 3.967 | 1.22 | 9.967  | 3.66 | 15.967 | 3.05  | 21.97 | 1.22 |
| 4.000 | 1.22 | 10.000 | 3.66 | 16.000 | 3.05  | 22.00 | 1.22 |
| 4.033 | 2.44 | 10.033 | 6.72 | 16.033 | 3.05  | 22.03 | 1.22 |
| 4.067 | 2.44 | 10.067 | 6.72 | 16.067 | 3.05  | 22.07 | 1.22 |
| 4.100 | 2.44 | 10.100 | 6.72 | 16.100 | 3.05  | 22.10 | 1.22 |
| 4.133 | 2.44 | 10.133 | 6.72 | 16.133 | 3.05  | 22.13 | 1.22 |
| 4.167 | 2.44 | 10.167 | 6.72 | 16.167 | 3.05  | 22.17 | 1.22 |
| 4.200 | 2.44 | 10.200 | 6.72 | 16.200 | 3.05  | 22.20 | 1.22 |
| 4.233 | 2.44 | 10.233 | 6.72 | 16.233 | 3.05  | 22.23 | 1.83 |
| 4.267 | 2.44 | 10.267 | 6.72 | 16.267 | 3.05  | 22.27 | 1.83 |
| 4.300 | 2.44 | 10.300 | 6.72 | 16.300 | 3.05  | 22.30 | 1.83 |
| 4.333 | 2.44 | 10.333 | 6.72 | 16.333 | 3.05  | 22.33 | 1.83 |
| 4.367 | 2.44 | 10.367 | 6.72 | 16.367 | 3.05  | 22.37 | 1.83 |
| 4.400 | 2.44 | 10.400 | 6.72 | 16.400 | 3.05  | 22.40 | 1.83 |
| 4.433 | 2.44 | 10.433 | 6.72 | 16.433 | 3.05  | 22.43 | 1.22 |
| 4.467 | 2.44 | 10.467 | 6.72 | 16.467 | 3.05  | 22.47 | 1.22 |
| 4.500 | 2.44 | 10.500 | 6.72 | 16.500 | 3.05  | 22.50 | 1.22 |
| 4.533 | 2.44 | 10.533 | 6.72 | 16.533 | 3.05  | 22.53 | 1.22 |
| 4.567 | 2.44 | 10.567 | 6.72 | 16.567 | 3.05  | 22.57 | 1.22 |
| 4.600 | 2.44 | 10.600 | 6.72 | 16.600 | 3.05  | 22.60 | 1.83 |
| 4.633 | 2.44 | 10.633 | 6.72 | 16.633 | 3.05  | 22.63 | 1.83 |
| 4.667 | 2.44 | 10.667 | 6.72 | 16.667 | 3.05  | 22.67 | 1.83 |
| 4.700 | 2.44 | 10.700 | 6.72 | 16.700 | 3.05  | 22.70 | 1.83 |
| 4.733 | 2.44 | 10.733 | 6.72 | 16.733 | 3.05  | 22.73 | 1.83 |
| 4.767 | 2.44 | 10.767 | 6.72 | 16.767 | 3.05  | 22.77 | 1.83 |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 4.800 | 2.44 | 10.800 | 6.72   | 16.800 | 3.05 | 22.80 | 1.83 |
| 4.833 | 2.44 | 10.833 | 6.72   | 16.833 | 1.83 | 22.83 | 1.22 |
| 4.867 | 2.44 | 10.867 | 6.72   | 16.867 | 1.83 | 22.87 | 1.22 |
| 4.900 | 2.44 | 10.900 | 6.72   | 16.900 | 1.83 | 22.90 | 1.22 |
| 4.933 | 2.44 | 10.933 | 6.72   | 16.933 | 1.83 | 22.93 | 1.22 |
| 4.967 | 2.44 | 10.967 | 6.72   | 16.967 | 1.83 | 22.97 | 1.22 |
| 5.000 | 2.44 | 11.000 | 6.72   | 17.000 | 1.83 | 23.00 | 1.22 |
| 5.033 | 2.44 | 11.033 | 9.16   | 17.033 | 1.83 | 23.03 | 1.22 |
| 5.067 | 2.44 | 11.067 | 9.16   | 17.067 | 1.83 | 23.07 | 1.22 |
| 5.100 | 2.44 | 11.100 | 9.16   | 17.100 | 1.83 | 23.10 | 1.22 |
| 5.133 | 2.44 | 11.133 | 9.16   | 17.133 | 1.83 | 23.13 | 1.22 |
| 5.167 | 2.44 | 11.167 | 9.16   | 17.167 | 1.83 | 23.17 | 1.22 |
| 5.200 | 2.44 | 11.200 | 9.16   | 17.200 | 1.83 | 23.20 | 1.22 |
| 5.233 | 2.44 | 11.233 | 13.43  | 17.233 | 2.44 | 23.23 | 1.22 |
| 5.267 | 2.44 | 11.267 | 13.43  | 17.267 | 2.44 | 23.27 | 1.22 |
| 5.300 | 2.44 | 11.300 | 13.43  | 17.300 | 2.44 | 23.30 | 1.22 |
| 5.333 | 2.44 | 11.333 | 13.43  | 17.333 | 2.44 | 23.33 | 1.22 |
| 5.367 | 2.44 | 11.367 | 13.43  | 17.367 | 2.44 | 23.37 | 1.22 |
| 5.400 | 2.44 | 11.400 | 13.45  | 17.400 | 2.44 | 23.40 | 1.22 |
| 5.433 | 2.44 | 11.433 | 32.36  | 17.433 | 1.83 | 23.43 | 1.83 |
| 5.467 | 2.44 | 11.467 | 32.36  | 17.467 | 1.83 | 23.47 | 1.83 |
| 5.500 | 2.44 | 11.500 | 32.36  | 17.500 | 1.83 | 23.50 | 1.83 |
| 5.533 | 2.44 | 11.533 | 32.36  | 17.533 | 1.83 | 23.53 | 1.83 |
| 5.567 | 2.44 | 11.567 | 32.36  | 17.567 | 1.83 | 23.57 | 1.83 |
| 5.600 | 2.44 | 11.600 | 32.40  | 17.600 | 1.83 | 23.60 | 1.83 |
| 5.633 | 2.44 | 11.633 | 67.16  | 17.633 | 2.44 | 23.63 | 1.22 |
| 5.667 | 2.44 | 11.667 | 67.16  | 17.667 | 2.44 | 23.67 | 1.22 |
| 5.700 | 2.44 | 11.700 | 67.16  | 17.700 | 2.44 | 23.70 | 1.22 |
| 5.733 | 2.44 | 11.733 | 67.16  | 17.733 | 2.44 | 23.73 | 1.22 |
| 5.767 | 2.44 | 11.767 | 67.16  | 17.767 | 2.44 | 23.77 | 1.22 |
| 5.800 | 2.44 | 11.800 | 67.25  | 17.800 | 2.44 | 23.80 | 1.22 |
| 5.833 | 2.44 | 11.833 | 137.36 | 17.833 | 1.83 | 23.83 | 1.22 |
| 5.867 | 2.44 | 11.867 | 137.36 | 17.867 | 1.83 | 23.87 | 1.22 |
| 5.900 | 2.44 | 11.900 | 137.36 | 17.900 | 1.83 | 23.90 | 1.22 |
| 5.933 | 2.44 | 11.933 | 137.36 | 17.933 | 1.83 | 23.93 | 1.22 |
| 5.967 | 2.44 | 11.967 | 137.36 | 17.967 | 1.83 | 23.97 | 1.22 |
| 6.000 | 2.44 | 12.000 | 137.21 | 18.000 | 1.83 | 24.00 | 1.22 |

Unit Hyd Qpeak (cms)= 0.500

PEAK FLOW (cms)= 0.502 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 76.014  
TOTAL RAINFALL (mm)= 122.999  
RUNOFF COEFFICIENT = 0.623

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0030 )   |              |                |                |              |
|--------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3          |              |                |                |              |
|                    | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0301 ):   | 1.19         | 0.201          | 12.13          | 76.02        |
| + ID2= 2 ( 0302 ): | 2.75         | 0.502          | 12.10          | 76.01        |
| ID = 3 ( 0030 ):   | 3.94         | 0.702          | 12.10          | 76.01        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB             |               |      |                      |      |
|-------------------|---------------|------|----------------------|------|
| NASHYD ( 0303 )   |               |      |                      |      |
| ID= 1 DT= 2.0 min | Area (ha)=    | 1.14 | Curve Number (CN)=   | 83.0 |
|                   | Ia (mm)=      | 5.60 | # of Linear Res.(N)= | 3.00 |
|                   | U.H. Tp(hrs)= | 0.20 |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |               |             |               |             |               |             |               |
|--------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                    | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                          | 1.22          | 6.033       | 2.44          | 12.033      | 24.42         | 18.03       | 1.83          |
| 0.067                          | 1.22          | 6.067       | 2.44          | 12.067      | 24.42         | 18.07       | 1.83          |
| 0.100                          | 1.22          | 6.100       | 2.44          | 12.100      | 24.42         | 18.10       | 1.83          |
| 0.133                          | 1.22          | 6.133       | 2.44          | 12.133      | 24.42         | 18.13       | 1.83          |
| 0.167                          | 1.22          | 6.167       | 2.44          | 12.167      | 24.42         | 18.17       | 1.83          |
| 0.200                          | 1.22          | 6.200       | 2.44          | 12.200      | 24.43         | 18.20       | 1.83          |
| 0.233                          | 1.22          | 6.233       | 2.44          | 12.233      | 15.26         | 18.23       | 1.83          |
| 0.267                          | 1.22          | 6.267       | 2.44          | 12.267      | 15.26         | 18.27       | 1.83          |
| 0.300                          | 1.22          | 6.300       | 2.44          | 12.300      | 15.26         | 18.30       | 1.83          |
| 0.333                          | 1.22          | 6.333       | 2.44          | 12.333      | 15.26         | 18.33       | 1.83          |
| 0.367                          | 1.22          | 6.367       | 2.44          | 12.367      | 15.26         | 18.37       | 1.83          |
| 0.400                          | 1.22          | 6.400       | 2.44          | 12.400      | 15.26         | 18.40       | 1.83          |
| 0.433                          | 1.22          | 6.433       | 2.44          | 12.433      | 10.99         | 18.43       | 2.44          |
| 0.467                          | 1.22          | 6.467       | 2.44          | 12.467      | 10.99         | 18.47       | 2.44          |
| 0.500                          | 1.22          | 6.500       | 2.44          | 12.500      | 10.99         | 18.50       | 2.44          |
| 0.533                          | 1.22          | 6.533       | 2.44          | 12.533      | 10.99         | 18.53       | 2.44          |
| 0.567                          | 1.22          | 6.567       | 2.44          | 12.567      | 10.99         | 18.57       | 2.44          |
| 0.600                          | 1.22          | 6.600       | 2.44          | 12.600      | 10.99         | 18.60       | 2.44          |
| 0.633                          | 1.22          | 6.633       | 2.44          | 12.633      | 10.38         | 18.63       | 1.83          |
| 0.667                          | 1.22          | 6.667       | 2.44          | 12.667      | 10.38         | 18.67       | 1.83          |
| 0.700                          | 1.22          | 6.700       | 2.44          | 12.700      | 10.38         | 18.70       | 1.83          |
| 0.733                          | 1.22          | 6.733       | 2.44          | 12.733      | 10.38         | 18.73       | 1.83          |
| 0.767                          | 1.22          | 6.767       | 2.44          | 12.767      | 10.38         | 18.77       | 1.83          |
| 0.800                          | 1.22          | 6.800       | 2.44          | 12.800      | 10.37         | 18.80       | 1.83          |
| 0.833                          | 1.22          | 6.833       | 2.44          | 12.833      | 7.33          | 18.83       | 1.83          |
| 0.867                          | 1.22          | 6.867       | 2.44          | 12.867      | 7.33          | 18.87       | 1.83          |
| 0.900                          | 1.22          | 6.900       | 2.44          | 12.900      | 7.33          | 18.90       | 1.83          |
| 0.933                          | 1.22          | 6.933       | 2.44          | 12.933      | 7.33          | 18.93       | 1.83          |
| 0.967                          | 1.22          | 6.967       | 2.44          | 12.967      | 7.33          | 18.97       | 1.83          |
| 1.000                          | 1.22          | 7.000       | 2.44          | 13.000      | 7.32          | 19.00       | 1.83          |
| 1.033                          | 1.22          | 7.033       | 2.44          | 13.033      | 6.10          | 19.03       | 2.44          |
| 1.067                          | 1.22          | 7.067       | 2.44          | 13.067      | 6.10          | 19.07       | 2.44          |
| 1.100                          | 1.22          | 7.100       | 2.44          | 13.100      | 6.10          | 19.10       | 2.44          |
| 1.133                          | 1.22          | 7.133       | 2.44          | 13.133      | 6.10          | 19.13       | 2.44          |
| 1.167                          | 1.22          | 7.167       | 2.44          | 13.167      | 6.10          | 19.17       | 2.44          |
| 1.200                          | 1.22          | 7.200       | 2.44          | 13.200      | 6.11          | 19.20       | 2.44          |
| 1.233                          | 1.22          | 7.233       | 2.44          | 13.233      | 6.10          | 19.23       | 1.83          |
| 1.267                          | 1.22          | 7.267       | 2.44          | 13.267      | 6.10          | 19.27       | 1.83          |
| 1.300                          | 1.22          | 7.300       | 2.44          | 13.300      | 6.10          | 19.30       | 1.83          |
| 1.333                          | 1.22          | 7.333       | 2.44          | 13.333      | 6.10          | 19.33       | 1.83          |
| 1.367                          | 1.22          | 7.367       | 2.44          | 13.367      | 6.10          | 19.37       | 1.83          |
| 1.400                          | 1.22          | 7.400       | 2.44          | 13.400      | 6.11          | 19.40       | 1.83          |
| 1.433                          | 1.22          | 7.433       | 2.44          | 13.433      | 6.10          | 19.43       | 2.44          |
| 1.467                          | 1.22          | 7.467       | 2.44          | 13.467      | 6.10          | 19.47       | 2.44          |
| 1.500                          | 1.22          | 7.500       | 2.44          | 13.500      | 6.10          | 19.50       | 2.44          |
| 1.533                          | 1.22          | 7.533       | 2.44          | 13.533      | 6.10          | 19.53       | 2.44          |
| 1.567                          | 1.22          | 7.567       | 2.44          | 13.567      | 6.10          | 19.57       | 2.44          |
| 1.600                          | 1.22          | 7.600       | 2.44          | 13.600      | 6.11          | 19.60       | 2.44          |
| 1.633                          | 1.22          | 7.633       | 2.44          | 13.633      | 6.10          | 19.63       | 1.83          |
| 1.667                          | 1.22          | 7.667       | 2.44          | 13.667      | 6.10          | 19.67       | 1.83          |
| 1.700                          | 1.22          | 7.700       | 2.44          | 13.700      | 6.10          | 19.70       | 1.83          |
| 1.733                          | 1.22          | 7.733       | 2.44          | 13.733      | 6.10          | 19.73       | 1.83          |
| 1.767                          | 1.22          | 7.767       | 2.44          | 13.767      | 6.10          | 19.77       | 1.83          |
| 1.800                          | 1.22          | 7.800       | 2.44          | 13.800      | 6.11          | 19.80       | 1.83          |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 1.833 | 1.22 | 7.833  | 2.44   | 13.833 | 6.11 | 19.83 | 2.44 |
| 1.867 | 1.22 | 7.867  | 2.44   | 13.867 | 6.11 | 19.87 | 2.44 |
| 1.900 | 1.22 | 7.900  | 2.44   | 13.900 | 6.11 | 19.90 | 2.44 |
| 1.933 | 1.22 | 7.933  | 2.44   | 13.933 | 6.11 | 19.93 | 2.44 |
| 1.967 | 1.22 | 7.967  | 2.44   | 13.967 | 6.11 | 19.97 | 2.44 |
| 2.000 | 1.22 | 8.000  | 2.44   | 14.000 | 6.10 | 20.00 | 2.44 |
| 2.033 | 1.22 | 8.033  | 3.66   | 14.033 | 3.66 | 20.03 | 1.83 |
| 2.067 | 1.22 | 8.067  | 3.66   | 14.067 | 3.66 | 20.07 | 1.83 |
| 2.100 | 1.22 | 8.100  | 3.66   | 14.100 | 3.66 | 20.10 | 1.83 |
| 2.133 | 1.22 | 8.133  | 3.66   | 14.133 | 3.66 | 20.13 | 1.83 |
| 2.167 | 1.22 | 8.167  | 3.66   | 14.167 | 3.66 | 20.17 | 1.83 |
| 2.200 | 1.22 | 8.200  | 3.66   | 14.200 | 3.66 | 20.20 | 1.83 |
| 2.233 | 1.22 | 8.233  | 3.66   | 14.233 | 3.66 | 20.23 | 1.83 |
| 2.267 | 1.22 | 8.267  | 3.66   | 14.267 | 3.66 | 20.27 | 1.83 |
| 2.300 | 1.22 | 8.300  | 3.66   | 14.300 | 3.66 | 20.30 | 1.83 |
| 2.333 | 1.22 | 8.333  | 3.66   | 14.333 | 3.66 | 20.33 | 1.83 |
| 2.367 | 1.22 | 8.367  | 3.66   | 14.367 | 3.66 | 20.37 | 1.83 |
| 2.400 | 1.22 | 8.400  | 3.66   | 14.400 | 3.66 | 20.40 | 1.83 |
| 2.433 | 1.22 | 8.433  | 3.66   | 14.433 | 3.66 | 20.43 | 1.22 |
| 2.467 | 1.22 | 8.467  | 3.66   | 14.467 | 3.66 | 20.47 | 1.22 |
| 2.500 | 1.22 | 8.500  | 3.66   | 14.500 | 3.66 | 20.50 | 1.22 |
| 2.533 | 1.22 | 8.533  | 3.66   | 14.533 | 3.66 | 20.53 | 1.22 |
| 2.567 | 1.22 | 8.567  | 3.66   | 14.567 | 3.66 | 20.57 | 1.22 |
| 2.600 | 1.22 | 8.600  | 3.66   | 14.600 | 3.66 | 20.60 | 1.22 |
| 2.633 | 1.22 | 8.633  | 3.66   | 14.633 | 3.66 | 20.63 | 1.83 |
| 2.667 | 1.22 | 8.667  | 3.66   | 14.667 | 3.66 | 20.67 | 1.83 |
| 2.700 | 1.22 | 8.700  | 3.66   | 14.700 | 3.66 | 20.70 | 1.83 |
| 2.733 | 1.22 | 8.733  | 3.66   | 14.733 | 3.66 | 20.73 | 1.83 |
| 2.767 | 1.22 | 8.767  | 3.66   | 14.767 | 3.66 | 20.77 | 1.83 |
| 2.800 | 1.22 | 8.800  | 3.66   | 14.800 | 3.66 | 20.80 | 1.83 |
| 2.833 | 1.22 | 8.833  | 3.66   | 14.833 | 3.66 | 20.83 | 1.83 |
| 2.867 | 1.22 | 8.867  | 3.66   | 14.867 | 3.66 | 20.87 | 1.83 |
| 2.900 | 1.22 | 8.900  | 3.66   | 14.900 | 3.66 | 20.90 | 1.83 |
| 2.933 | 1.22 | 8.933  | 3.66   | 14.933 | 3.66 | 20.93 | 1.83 |
| 2.967 | 1.22 | 8.967  | 3.66   | 14.967 | 3.66 | 20.97 | 1.83 |
| 3.000 | 1.22 | 9.000  | 3.66   | 15.000 | 3.66 | 21.00 | 1.83 |
| 3.033 | 1.22 | 9.033  | 3.66   | 15.033 | 3.05 | 21.03 | 1.22 |
| 3.067 | 1.22 | 9.067  | 3.66   | 15.067 | 3.05 | 21.07 | 1.22 |
| 3.100 | 1.22 | 9.100  | 3.66   | 15.100 | 3.05 | 21.10 | 1.22 |
| 3.133 | 1.22 | 9.133  | 3.66   | 15.133 | 3.05 | 21.13 | 1.22 |
| 3.167 | 1.22 | 9.167  | 3.66   | 15.167 | 3.05 | 21.17 | 1.22 |
| 3.200 | 1.22 | 9.200  | 3.66   | 15.200 | 3.05 | 21.20 | 1.22 |
| 3.233 | 1.22 | 9.233  | 3.66   | 15.233 | 3.05 | 21.23 | 1.83 |
| 3.267 | 1.22 | 9.267  | 3.66   | 15.267 | 3.05 | 21.27 | 1.83 |
| 3.300 | 1.22 | 9.300  | 3.66   | 15.300 | 3.05 | 21.30 | 1.83 |
| 3.333 | 1.22 | 9.333  | 3.66   | 15.333 | 3.05 | 21.33 | 1.83 |
| 3.367 | 1.22 | 9.367  | 3.66   | 15.367 | 3.05 | 21.37 | 1.83 |
| 3.400 | 1.22 | 9.400  | 3.66   | 15.400 | 3.05 | 21.40 | 1.83 |
| 3.433 | 1.22 | 9.433  | 3.66   | 15.433 | 3.05 | 21.43 | 1.22 |
| 3.467 | 1.22 | 9.467  | 3.66   | 15.467 | 3.05 | 21.47 | 1.22 |
| 3.500 | 1.22 | 9.500  | 3.66   | 15.500 | 3.05 | 21.50 | 1.22 |
| 3.533 | 1.22 | 9.533  | 3.66   | 15.533 | 3.05 | 21.53 | 1.22 |
| 3.567 | 1.22 | 9.567  | 3.66   | 15.567 | 3.05 | 21.57 | 1.22 |
| 3.600 | 1.22 | 9.600  | 3.66   | 15.600 | 3.05 | 21.60 | 1.22 |
| 3.633 | 1.22 | 9.633  | 3.66   | 15.633 | 3.05 | 21.63 | 1.83 |
| 3.667 | 1.22 | 9.667  | 3.66   | 15.667 | 3.05 | 21.67 | 1.83 |
| 3.700 | 1.22 | 9.700  | 3.66   | 15.700 | 3.05 | 21.70 | 1.83 |
| 3.733 | 1.22 | 9.733  | 3.66   | 15.733 | 3.05 | 21.73 | 1.83 |
| 3.767 | 1.22 | 9.767  | 3.66   | 15.767 | 3.05 | 21.77 | 1.83 |
| 3.800 | 1.22 | 9.800  | 3.66   | 15.800 | 3.05 | 21.80 | 1.83 |
| 3.833 | 1.22 | 9.833  | 3.66   | 15.833 | 3.05 | 21.83 | 1.22 |
| 3.867 | 1.22 | 9.867  | 3.66   | 15.867 | 3.05 | 21.87 | 1.22 |
| 3.900 | 1.22 | 9.900  | 3.66   | 15.900 | 3.05 | 21.90 | 1.22 |
| 3.933 | 1.22 | 9.933  | 3.66   | 15.933 | 3.05 | 21.93 | 1.22 |
| 3.967 | 1.22 | 9.967  | 3.66   | 15.967 | 3.05 | 21.97 | 1.22 |
| 4.000 | 1.22 | 10.000 | 3.66   | 16.000 | 3.05 | 22.00 | 1.22 |
| 4.033 | 2.44 | 10.033 | 6.72   | 16.033 | 3.05 | 22.03 | 1.22 |
| 4.067 | 2.44 | 10.067 | 6.72   | 16.067 | 3.05 | 22.07 | 1.22 |
| 4.100 | 2.44 | 10.100 | 6.72   | 16.100 | 3.05 | 22.10 | 1.22 |
| 4.133 | 2.44 | 10.133 | 6.72   | 16.133 | 3.05 | 22.13 | 1.22 |
| 4.167 | 2.44 | 10.167 | 6.72   | 16.167 | 3.05 | 22.17 | 1.22 |
| 4.200 | 2.44 | 10.200 | 6.72   | 16.200 | 3.05 | 22.20 | 1.22 |
| 4.233 | 2.44 | 10.233 | 6.72   | 16.233 | 3.05 | 22.23 | 1.83 |
| 4.267 | 2.44 | 10.267 | 6.72   | 16.267 | 3.05 | 22.27 | 1.83 |
| 4.300 | 2.44 | 10.300 | 6.72   | 16.300 | 3.05 | 22.30 | 1.83 |
| 4.333 | 2.44 | 10.333 | 6.72   | 16.333 | 3.05 | 22.33 | 1.83 |
| 4.367 | 2.44 | 10.367 | 6.72   | 16.367 | 3.05 | 22.37 | 1.83 |
| 4.400 | 2.44 | 10.400 | 6.72   | 16.400 | 3.05 | 22.40 | 1.83 |
| 4.433 | 2.44 | 10.433 | 6.72   | 16.433 | 3.05 | 22.43 | 1.22 |
| 4.467 | 2.44 | 10.467 | 6.72   | 16.467 | 3.05 | 22.47 | 1.22 |
| 4.500 | 2.44 | 10.500 | 6.72   | 16.500 | 3.05 | 22.50 | 1.22 |
| 4.533 | 2.44 | 10.533 | 6.72   | 16.533 | 3.05 | 22.53 | 1.22 |
| 4.567 | 2.44 | 10.567 | 6.72   | 16.567 | 3.05 | 22.57 | 1.22 |
| 4.600 | 2.44 | 10.600 | 6.72   | 16.600 | 3.05 | 22.60 | 1.22 |
| 4.633 | 2.44 | 10.633 | 6.72   | 16.633 | 3.05 | 22.63 | 1.83 |
| 4.667 | 2.44 | 10.667 | 6.72   | 16.667 | 3.05 | 22.67 | 1.83 |
| 4.700 | 2.44 | 10.700 | 6.72   | 16.700 | 3.05 | 22.70 | 1.83 |
| 4.733 | 2.44 | 10.733 | 6.72   | 16.733 | 3.05 | 22.73 | 1.83 |
| 4.767 | 2.44 | 10.767 | 6.72   | 16.767 | 3.05 | 22.77 | 1.83 |
| 4.800 | 2.44 | 10.800 | 6.72   | 16.800 | 3.05 | 22.80 | 1.83 |
| 4.833 | 2.44 | 10.833 | 6.72   | 16.833 | 1.83 | 22.83 | 1.22 |
| 4.867 | 2.44 | 10.867 | 6.72   | 16.867 | 1.83 | 22.87 | 1.22 |
| 4.900 | 2.44 | 10.900 | 6.72   | 16.900 | 1.83 | 22.90 | 1.22 |
| 4.933 | 2.44 | 10.933 | 6.72   | 16.933 | 1.83 | 22.93 | 1.22 |
| 4.967 | 2.44 | 10.967 | 6.72   | 16.967 | 1.83 | 22.97 | 1.22 |
| 5.000 | 2.44 | 11.000 | 6.72   | 17.000 | 1.83 | 23.00 | 1.22 |
| 5.033 | 2.44 | 11.033 | 9.16   | 17.033 | 1.83 | 23.03 | 1.22 |
| 5.067 | 2.44 | 11.067 | 9.16   | 17.067 | 1.83 | 23.07 | 1.22 |
| 5.100 | 2.44 | 11.100 | 9.16   | 17.100 | 1.83 | 23.10 | 1.22 |
| 5.133 | 2.44 | 11.133 | 9.16   | 17.133 | 1.83 | 23.13 | 1.22 |
| 5.167 | 2.44 | 11.167 | 9.16   | 17.167 | 1.83 | 23.17 | 1.22 |
| 5.200 | 2.44 | 11.200 | 9.16   | 17.200 | 1.83 | 23.20 | 1.22 |
| 5.233 | 2.44 | 11.233 | 13.43  | 17.233 | 2.44 | 23.23 | 1.22 |
| 5.267 | 2.44 | 11.267 | 13.43  | 17.267 | 2.44 | 23.27 | 1.22 |
| 5.300 | 2.44 | 11.300 | 13.43  | 17.300 | 2.44 | 23.30 | 1.22 |
| 5.333 | 2.44 | 11.333 | 13.43  | 17.333 | 2.44 | 23.33 | 1.22 |
| 5.367 | 2.44 | 11.367 | 13.43  | 17.367 | 2.44 | 23.37 | 1.22 |
| 5.400 | 2.44 | 11.400 | 13.45  | 17.400 | 2.44 | 23.40 | 1.22 |
| 5.433 | 2.44 | 11.433 | 32.36  | 17.433 | 1.83 | 23.43 | 1.83 |
| 5.467 | 2.44 | 11.467 | 32.36  | 17.467 | 1.83 | 23.47 | 1.83 |
| 5.500 | 2.44 | 11.500 | 32.36  | 17.500 | 1.83 | 23.50 | 1.83 |
| 5.533 | 2.44 | 11.533 | 32.36  | 17.533 | 1.83 | 23.53 | 1.83 |
| 5.567 | 2.44 | 11.567 | 32.36  | 17.567 | 1.83 | 23.57 | 1.83 |
| 5.600 | 2.44 | 11.600 | 32.40  | 17.600 | 1.83 | 23.60 | 1.83 |
| 5.633 | 2.44 | 11.633 | 67.16  | 17.633 | 2.44 | 23.63 | 1.22 |
| 5.667 | 2.44 | 11.667 | 67.16  | 17.667 | 2.44 | 23.67 | 1.22 |
| 5.700 | 2.44 | 11.700 | 67.16  | 17.700 | 2.44 | 23.70 | 1.22 |
| 5.733 | 2.44 | 11.733 | 67.16  | 17.733 | 2.44 | 23.73 | 1.22 |
| 5.767 | 2.44 | 11.767 | 67.16  | 17.767 | 2.44 | 23.77 | 1.22 |
| 5.800 | 2.44 | 11.800 | 137.36 | 17.800 | 2.44 | 23.80 | 1.22 |
| 5.833 | 2.44 | 11.833 | 137.36 | 17.833 | 1.83 | 23.83 | 1.22 |
| 5.867 | 2.44 | 11.867 | 137.36 | 17.867 | 1.83 | 23.87 | 1.22 |
| 5.900 | 2.44 | 11.900 | 137.36 | 17.900 | 1.83 | 23.90 | 1.22 |
| 5.933 | 2.44 | 11.933 | 137.36 | 17.933 | 1.83 | 23.93 | 1.22 |
| 5.967 | 2.44 | 11.967 | 137.36 | 17.967 | 1.83 | 23.97 | 1.22 |
| 6.000 | 2.44 | 12.000 | 137.21 | 18.000 | 1.83 | 24.00 | 1.22 |

Unit Hyd Qpeak (cms)= 0.218

PEAK FLOW (cms)= 0.225 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 80.531  
TOTAL RAINFALL (mm)= 122.099  
RUNOFF COEFFICIENT = 0.660

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0031)   |           |             |             |           |
|-------------------|-----------|-------------|-------------|-----------|
| 1 + 2 = 3         |           |             |             |           |
| ID1= 1 ( 0030):   | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
| + ID2= 2 ( 0303): | 3.94      | 0.702       | 12.10       | 76.01     |
|                   | 1.14      | 0.225       | 12.10       | 80.53     |
| ID = 3 ( 0031):   | 5.08      | 0.927       | 12.10       | 77.03     |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR ( 0201)                       |               |                 |               |                 |
|-----------------------------------------|---------------|-----------------|---------------|-----------------|
| IN= 2---> OUT= 1                        |               |                 |               |                 |
| DT= 2.0 min                             |               |                 |               |                 |
| OVERFLOW IS OFF                         |               |                 |               |                 |
|                                         | OUTFLOW (cms) | STORAGE (ha.m.) | OUTFLOW (cms) | STORAGE (ha.m.) |
|                                         | 0.0000        | 0.0000          | 0.0840        | 0.3591          |
|                                         | 0.0050        | 0.0623          | 0.0920        | 0.4212          |
|                                         | 0.0470        | 0.1654          | 0.5950        | 0.4851          |
|                                         | 0.0680        | 0.2596          | 2.6870        | 0.6182          |
|                                         | AREA (ha)     | QPEAK (cms)     | TPEAK (hrs)   | R.V. (mm)       |
| INFLOW : ID= 2 ( 0031)                  | 5.080         | 0.927           | 12.10         | 77.03           |
| OUTFLOW: ID= 1 ( 0201)                  | 5.080         | 0.064           | 14.20         | 71.61           |
| PEAK FLOW REDUCTION [Qout/Qin](%)= 6.94 |               |                 |               |                 |
| TIME SHIFT OF PEAK FLOW (min)=126.00    |               |                 |               |                 |
| MAXIMUM STORAGE USED (ha.m.)= 0.2431    |               |                 |               |                 |

| CALIB             |      |                      |      |  |
|-------------------|------|----------------------|------|--|
| NASHYD ( 0502)    |      |                      |      |  |
| ID= 1 DT= 2.0 min |      |                      |      |  |
| Area (ha)=        | 0.53 | Curve Number (CN)=   | 71.0 |  |
| Ia (mm)=          | 8.00 | # of Linear Res.(N)= | 3.00 |  |
| U.H. Tp(hrs)=     | 0.22 |                      |      |  |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |       |       |       |        |       |       |       |      |       |
|--------------------------------|-------|-------|-------|--------|-------|-------|-------|------|-------|
| TIME                           | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  | TIME | RAIN  |
| hrs                            | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.033                          | 1.22  | 6.033 | 2.44  | 12.033 | 24.42 | 18.03 | 1.83  |      |       |
| 0.067                          | 1.22  | 6.067 | 2.44  | 12.067 | 24.42 | 18.07 | 1.83  |      |       |
| 0.100                          | 1.22  | 6.100 | 2.44  | 12.100 | 24.42 | 18.10 | 1.83  |      |       |
| 0.133                          | 1.22  | 6.133 | 2.44  | 12.133 | 24.42 | 18.13 | 1.83  |      |       |
| 0.167                          | 1.22  | 6.167 | 2.44  | 12.167 | 24.42 | 18.17 | 1.83  |      |       |
| 0.200                          | 1.22  | 6.200 | 2.44  | 12.200 | 24.41 | 18.20 | 1.83  |      |       |
| 0.233                          | 1.22  | 6.233 | 2.44  | 12.233 | 15.26 | 18.23 | 1.83  |      |       |
| 0.267                          | 1.22  | 6.267 | 2.44  | 12.267 | 15.26 | 18.27 | 1.83  |      |       |
| 0.300                          | 1.22  | 6.300 | 2.44  | 12.300 | 15.26 | 18.30 | 1.83  |      |       |
| 0.333                          | 1.22  | 6.333 | 2.44  | 12.333 | 15.26 | 18.33 | 1.83  |      |       |
| 0.367                          | 1.22  | 6.367 | 2.44  | 12.367 | 15.26 | 18.37 | 1.83  |      |       |
| 0.400                          | 1.22  | 6.400 | 2.44  | 12.400 | 15.26 | 18.40 | 1.83  |      |       |
| 0.433                          | 1.22  | 6.433 | 2.44  | 12.433 | 10.99 | 18.43 | 2.44  |      |       |
| 0.467                          | 1.22  | 6.467 | 2.44  | 12.467 | 10.99 | 18.47 | 2.44  |      |       |
| 0.500                          | 1.22  | 6.500 | 2.44  | 12.500 | 10.99 | 18.50 | 2.44  |      |       |
| 0.533                          | 1.22  | 6.533 | 2.44  | 12.533 | 10.99 | 18.53 | 2.44  |      |       |
| 0.567                          | 1.22  | 6.567 | 2.44  | 12.567 | 10.99 | 18.57 | 2.44  |      |       |
| 0.600                          | 1.22  | 6.600 | 2.44  | 12.600 | 10.99 | 18.60 | 2.44  |      |       |
| 0.633                          | 1.22  | 6.633 | 2.44  | 12.633 | 10.38 | 18.63 | 1.83  |      |       |
| 0.667                          | 1.22  | 6.667 | 2.44  | 12.667 | 10.38 | 18.67 | 1.83  |      |       |
| 0.700                          | 1.22  | 6.700 | 2.44  | 12.700 | 10.38 | 18.70 | 1.83  |      |       |
| 0.733                          | 1.22  | 6.733 | 2.44  | 12.733 | 10.38 | 18.73 | 1.83  |      |       |
| 0.767                          | 1.22  | 6.767 | 2.44  | 12.767 | 10.38 | 18.77 | 1.83  |      |       |
| 0.800                          | 1.22  | 6.800 | 2.44  | 12.800 | 10.37 | 18.80 | 1.83  |      |       |
| 0.833                          | 1.22  | 6.833 | 2.44  | 12.833 | 7.33  | 18.83 | 1.83  |      |       |
| 0.867                          | 1.22  | 6.867 | 2.44  | 12.867 | 7.33  | 18.87 | 1.83  |      |       |
| 0.900                          | 1.22  | 6.900 | 2.44  | 12.900 | 7.33  | 18.90 | 1.83  |      |       |
| 0.933                          | 1.22  | 6.933 | 2.44  | 12.933 | 7.33  | 18.93 | 1.83  |      |       |
| 0.967                          | 1.22  | 6.967 | 2.44  | 12.967 | 7.33  | 18.97 | 1.83  |      |       |
| 1.000                          | 1.22  | 7.000 | 2.44  | 13.000 | 7.32  | 19.00 | 1.83  |      |       |
| 1.033                          | 1.22  | 7.033 | 2.44  | 13.033 | 6.10  | 19.03 | 2.44  |      |       |
| 1.067                          | 1.22  | 7.067 | 2.44  | 13.067 | 6.10  | 19.07 | 2.44  |      |       |
| 1.100                          | 1.22  | 7.100 | 2.44  | 13.100 | 6.10  | 19.10 | 2.44  |      |       |
| 1.133                          | 1.22  | 7.133 | 2.44  | 13.133 | 6.10  | 19.13 | 2.44  |      |       |
| 1.167                          | 1.22  | 7.167 | 2.44  | 13.167 | 6.10  | 19.17 | 2.44  |      |       |
| 1.200                          | 1.22  | 7.200 | 2.44  | 13.200 | 6.11  | 19.20 | 2.44  |      |       |
| 1.233                          | 1.22  | 7.233 | 2.44  | 13.233 | 6.10  | 19.23 | 1.83  |      |       |
| 1.267                          | 1.22  | 7.267 | 2.44  | 13.267 | 6.10  | 19.27 | 1.83  |      |       |
| 1.300                          | 1.22  | 7.300 | 2.44  | 13.300 | 6.10  | 19.30 | 1.83  |      |       |
| 1.333                          | 1.22  | 7.333 | 2.44  | 13.333 | 6.10  | 19.33 | 1.83  |      |       |
| 1.367                          | 1.22  | 7.367 | 2.44  | 13.367 | 6.10  | 19.37 | 1.83  |      |       |
| 1.400                          | 1.22  | 7.400 | 2.44  | 13.400 | 6.11  | 19.40 | 1.83  |      |       |
| 1.433                          | 1.22  | 7.433 | 2.44  | 13.433 | 6.10  | 19.43 | 2.44  |      |       |
| 1.467                          | 1.22  | 7.467 | 2.44  | 13.467 | 6.10  | 19.47 | 2.44  |      |       |
| 1.500                          | 1.22  | 7.500 | 2.44  | 13.500 | 6.10  | 19.50 | 2.44  |      |       |
| 1.533                          | 1.22  | 7.533 | 2.44  | 13.533 | 6.10  | 19.53 | 2.44  |      |       |
| 1.567                          | 1.22  | 7.567 | 2.44  | 13.567 | 6.10  | 19.57 | 2.44  |      |       |
| 1.600                          | 1.22  | 7.600 | 2.44  | 13.600 | 6.11  | 19.60 | 2.44  |      |       |
| 1.633                          | 1.22  | 7.633 | 2.44  | 13.633 | 6.10  | 19.63 | 1.83  |      |       |
| 1.667                          | 1.22  | 7.667 | 2.44  | 13.667 | 6.10  | 19.67 | 1.83  |      |       |
| 1.700                          | 1.22  | 7.700 | 2.44  | 13.700 | 6.10  | 19.70 | 1.83  |      |       |
| 1.733                          | 1.22  | 7.733 | 2.44  | 13.733 | 6.10  | 19.73 | 1.83  |      |       |
| 1.767                          | 1.22  | 7.767 | 2.44  | 13.767 | 6.10  | 19.77 | 1.83  |      |       |
| 1.800                          | 1.22  | 7.800 | 2.44  | 13.800 | 6.11  | 19.80 | 1.83  |      |       |
| 1.833                          | 1.22  | 7.833 | 2.44  | 13.833 | 6.11  | 19.83 | 2.44  |      |       |
| 1.867                          | 1.22  | 7.867 | 2.44  | 13.867 | 6.11  | 19.87 | 2.44  |      |       |
| 1.900                          | 1.22  | 7.900 | 2.44  | 13.900 | 6.11  | 19.90 | 2.44  |      |       |
| 1.933                          | 1.22  | 7.933 | 2.44  | 13.933 | 6.11  | 19.93 | 2.44  |      |       |
| 1.967                          | 1.22  | 7.967 | 2.44  | 13.967 | 6.11  | 19.97 | 2.44  |      |       |
| 2.000                          | 1.22  | 8.000 | 2.44  | 14.000 | 6.10  | 20.00 | 2.44  |      |       |
| 2.033                          | 1.22  | 8.033 | 3.66  | 14.033 | 3.66  | 20.03 | 1.83  |      |       |
| 2.067                          | 1.22  | 8.067 | 3.66  | 14.067 | 3.66  | 20.07 | 1.83  |      |       |
| 2.100                          | 1.22  | 8.100 | 3.66  | 14.100 | 3.66  | 20.10 | 1.83  |      |       |
| 2.133                          | 1.22  | 8.133 | 3.66  | 14.133 | 3.66  | 20.13 | 1.83  |      |       |
| 2.167                          | 1.22  | 8.167 | 3.66  | 14.167 | 3.66  | 20.17 | 1.83  |      |       |
| 2.200                          | 1.22  | 8.200 | 3.66  | 14.200 | 3.66  | 20.20 | 1.83  |      |       |
| 2.233                          | 1.22  | 8.233 | 3.66  | 14.233 | 3.66  | 20.23 | 1.83  |      |       |
| 2.267                          | 1.22  | 8.267 | 3.66  | 14.267 | 3.66  | 20.27 | 1.83  |      |       |
| 2.300                          | 1.22  | 8.300 | 3.66  | 14.300 | 3.66  | 20.30 | 1.83  |      |       |
| 2.333                          | 1.22  | 8.333 | 3.66  | 14.333 | 3.66  | 20.33 | 1.83  |      |       |
| 2.367                          | 1.22  | 8.367 | 3.66  | 14.367 | 3.66  | 20.37 | 1.83  |      |       |
| 2.400                          | 1.22  | 8.400 | 3.66  | 14.400 | 3.66  | 20.40 | 1.83  |      |       |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 2.433 | 1.22 | 8.433  | 3.66   | 14.433 | 3.66 | 20.43 | 1.22 |
| 2.467 | 1.22 | 8.467  | 3.66   | 14.467 | 3.66 | 20.47 | 1.22 |
| 2.500 | 1.22 | 8.500  | 3.66   | 14.500 | 3.66 | 20.50 | 1.22 |
| 2.533 | 1.22 | 8.533  | 3.66   | 14.533 | 3.66 | 20.53 | 1.22 |
| 2.567 | 1.22 | 8.567  | 3.66   | 14.567 | 3.66 | 20.57 | 1.22 |
| 2.600 | 1.22 | 8.600  | 3.66   | 14.600 | 3.66 | 20.60 | 1.22 |
| 2.633 | 1.22 | 8.633  | 3.66   | 14.633 | 3.66 | 20.63 | 1.83 |
| 2.667 | 1.22 | 8.667  | 3.66   | 14.667 | 3.66 | 20.67 | 1.83 |
| 2.700 | 1.22 | 8.700  | 3.66   | 14.700 | 3.66 | 20.70 | 1.83 |
| 2.733 | 1.22 | 8.733  | 3.66   | 14.733 | 3.66 | 20.73 | 1.83 |
| 2.767 | 1.22 | 8.767  | 3.66   | 14.767 | 3.66 | 20.77 | 1.83 |
| 2.800 | 1.22 | 8.800  | 3.66   | 14.800 | 3.66 | 20.80 | 1.83 |
| 2.833 | 1.22 | 8.833  | 3.66   | 14.833 | 3.66 | 20.83 | 1.83 |
| 2.867 | 1.22 | 8.867  | 3.66   | 14.867 | 3.66 | 20.87 | 1.83 |
| 2.900 | 1.22 | 8.900  | 3.66   | 14.900 | 3.66 | 20.90 | 1.83 |
| 2.933 | 1.22 | 8.933  | 3.66   | 14.933 | 3.66 | 20.93 | 1.83 |
| 2.967 | 1.22 | 8.967  | 3.66   | 14.967 | 3.66 | 20.97 | 1.83 |
| 3.000 | 1.22 | 9.000  | 3.66   | 15.000 | 3.66 | 21.00 | 1.83 |
| 3.033 | 1.22 | 9.033  | 3.66   | 15.033 | 3.05 | 21.03 | 1.22 |
| 3.067 | 1.22 | 9.067  | 3.66   | 15.067 | 3.05 | 21.07 | 1.22 |
| 3.100 | 1.22 | 9.100  | 3.66   | 15.100 | 3.05 | 21.10 | 1.22 |
| 3.133 | 1.22 | 9.133  | 3.66   | 15.133 | 3.05 | 21.13 | 1.22 |
| 3.167 | 1.22 | 9.167  | 3.66   | 15.167 | 3.05 | 21.17 | 1.22 |
| 3.200 | 1.22 | 9.200  | 3.66   | 15.200 | 3.05 | 21.20 | 1.22 |
| 3.233 | 1.22 | 9.233  | 3.66   | 15.233 | 3.05 | 21.23 | 1.83 |
| 3.267 | 1.22 | 9.267  | 3.66   | 15.267 | 3.05 | 21.27 | 1.83 |
| 3.300 | 1.22 | 9.300  | 3.66   | 15.300 | 3.05 | 21.30 | 1.83 |
| 3.333 | 1.22 | 9.333  | 3.66   | 15.333 | 3.05 | 21.33 | 1.83 |
| 3.367 | 1.22 | 9.367  | 3.66   | 15.367 | 3.05 | 21.37 | 1.83 |
| 3.400 | 1.22 | 9.400  | 3.66   | 15.400 | 3.05 | 21.40 | 1.83 |
| 3.433 | 1.22 | 9.433  | 3.66   | 15.433 | 3.05 | 21.43 | 1.22 |
| 3.467 | 1.22 | 9.467  | 3.66   | 15.467 | 3.05 | 21.47 | 1.22 |
| 3.500 | 1.22 | 9.500  | 3.66   | 15.500 | 3.05 | 21.50 | 1.22 |
| 3.533 | 1.22 | 9.533  | 3.66   | 15.533 | 3.05 | 21.53 | 1.22 |
| 3.567 | 1.22 | 9.567  | 3.66   | 15.567 | 3.05 | 21.57 | 1.22 |
| 3.600 | 1.22 | 9.600  | 3.66   | 15.600 | 3.05 | 21.60 | 1.22 |
| 3.633 | 1.22 | 9.633  | 3.66   | 15.633 | 3.05 | 21.63 | 1.83 |
| 3.667 | 1.22 | 9.667  | 3.66   | 15.667 | 3.05 | 21.67 | 1.83 |
| 3.700 | 1.22 | 9.700  | 3.66   | 15.700 | 3.05 | 21.70 | 1.83 |
| 3.733 | 1.22 | 9.733  | 3.66   | 15.733 | 3.05 | 21.73 | 1.83 |
| 3.767 | 1.22 | 9.767  | 3.66   | 15.767 | 3.05 | 21.77 | 1.83 |
| 3.800 | 1.22 | 9.800  | 3.66   | 15.800 | 3.05 | 21.80 | 1.83 |
| 3.833 | 1.22 | 9.833  | 3.66   | 15.833 | 3.05 | 21.83 | 1.22 |
| 3.867 | 1.22 | 9.867  | 3.66   | 15.867 | 3.05 | 21.87 | 1.22 |
| 3.900 | 1.22 | 9.900  | 3.66   | 15.900 | 3.05 | 21.90 | 1.22 |
| 3.933 | 1.22 | 9.933  | 3.66   | 15.933 | 3.05 | 21.93 | 1.22 |
| 3.967 | 1.22 | 9.967  | 3.66   | 15.967 | 3.05 | 21.97 | 1.22 |
| 4.000 | 1.22 | 10.000 | 3.66   | 16.000 | 3.05 | 22.00 | 1.22 |
| 4.033 | 2.44 | 10.033 | 6.72   | 16.033 | 3.05 | 22.03 | 1.22 |
| 4.067 | 2.44 | 10.067 | 6.72   | 16.067 | 3.05 | 22.07 | 1.22 |
| 4.100 | 2.44 | 10.100 | 6.72   | 16.100 | 3.05 | 22.10 | 1.22 |
| 4.133 | 2.44 | 10.133 | 6.72   | 16.133 | 3.05 | 22.13 | 1.22 |
| 4.167 | 2.44 | 10.167 | 6.72   | 16.167 | 3.05 | 22.17 | 1.22 |
| 4.200 | 2.44 | 10.200 | 6.72   | 16.200 | 3.05 | 22.20 | 1.22 |
| 4.233 | 2.44 | 10.233 | 6.72   | 16.233 | 3.05 | 22.23 | 1.83 |
| 4.267 | 2.44 | 10.267 | 6.72   | 16.267 | 3.05 | 22.27 | 1.83 |
| 4.300 | 2.44 | 10.300 | 6.72   | 16.300 | 3.05 | 22.30 | 1.83 |
| 4.333 | 2.44 | 10.333 | 6.72   | 16.333 | 3.05 | 22.33 | 1.83 |
| 4.367 | 2.44 | 10.367 | 6.72   | 16.367 | 3.05 | 22.37 | 1.83 |
| 4.400 | 2.44 | 10.400 | 6.72   | 16.400 | 3.05 | 22.40 | 1.83 |
| 4.433 | 2.44 | 10.433 | 6.72   | 16.433 | 3.05 | 22.43 | 1.22 |
| 4.467 | 2.44 | 10.467 | 6.72   | 16.467 | 3.05 | 22.47 | 1.22 |
| 4.500 | 2.44 | 10.500 | 6.72   | 16.500 | 3.05 | 22.50 | 1.22 |
| 4.533 | 2.44 | 10.533 | 6.72   | 16.533 | 3.05 | 22.53 | 1.22 |
| 4.567 | 2.44 | 10.567 | 6.72   | 16.567 | 3.05 | 22.57 | 1.22 |
| 4.600 | 2.44 | 10.600 | 6.72   | 16.600 | 3.05 | 22.60 | 1.22 |
| 4.633 | 2.44 | 10.633 | 6.72   | 16.633 | 3.05 | 22.63 | 1.83 |
| 4.667 | 2.44 | 10.667 | 6.72   | 16.667 | 3.05 | 22.67 | 1.83 |
| 4.700 | 2.44 | 10.700 | 6.72   | 16.700 | 3.05 | 22.70 | 1.83 |
| 4.733 | 2.44 | 10.733 | 6.72   | 16.733 | 3.05 | 22.73 | 1.83 |
| 4.767 | 2.44 | 10.767 | 6.72   | 16.767 | 3.05 | 22.77 | 1.83 |
| 4.800 | 2.44 | 10.800 | 6.72   | 16.800 | 3.05 | 22.80 | 1.83 |
| 4.833 | 2.44 | 10.833 | 6.72   | 16.833 | 1.83 | 22.83 | 1.22 |
| 4.867 | 2.44 | 10.867 | 6.72   | 16.867 | 1.83 | 22.87 | 1.22 |
| 4.900 | 2.44 | 10.900 | 6.72   | 16.900 | 1.83 | 22.90 | 1.22 |
| 4.933 | 2.44 | 10.933 | 6.72   | 16.933 | 1.83 | 22.93 | 1.22 |
| 4.967 | 2.44 | 10.967 | 6.72   | 16.967 | 1.83 | 22.97 | 1.22 |
| 5.000 | 2.44 | 11.000 | 6.72   | 17.000 | 1.83 | 23.00 | 1.22 |
| 5.033 | 2.44 | 11.033 | 9.16   | 17.033 | 1.83 | 23.03 | 1.22 |
| 5.067 | 2.44 | 11.067 | 9.16   | 17.067 | 1.83 | 23.07 | 1.22 |
| 5.100 | 2.44 | 11.100 | 9.16   | 17.100 | 1.83 | 23.10 | 1.22 |
| 5.133 | 2.44 | 11.133 | 9.16   | 17.133 | 1.83 | 23.13 | 1.22 |
| 5.167 | 2.44 | 11.167 | 9.16   | 17.167 | 1.83 | 23.17 | 1.22 |
| 5.200 | 2.44 | 11.200 | 9.16   | 17.200 | 1.83 | 23.20 | 1.22 |
| 5.233 | 2.44 | 11.233 | 13.43  | 17.233 | 2.44 | 23.23 | 2.44 |
| 5.267 | 2.44 | 11.267 | 13.43  | 17.267 | 2.44 | 23.27 | 2.44 |
| 5.300 | 2.44 | 11.300 | 13.43  | 17.300 | 2.44 | 23.30 | 1.22 |
| 5.333 | 2.44 | 11.333 | 13.43  | 17.333 | 2.44 | 23.33 | 1.22 |
| 5.367 | 2.44 | 11.367 | 13.43  | 17.367 | 2.44 | 23.37 | 1.22 |
| 5.400 | 2.44 | 11.400 | 13.45  | 17.400 | 2.44 | 23.40 | 1.22 |
| 5.433 | 2.44 | 11.433 | 32.36  | 17.433 | 1.83 | 23.43 | 1.83 |
| 5.467 | 2.44 | 11.467 | 32.36  | 17.467 | 1.83 | 23.47 | 1.83 |
| 5.500 | 2.44 | 11.500 | 32.36  | 17.500 | 1.83 | 23.50 | 1.83 |
| 5.533 | 2.44 | 11.533 | 32.36  | 17.533 | 1.83 | 23.53 | 1.83 |
| 5.567 | 2.44 | 11.567 | 32.36  | 17.567 | 1.83 | 23.57 | 1.83 |
| 5.600 | 2.44 | 11.600 | 32.40  | 17.600 | 1.83 | 23.60 | 1.83 |
| 5.633 | 2.44 | 11.633 | 67.16  | 17.633 | 2.44 | 23.63 | 1.22 |
| 5.667 | 2.44 | 11.667 | 67.16  | 17.667 | 2.44 | 23.67 | 1.22 |
| 5.700 | 2.44 | 11.700 | 67.16  | 17.700 | 2.44 | 23.70 | 1.22 |
| 5.733 | 2.44 | 11.733 | 67.16  | 17.733 | 2.44 | 23.73 | 1.22 |
| 5.767 | 2.44 | 11.767 | 67.16  | 17.767 | 2.44 | 23.77 | 1.22 |
| 5.800 | 2.44 | 11.800 | 67.25  | 17.800 | 2.44 | 23.80 | 1.83 |
| 5.833 | 2.44 | 11.833 | 137.36 | 17.833 | 1.83 | 23.83 | 1.22 |
| 5.867 | 2.44 | 11.867 | 137.36 | 17.867 | 1.83 | 23.87 | 1.22 |
| 5.900 | 2.44 | 11.900 | 137.36 | 17.900 | 1.83 | 23.90 | 1.22 |
| 5.933 | 2.44 | 11.933 | 137.36 | 17.933 | 1.83 | 23.93 | 1.22 |
| 5.967 | 2.44 | 11.967 | 137.36 | 17.967 | 1.83 | 23.97 | 1.22 |
| 6.000 | 2.44 | 12.000 | 231.17 | 18.000 | 1.83 | 24.00 | 1.22 |

| ----- TRANSFORMED HYETOGRAPH ----- |               |             |               |             |               |             |               |
|------------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                        | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                              | 1.22          | 6.033       | 2.44          | 12.033      | 24.42         | 18.03       | 1.83          |
| 0.067                              | 1.22          | 6.067       | 2.44          | 12.067      | 24.42         | 18.07       | 1.83          |
| 0.100                              | 1.22          | 6.100       | 2.44          | 12.100      | 24.42         | 18.10       | 1.83          |
| 0.133                              | 1.22          | 6.133       | 2.44          | 12.133      | 24.42         | 18.13       | 1.83          |
| 0.167                              | 1.22          | 6.167       | 2.44          | 12.167      | 24.42         | 18.17       | 1.83          |
| 0.200                              | 1.22          | 6.200       | 2.44          | 12.200      | 24.41         | 18.20       | 1.83          |
| 0.233                              | 1.22          | 6.233       | 2.44          | 12.233      | 15.26         | 18.23       | 1.83          |
| 0.267                              | 1.22          | 6.267       | 2.44          | 12.267      | 15.26         | 18.27       | 1.83          |
| 0.300                              | 1.22          | 6.300       | 2.44          | 12.300      | 15.26         | 18.30       | 1.83          |
| 0.333                              | 1.22          | 6.333       | 2.44          | 12.333      | 15.26         | 18.33       | 1.83          |
| 0.367                              | 1.22          | 6.367       | 2.44          | 12.367      | 15.26         | 18.37       | 1.83          |
| 0.400                              | 1.22          | 6.400       | 2.44          | 12.400      | 15.26         | 18.40       | 1.83          |
| 0.433                              | 1.22          | 6.433       | 2.44          | 12.433      | 10.99         | 18.43       | 2.44          |
| 0.467                              | 1.22          | 6.467       | 2.44          | 12.467      | 10.99         | 18.47       | 2.44          |
| 0.500                              | 1.22          | 6.500       | 2.44          | 12.500      | 10.99         | 18.50       | 2.44          |
| 0.533                              | 1.22          | 6.533       | 2.44          | 12.533      | 10.99         | 18.53       | 2.44          |
| 0.567                              | 1.22          | 6.567       | 2.44          | 12.567      | 10.99         | 18.57       | 2.44          |
| 0.600                              | 1.22          | 6.600       | 2.44          | 12.600      | 10.99         | 18.60       | 2.44          |
| 0.633                              | 1.22          | 6.633       | 2.44          | 12.633      | 10.38         | 18.63       | 1.83          |
| 0.667                              | 1.22          | 6.667       | 2.44          | 12.667      | 10.38         | 18.67       | 1.83          |
| 0.700                              | 1.22          | 6.700       | 2.44          | 12.700      | 10.38         | 18.70       | 1.83          |
| 0.733                              | 1.22          | 6.733       | 2.44          | 12.733      | 10.38         | 18.73       | 1.83          |
| 0.767                              | 1.22          | 6.767       | 2.44          | 12.767      | 10.38         | 18.77       | 1.83          |
| 0.800                              | 1.22          | 6.800       | 2.44          | 12.800      | 10.37         | 18.80       | 1.83          |
| 0.833                              | 1.22          | 6.833       | 2.44          | 12.833      | 7.33          | 18.83       | 1.83          |
| 0.867                              | 1.22          | 6.867       | 2.44          | 12.867      | 7.33          | 18.87       | 1.83          |
| 0.900                              | 1.22          | 6.900       | 2.44          | 12.900      | 7.33          | 18.90       | 1.83          |
| 0.933                              | 1.22          | 6.933       | 2.44          | 12.933      | 7.33          | 18.93       | 1.83          |
| 0.967                              | 1.22          | 6.967       | 2.44          | 12.967      | 7.33          | 18.97       | 1.83          |
| 1.000                              | 1.22          | 7.000       | 2.44          | 13.000      | 7.32          | 19.00       | 1.83          |
| 1.033                              | 1.22          | 7.033       | 2.44          | 13.033      | 6.10          | 19.03       | 2.44          |
| 1.067                              | 1.22          | 7.067       | 2.44          | 13.067      | 6.10          | 19.07       | 2.44          |
| 1.100                              | 1.22          | 7.100       | 2.44          | 13.100      | 6.10          | 19.10       | 2.44          |
| 1.133                              | 1.22          | 7.133       | 2.44          | 13.133      | 6.10          | 19.13       | 2.44          |
| 1.167                              | 1.22          | 7.167       | 2.44          | 13.167      | 6.10          | 19.17       | 2.44          |
| 1.200                              | 1.22          | 7.200       | 2.44          | 13.200      | 6.11          | 19.20       | 2.44          |
| 1.233                              | 1.22          | 7.233       | 2.44          | 13.233      | 6.10          | 19.23       | 1.83          |
| 1.267                              | 1.22          | 7.267       | 2.44          | 13.267      | 6.10          | 19.27       | 1.83          |
| 1.300                              | 1.22          | 7.300       | 2.44          | 13.300      | 6.10          | 19.30       | 1.83          |
| 1.333                              | 1.22          | 7.333       | 2.44          | 13.333      | 6.10          | 19.33       | 1.83          |
| 1.367                              | 1.22          | 7.367       | 2.44          | 13.367      | 6.10          | 19.37       | 1.83          |
| 1.400                              | 1.22          | 7.400       | 2.44          | 13.400      | 6.11          | 19.40       | 1.83          |
| 1.433                              | 1.22          | 7.433       | 2.44          | 13.433      | 6.10          | 19.43       | 2.44          |
| 1.467                              | 1.22          | 7.467       | 2.44          | 13.467      | 6.10          | 19.47       | 2.44          |
| 1.500                              | 1.22          | 7.500       | 2.44          | 13.500      | 6.10          | 19.50       | 2.44          |
| 1.533                              | 1.22          | 7.533       | 2.44          | 13.533      | 6.10          | 19.53       | 2.44          |
| 1.567                              | 1.22          | 7.567       | 2.44          | 13.567      | 6.10          | 19.57       | 2.44          |
| 1.600                              | 1.22          | 7.600       | 2.44          | 13.600      | 6.11          | 19.60       | 2.44          |
| 1.633                              | 1.22          | 7.633       | 2.44          | 13.633      | 6.10          | 19.63       | 1.83          |
| 1.667                              | 1.22          | 7.667       | 2.44          | 13.667      | 6.10          | 19.67       | 1.83          |
| 1.700                              | 1.22          | 7.700       | 2.44          | 13.700      | 6.10          | 19.70       | 1.83          |
| 1.733                              | 1.22          | 7.733       | 2.44          | 13.733      | 6.10          | 19.73       | 1.83          |
| 1.767                              | 1.22          | 7.767       | 2.44          | 13.767      | 6.10          | 19.77       | 1.83          |
| 1.800                              | 1.22          | 7.800       | 2.44          | 13.800      | 6.11          | 19.80       | 1.83          |
| 1.833                              | 1.22          | 7.833       | 2.44          | 13.833      | 6.11          | 19.83       | 2.44          |
| 1.867                              | 1.22          | 7.867       | 2.44          | 13.867      | 6.11          | 19.87       | 2.44          |
| 1.900                              | 1.22          | 7.900       | 2.44          | 13.900      | 6.11          | 19.90       | 2.44          |
| 1.933                              | 1.22          | 7.933       | 2.44          | 13.933      | 6.11          | 19.93       | 2.44          |
| 1.967                              | 1.22          | 7.967       | 2.44          | 13.967      | 6.11          | 19.97       | 2.44          |
| 2.000                              | 1.22          | 8.000       | 2.44          | 14.000      | 6.10          | 20.00       | 2.44          |
| 2.033                              | 1.22          | 8.033       | 3.66          | 14.033      | 3.66          | 20.03       | 1.83          |
| 2.067                              | 1.22          | 8.067       | 3.66          | 14.067      | 3.66          | 20.07       | 1.83          |
| 2.100                              | 1.22          | 8.100       | 3.66          | 14.100      | 3.66          | 20.10       | 1.83          |
| 2.133                              | 1.22          | 8.133       | 3.66          | 14.133      | 3.66          | 20.13       | 1.83          |
| 2.167                              | 1.22          | 8.167       | 3.66          | 14.167      | 3.66          | 20.17       | 1.83          |
| 2.200                              | 1.22          | 8.200       | 3.66          | 14.200      | 3.66          | 20.20       | 1.83          |
| 2.233                              | 1.22          | 8.233       | 3.66          | 14.233      | 3.66          | 20.23       | 1.83          |
| 2.267                              | 1.22          | 8.267       | 3.66          | 14.267      | 3.66          | 20.27       | 1.83          |
| 2.300                              | 1.22          | 8.300       | 3.66          | 14.300      | 3.66          | 20.30       | 1.83          |
| 2.333                              | 1.22          | 8.333       | 3.66          | 14.333      | 3.66          | 20.33       | 1.83          |
| 2.367                              | 1.22          | 8.367       | 3.66          | 14.367      | 3.66          | 20.37       | 1.83          |
| 2.400                              | 1.22          | 8.400       | 3.66          | 14.400      | 3.66          | 20.40       | 1.83          |
| 2.433                              | 1.22          | 8.433       | 3.66          | 14.433      | 3.66          | 20.43       | 1.22          |
| 2.467                              | 1.22          | 8.467       | 3.66          | 14.467      | 3.66          | 20.47       | 1.22          |
| 2.500                              | 1.22          | 8.500       | 3.66          | 14.500      | 3.66          | 20.50       | 1.22          |
| 2.533                              | 1.22          | 8.533       | 3.66          | 14.533      | 3.66          | 20.53       | 1.22          |
| 2.567                              | 1.22          | 8.567       | 3.66          | 14.567      | 3.66          | 20.57       | 1.22          |
| 2.600                              | 1.22          | 8.600       | 3.66          | 14.600      | 3.66          | 20.60       | 1.22          |
| 2.633                              | 1.22          | 8.633       | 3.66          | 14.633      | 3.66          | 20.63       | 1.83          |
| 2.667                              | 1.22          | 8.667       | 3.66          | 14.667      | 3.66          | 20.67       | 1.83          |
| 2.700                              | 1.22          | 8.700       | 3.66          | 14.700      | 3.66          | 20.70       | 1.83          |
| 2.733                              | 1.22          | 8.733       | 3.66          | 14.733      | 3.66          | 20.73       | 1.83          |
| 2.767                              | 1.22          | 8.767       | 3.66          | 14.767      | 3.66          | 20.77       | 1.83          |
| 2.800                              | 1.22          | 8.800       | 3.66          | 14.800      | 3.66          | 20.80       | 1.83          |
| 2.833                              | 1.22          | 8.833       | 3.66          | 14.833      | 3.66          | 20.83       | 1.83          |
| 2.867                              | 1.22          | 8.867       | 3.66          | 14.867      | 3.66          | 20.87       | 1.83          |
| 2.900                              | 1.22          | 8.900       | 3.66          | 14.900      | 3.66          | 20.90       | 1.83          |
| 2.933                              | 1.22          | 8.933       | 3.66          | 14.933      | 3.66          | 20.93       | 1.83          |
| 2.967                              | 1.22          | 8.967       | 3.66          | 14.967      | 3.66          | 20.97       | 1.83          |
| 3.000                              | 1.22          | 9.000       | 3.66          | 15.000      | 3.66          | 21.00       | 1.83          |
| 3.033                              | 1.22          | 9.033       | 3.66          | 15.033      | 3.05          | 21.03       | 1.22          |
| 3.067                              | 1.22          | 9.067       | 3.66          | 15.067      | 3.05          | 21.07       | 1.22          |
| 3.100                              | 1.22          | 9.100       | 3.66          | 15.100      | 3.05          | 21.10       | 1.22          |
| 3.133                              | 1.22          | 9.133       | 3.66          | 15.133      | 3.05          | 21.13       | 1.22          |
| 3.167                              | 1.22          | 9.167       | 3.66          | 15.167      | 3.05          | 21.17       | 1.22          |
| 3.200                              | 1.22          | 9.200       | 3.66          | 15.200      | 3.05          | 21.20       | 1.22          |
| 3.233                              | 1.22          | 9.233       | 3.66          | 15.233      | 3.05          | 21.23       | 1.83          |
| 3.267                              | 1.22          | 9.267       | 3.66          | 15.267      | 3.05          | 21.27       | 1.83          |
| 3.300                              | 1.22          | 9.300       | 3.66          | 15.300      | 3.05          | 21.30       | 1.83          |
| 3.333                              | 1.22          | 9.333       | 3.66          | 15.333      | 3.05          | 21.33       | 1.83          |
| 3.367                              | 1.22          | 9.367       | 3.66          | 15.367      | 3.05          | 21.37       | 1.83          |
| 3.400                              | 1.22          | 9.400       | 3.66          | 15.400      | 3.05          | 21.40       | 1.83          |
| 3.433                              | 1.22          | 9.433       | 3.66          | 15.433      | 3.05          | 21.43       | 1.22          |
| 3.467                              | 1.22          | 9.467       | 3.66          | 15.467      | 3.05          | 21.47       | 1.22          |
| 3.500                              | 1.22          | 9.500       | 3.66          | 15.500      | 3.05          | 21.50       | 1.22          |
| 3.533                              | 1.22          | 9.533       | 3.66          | 15.533      | 3.05          | 21.53       | 1.22          |
| 3.567                              | 1.22          | 9.567       | 3.66          | 15.567      | 3.05          | 21.57       | 1.22          |
| 3.600                              | 1.22          | 9.600       | 3.66          | 15.600      | 3.05          | 21.60       | 1.22          |
| 3.633                              | 1.22          | 9.633       | 3.66          | 15.633      | 3.05          | 21.63       | 1.83          |
| 3.667                              | 1.22          | 9.667       | 3.66          | 15.667      | 3.05          | 21.67       | 1.83          |
| 3.700                              | 1.22          | 9.700       | 3.66          | 15.700      | 3.05          | 21.70       | 1.83          |
| 3.733                              | 1.22          | 9.733       | 3.66          | 15.733      | 3.05          | 21.73       | 1.83          |
| 3.767                              | 1.22          | 9.767       | 3.66          | 15.767      | 3.05          | 21.77       | 1.83          |
| 3.800                              | 1.22          | 9.800       | 3.66          | 15.800      | 3.05          | 21.80       | 1.83          |
| 3.833                              | 1.22          | 9.833       | 3.66          | 15.833      | 3.05          | 21.83       | 1.22          |
| 3.867                              | 1.22          | 9.867       | 3.66          | 15.867      | 3.05          | 21.87       | 1.22          |
| 3.900                              | 1.22          | 9.900       | 3.66          | 15.900      | 3.05          | 21.90       | 1.22          |
| 3.933                              | 1.22          | 9.933       | 3.66          | 15.933      | 3.05          | 21.93       | 1.22          |
| 3.967                              | 1.22          | 9.967       | 3.66          | 15.967      | 3.05          | 21.97       | 1.22          |
| 4.000                              | 1.22          | 10.000      | 3.66          | 16.000      | 3.05          | 22.00       | 1.22          |
| 4.033                              | 2.44          | 10.033      | 6.72          | 16.033      | 3.05          | 22.03       | 1.22          |
| 4.067                              | 2.44          | 10.067      | 6.72          | 16.067      | 3.05          | 22.07       | 1.22          |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 4.100 | 2.44 | 10.100 | 6.72   | 16.100 | 3.05 | 22.10 | 1.22 |
| 4.133 | 2.44 | 10.133 | 6.72   | 16.133 | 3.05 | 22.13 | 1.22 |
| 4.167 | 2.44 | 10.167 | 6.72   | 16.167 | 3.05 | 22.17 | 1.22 |
| 4.200 | 2.44 | 10.200 | 6.72   | 16.200 | 3.05 | 22.20 | 1.22 |
| 4.233 | 2.44 | 10.233 | 6.72   | 16.233 | 3.05 | 22.23 | 1.83 |
| 4.267 | 2.44 | 10.267 | 6.72   | 16.267 | 3.05 | 22.27 | 1.83 |
| 4.300 | 2.44 | 10.300 | 6.72   | 16.300 | 3.05 | 22.30 | 1.83 |
| 4.333 | 2.44 | 10.333 | 6.72   | 16.333 | 3.05 | 22.33 | 1.83 |
| 4.367 | 2.44 | 10.367 | 6.72   | 16.367 | 3.05 | 22.37 | 1.83 |
| 4.400 | 2.44 | 10.400 | 6.72   | 16.400 | 3.05 | 22.40 | 1.83 |
| 4.433 | 2.44 | 10.433 | 6.72   | 16.433 | 3.05 | 22.43 | 1.22 |
| 4.467 | 2.44 | 10.467 | 6.72   | 16.467 | 3.05 | 22.47 | 1.22 |
| 4.500 | 2.44 | 10.500 | 6.72   | 16.500 | 3.05 | 22.50 | 1.22 |
| 4.533 | 2.44 | 10.533 | 6.72   | 16.533 | 3.05 | 22.53 | 1.22 |
| 4.567 | 2.44 | 10.567 | 6.72   | 16.567 | 3.05 | 22.57 | 1.22 |
| 4.600 | 2.44 | 10.600 | 6.72   | 16.600 | 3.05 | 22.60 | 1.22 |
| 4.633 | 2.44 | 10.633 | 6.72   | 16.633 | 3.05 | 22.63 | 1.83 |
| 4.667 | 2.44 | 10.667 | 6.72   | 16.667 | 3.05 | 22.67 | 1.83 |
| 4.700 | 2.44 | 10.700 | 6.72   | 16.700 | 3.05 | 22.70 | 1.83 |
| 4.733 | 2.44 | 10.733 | 6.72   | 16.733 | 3.05 | 22.73 | 1.83 |
| 4.767 | 2.44 | 10.767 | 6.72   | 16.767 | 3.05 | 22.77 | 1.83 |
| 4.800 | 2.44 | 10.800 | 6.72   | 16.800 | 3.05 | 22.80 | 1.83 |
| 4.833 | 2.44 | 10.833 | 6.72   | 16.833 | 1.83 | 22.83 | 1.22 |
| 4.867 | 2.44 | 10.867 | 6.72   | 16.867 | 1.83 | 22.87 | 1.22 |
| 4.900 | 2.44 | 10.900 | 6.72   | 16.900 | 1.83 | 22.90 | 1.22 |
| 4.933 | 2.44 | 10.933 | 6.72   | 16.933 | 1.83 | 22.93 | 1.22 |
| 4.967 | 2.44 | 10.967 | 6.72   | 16.967 | 1.83 | 22.97 | 1.22 |
| 5.000 | 2.44 | 11.000 | 6.72   | 17.000 | 1.83 | 23.00 | 1.22 |
| 5.033 | 2.44 | 11.033 | 9.16   | 17.033 | 1.83 | 23.03 | 1.22 |
| 5.067 | 2.44 | 11.067 | 9.16   | 17.067 | 1.83 | 23.07 | 1.22 |
| 5.100 | 2.44 | 11.100 | 9.16   | 17.100 | 1.83 | 23.10 | 1.22 |
| 5.133 | 2.44 | 11.133 | 9.16   | 17.133 | 1.83 | 23.13 | 1.22 |
| 5.167 | 2.44 | 11.167 | 9.16   | 17.167 | 1.83 | 23.17 | 1.22 |
| 5.200 | 2.44 | 11.200 | 9.16   | 17.200 | 1.83 | 23.20 | 1.22 |
| 5.233 | 2.44 | 11.233 | 13.43  | 17.233 | 2.44 | 23.23 | 1.22 |
| 5.267 | 2.44 | 11.267 | 13.43  | 17.267 | 2.44 | 23.27 | 1.22 |
| 5.300 | 2.44 | 11.300 | 13.43  | 17.300 | 2.44 | 23.30 | 1.22 |
| 5.333 | 2.44 | 11.333 | 13.43  | 17.333 | 2.44 | 23.33 | 1.22 |
| 5.367 | 2.44 | 11.367 | 13.43  | 17.367 | 2.44 | 23.37 | 1.22 |
| 5.400 | 2.44 | 11.400 | 13.45  | 17.400 | 2.44 | 23.40 | 1.22 |
| 5.433 | 2.44 | 11.433 | 32.36  | 17.433 | 1.83 | 23.43 | 1.83 |
| 5.467 | 2.44 | 11.467 | 32.36  | 17.467 | 1.83 | 23.47 | 1.83 |
| 5.500 | 2.44 | 11.500 | 32.36  | 17.500 | 1.83 | 23.50 | 1.83 |
| 5.533 | 2.44 | 11.533 | 32.36  | 17.533 | 1.83 | 23.53 | 1.83 |
| 5.567 | 2.44 | 11.567 | 32.36  | 17.567 | 1.83 | 23.57 | 1.83 |
| 5.600 | 2.44 | 11.600 | 32.40  | 17.600 | 1.83 | 23.60 | 1.83 |
| 5.633 | 2.44 | 11.633 | 67.16  | 17.633 | 2.44 | 23.63 | 1.22 |
| 5.667 | 2.44 | 11.667 | 67.16  | 17.667 | 2.44 | 23.67 | 1.22 |
| 5.700 | 2.44 | 11.700 | 67.16  | 17.700 | 2.44 | 23.70 | 1.22 |
| 5.733 | 2.44 | 11.733 | 67.16  | 17.733 | 2.44 | 23.73 | 1.22 |
| 5.767 | 2.44 | 11.767 | 67.16  | 17.767 | 2.44 | 23.77 | 1.22 |
| 5.800 | 2.44 | 11.800 | 67.25  | 17.800 | 2.44 | 23.80 | 1.22 |
| 5.833 | 2.44 | 11.833 | 137.36 | 17.833 | 1.83 | 23.83 | 1.22 |
| 5.867 | 2.44 | 11.867 | 137.36 | 17.867 | 1.83 | 23.87 | 1.22 |
| 5.900 | 2.44 | 11.900 | 137.36 | 17.900 | 1.83 | 23.90 | 1.22 |
| 5.933 | 2.44 | 11.933 | 137.36 | 17.933 | 1.83 | 23.93 | 1.22 |
| 5.967 | 2.44 | 11.967 | 137.36 | 17.967 | 1.83 | 23.97 | 1.22 |
| 6.000 | 2.44 | 12.000 | 137.21 | 18.000 | 1.83 | 24.00 | 1.22 |

|       |      |       |      |        |       |       |      |       |      |        |        |        |      |       |      |
|-------|------|-------|------|--------|-------|-------|------|-------|------|--------|--------|--------|------|-------|------|
| 0.733 | 1.22 | 6.733 | 2.44 | 12.733 | 10.38 | 18.73 | 1.83 | 4.967 | 2.44 | 10.967 | 6.72   | 16.967 | 1.83 | 22.97 | 1.22 |
| 0.767 | 1.22 | 6.767 | 2.44 | 12.767 | 10.38 | 18.77 | 1.83 | 5.000 | 2.44 | 11.000 | 6.72   | 17.000 | 1.83 | 23.00 | 1.22 |
| 0.800 | 1.22 | 6.800 | 2.44 | 12.800 | 10.37 | 18.80 | 1.83 | 5.033 | 2.44 | 11.033 | 9.16   | 17.033 | 1.83 | 23.03 | 1.22 |
| 0.833 | 1.22 | 6.833 | 2.44 | 12.833 | 7.33  | 18.83 | 1.83 | 5.067 | 2.44 | 11.067 | 9.16   | 17.067 | 1.83 | 23.07 | 1.22 |
| 0.867 | 1.22 | 6.867 | 2.44 | 12.867 | 7.33  | 18.87 | 1.83 | 5.100 | 2.44 | 11.100 | 9.16   | 17.100 | 1.83 | 23.10 | 1.22 |
| 0.900 | 1.22 | 6.900 | 2.44 | 12.900 | 7.33  | 18.90 | 1.83 | 5.133 | 2.44 | 11.133 | 9.16   | 17.133 | 1.83 | 23.13 | 1.22 |
| 0.933 | 1.22 | 6.933 | 2.44 | 12.933 | 7.33  | 18.93 | 1.83 | 5.167 | 2.44 | 11.167 | 9.16   | 17.167 | 1.83 | 23.17 | 1.22 |
| 0.967 | 1.22 | 6.967 | 2.44 | 12.967 | 7.33  | 18.97 | 1.83 | 5.200 | 2.44 | 11.200 | 9.16   | 17.200 | 1.83 | 23.20 | 1.22 |
| 1.000 | 1.22 | 7.000 | 2.44 | 13.000 | 7.32  | 19.00 | 1.83 | 5.233 | 2.44 | 11.233 | 13.43  | 17.233 | 2.44 | 23.23 | 1.22 |
| 1.033 | 1.22 | 7.033 | 2.44 | 13.033 | 6.10  | 19.03 | 2.44 | 5.267 | 2.44 | 11.267 | 13.43  | 17.267 | 2.44 | 23.27 | 1.22 |
| 1.067 | 1.22 | 7.067 | 2.44 | 13.067 | 6.10  | 19.07 | 2.44 | 5.300 | 2.44 | 11.300 | 13.43  | 17.300 | 2.44 | 23.30 | 1.22 |
| 1.100 | 1.22 | 7.100 | 2.44 | 13.100 | 6.10  | 19.10 | 2.44 | 5.333 | 2.44 | 11.333 | 13.43  | 17.333 | 2.44 | 23.33 | 1.22 |
| 1.133 | 1.22 | 7.133 | 2.44 | 13.133 | 6.10  | 19.13 | 2.44 | 5.367 | 2.44 | 11.367 | 13.43  | 17.367 | 2.44 | 23.37 | 1.22 |
| 1.167 | 1.22 | 7.167 | 2.44 | 13.167 | 6.10  | 19.17 | 2.44 | 5.400 | 2.44 | 11.400 | 13.45  | 17.400 | 2.44 | 23.40 | 1.22 |
| 1.200 | 1.22 | 7.200 | 2.44 | 13.200 | 6.11  | 19.20 | 2.44 | 5.433 | 2.44 | 11.433 | 32.36  | 17.433 | 1.83 | 23.43 | 1.83 |
| 1.233 | 1.22 | 7.233 | 2.44 | 13.233 | 6.46  | 19.23 | 1.83 | 5.467 | 2.44 | 11.467 | 32.36  | 17.467 | 1.83 | 23.47 | 1.83 |
| 1.267 | 1.22 | 7.267 | 2.44 | 13.267 | 10.10 | 19.27 | 1.83 | 5.500 | 2.44 | 11.500 | 32.36  | 17.500 | 1.83 | 23.50 | 1.83 |
| 1.300 | 1.22 | 7.300 | 2.44 | 13.300 | 6.10  | 19.30 | 1.83 | 5.533 | 2.44 | 11.533 | 32.36  | 17.533 | 1.83 | 23.53 | 1.83 |
| 1.333 | 1.22 | 7.333 | 2.44 | 13.333 | 6.10  | 19.33 | 1.83 | 5.567 | 2.44 | 11.567 | 32.36  | 17.567 | 1.83 | 23.57 | 1.83 |
| 1.367 | 1.22 | 7.367 | 2.44 | 13.367 | 6.10  | 19.37 | 1.83 | 5.600 | 2.44 | 11.600 | 32.40  | 17.600 | 1.83 | 23.60 | 1.83 |
| 1.400 | 1.22 | 7.400 | 2.44 | 13.400 | 6.11  | 19.40 | 1.83 | 5.633 | 2.44 | 11.633 | 67.16  | 17.633 | 2.44 | 23.63 | 1.22 |
| 1.433 | 1.22 | 7.433 | 2.44 | 13.433 | 6.10  | 19.43 | 2.44 | 5.667 | 2.44 | 11.667 | 67.16  | 17.667 | 2.44 | 23.67 | 1.22 |
| 1.467 | 1.22 | 7.467 | 2.44 | 13.467 | 6.10  | 19.47 | 2.44 | 5.700 | 2.44 | 11.700 | 67.16  | 17.700 | 2.44 | 23.70 | 1.22 |
| 1.500 | 1.22 | 7.500 | 2.44 | 13.500 | 6.10  | 19.50 | 2.44 | 5.733 | 2.44 | 11.733 | 67.16  | 17.733 | 2.44 | 23.73 | 1.22 |
| 1.533 | 1.22 | 7.533 | 2.44 | 13.533 | 6.10  | 19.53 | 2.44 | 5.767 | 2.44 | 11.767 | 67.16  | 17.767 | 2.44 | 23.77 | 1.22 |
| 1.567 | 1.22 | 7.567 | 2.44 | 13.567 | 6.10  | 19.57 | 2.44 | 5.800 | 2.44 | 11.800 | 67.25  | 17.800 | 2.44 | 23.80 | 1.22 |
| 1.600 | 1.22 | 7.600 | 2.44 | 13.600 | 6.11  | 19.60 | 2.44 | 5.833 | 2.44 | 11.833 | 137.36 | 17.833 | 1.83 | 23.83 | 1.22 |
| 1.633 | 1.22 | 7.633 | 2.44 | 13.633 | 6.10  | 19.63 | 1.83 | 5.867 | 2.44 | 11.867 | 137.36 | 17.867 | 1.83 | 23.87 | 1.22 |
| 1.667 | 1.22 | 7.667 | 2.44 | 13.667 | 6.10  | 19.67 | 1.83 | 5.900 | 2.44 | 11.900 | 137.36 | 17.900 | 1.83 | 23.90 | 1.22 |
| 1.700 | 1.22 | 7.700 | 2.44 | 13.700 | 6.10  | 19.70 | 1.83 | 5.933 | 2.44 | 11.933 | 137.36 | 17.933 | 1.83 | 23.93 | 1.22 |
| 1.733 | 1.22 | 7.733 | 2.44 | 13.733 | 6.10  | 19.73 | 1.83 | 5.967 | 2.44 | 11.967 | 137.36 | 17.967 | 1.83 | 23.97 | 1.22 |
| 1.767 | 1.22 | 7.767 | 2.44 | 13.767 | 6.10  | 19.77 | 1.83 | 6.000 | 2.44 | 12.000 | 137.21 | 18.000 | 1.83 | 24.00 | 1.22 |
| 1.800 | 1.22 | 7.800 | 2.44 | 13.800 | 6.10  | 19.80 | 1.83 |       |      |        |        |        |      |       |      |
| 1.833 | 1.22 | 7.833 | 2.44 | 13.833 | 6.11  | 19.83 | 2.44 |       |      |        |        |        |      |       |      |
| 1.867 | 1.22 | 7.867 | 2.44 | 13.867 | 6.11  | 19.87 | 2.44 |       |      |        |        |        |      |       |      |
| 1.900 | 1.22 | 7.900 | 2.44 | 13.900 | 6.11  | 19.90 | 2.44 |       |      |        |        |        |      |       |      |
| 1.933 | 1.22 | 7.933 | 2.44 | 13.933 | 6.11  | 19.93 | 2.44 |       |      |        |        |        |      |       |      |
| 1.967 | 1.22 | 7.967 | 2.44 | 13.967 | 6.11  | 19.97 | 2.44 |       |      |        |        |        |      |       |      |
| 2.000 | 1.22 | 8.000 | 2.44 | 14.000 | 6.10  | 20.00 | 2.44 |       |      |        |        |        |      |       |      |
| 2.033 | 1.22 | 8.033 | 3.66 | 14.033 | 3.66  | 20.03 | 1.83 |       |      |        |        |        |      |       |      |
| 2.067 | 1.22 | 8.067 | 3.66 | 14.067 | 3.66  | 20.07 | 1.83 |       |      |        |        |        |      |       |      |
| 2.100 | 1.22 | 8.100 | 3.66 | 14.100 | 3.66  | 20.10 | 1.83 |       |      |        |        |        |      |       |      |
| 2.133 | 1.22 | 8.133 | 3.66 | 14.133 | 3.66  | 20.13 | 1.83 |       |      |        |        |        |      |       |      |
| 2.167 | 1.22 | 8.167 | 3.66 | 14.167 | 3.66  | 20.17 | 1.83 |       |      |        |        |        |      |       |      |
| 2.200 | 1.22 | 8.200 | 3.66 | 14.200 | 3.66  | 20.20 | 1.83 |       |      |        |        |        |      |       |      |
| 2.233 | 1.22 | 8.233 | 3.66 | 14.233 | 3.66  | 20.23 | 1.83 |       |      |        |        |        |      |       |      |
| 2.267 | 1.22 | 8.267 | 3.66 | 14.267 | 3.66  | 20.27 | 1.83 |       |      |        |        |        |      |       |      |
| 2.300 | 1.22 | 8.300 | 3.66 | 14.300 | 3.66  | 20.30 | 1.83 |       |      |        |        |        |      |       |      |
| 2.333 | 1.22 | 8.333 | 3.66 | 14.333 | 3.66  | 20.33 | 1.83 |       |      |        |        |        |      |       |      |
| 2.367 | 1.22 | 8.367 | 3.66 | 14.367 | 3.66  | 20.37 | 1.83 |       |      |        |        |        |      |       |      |
| 2.400 | 1.22 | 8.400 | 3.66 | 14.400 | 3.66  | 20.40 | 1.83 |       |      |        |        |        |      |       |      |
| 2.433 | 1.22 | 8.433 | 3.66 | 14.433 | 3.66  | 20.43 | 1.22 |       |      |        |        |        |      |       |      |
| 2.467 | 1.22 | 8.467 | 3.66 | 14.467 | 3.66  | 20.47 | 1.22 |       |      |        |        |        |      |       |      |
| 2.500 | 1.22 | 8.500 | 3.66 | 14.500 | 3.66  | 20.50 | 1.22 |       |      |        |        |        |      |       |      |
| 2.533 | 1.22 | 8.533 | 3.66 | 14.533 | 3.66  | 20.53 | 1.22 |       |      |        |        |        |      |       |      |
| 2.567 | 1.22 | 8.567 | 3.66 | 14.567 | 3.66  | 20.57 | 1.22 |       |      |        |        |        |      |       |      |
| 2.600 | 1.22 | 8.600 | 3.66 | 14.600 | 3.66  | 20.60 | 1.22 |       |      |        |        |        |      |       |      |
| 2.633 | 1.22 | 8.633 | 3.66 | 14.633 | 3.66  | 20.63 | 1.83 |       |      |        |        |        |      |       |      |
| 2.667 | 1.22 | 8.667 | 3.66 | 14.667 | 3.66  | 20.67 | 1.83 |       |      |        |        |        |      |       |      |
| 2.700 | 1.22 | 8.700 | 3.66 | 14.700 | 3.66  | 20.70 | 1.83 |       |      |        |        |        |      |       |      |
| 2.733 | 1.22 | 8.733 | 3.66 | 14.733 | 3.66  | 20.73 | 1.83 |       |      |        |        |        |      |       |      |
| 2.767 | 1.22 | 8.767 | 3.66 | 14.767 | 3.66  | 20.77 | 1.83 |       |      |        |        |        |      |       |      |
| 2.800 | 1.22 | 8.800 | 3.66 | 14.800 | 3.66  | 20.80 | 1.83 |       |      |        |        |        |      |       |      |
| 2.833 | 1.22 | 8.833 | 3.66 | 14.833 | 3.66  | 20.83 | 1.83 |       |      |        |        |        |      |       |      |
| 2.867 | 1.22 | 8.867 | 3.66 | 14.867 | 3.66  | 20.87 | 1.83 |       |      |        |        |        |      |       |      |
| 2.900 | 1.22 | 8.900 | 3.66 | 14.900 | 3.66  | 20.90 | 1.83 |       |      |        |        |        |      |       |      |
| 2.933 | 1.22 | 8.933 | 3.66 | 14.933 | 3.66  | 20.93 | 1.83 |       |      |        |        |        |      |       |      |
| 2.967 | 1.22 | 8.967 | 3.66 | 14.967 | 3.66  | 20.97 | 1.83 |       |      |        |        |        |      |       |      |
| 3.000 | 1.22 | 9.000 | 3.66 | 15.000 | 3.66  | 21.00 | 1.83 |       |      |        |        |        |      |       |      |
| 3.033 | 1.22 | 9.033 | 3.66 | 15.033 | 3.05  | 21.03 | 1.22 |       |      |        |        |        |      |       |      |
| 3.067 | 1.22 | 9.067 | 3.66 | 15.067 | 3.05  | 21.07 | 1.22 |       |      |        |        |        |      |       |      |
| 3.100 | 1.22 | 9.100 | 3.66 | 15.100 | 3.05  | 21.10 | 1.22 |       |      |        |        |        |      |       |      |
| 3.133 | 1.22 | 9.133 | 3.66 | 15.133 | 3.05  | 21.13 | 1.22 |       |      |        |        |        |      |       |      |
| 3.167 | 1.22 | 9.167 | 3.66 | 15.167 | 3.05  | 21.17 | 1.22 |       |      |        |        |        |      |       |      |
| 3.200 | 1.22 | 9.200 | 3.66 | 15.200 | 3.05  | 21.20 | 1.22 |       |      |        |        |        |      |       |      |
| 3.233 | 1.22 | 9.233 | 3.66 | 15.233 | 3.05  | 21.23 | 1.83 |       |      |        |        |        |      |       |      |
| 3.267 | 1.22 | 9.267 | 3.66 | 15.267 | 3.05  | 21.27 | 1.83 |       |      |        |        |        |      |       |      |
| 3.300 | 1.22 | 9.300 | 3.66 | 15.300 | 3.05  | 21.30 | 1.83 |       |      |        |        |        |      |       |      |
| 3.333 | 1.22 | 9.333 | 3.66 | 15.333 | 3.05  | 21.33 | 1.83 |       |      |        |        |        |      |       |      |
| 3.367 | 1.22 | 9.367 | 3.66 | 15.367 | 3.05  | 21.37 | 1.83 |       |      |        |        |        |      |       |      |
| 3.400 | 1.22 | 9.400 | 3.66 | 15.400 | 3.05  | 21.40 | 1.83 |       |      |        |        |        |      |       |      |
| 3.433 | 1.22 | 9.433 | 3.66 | 15.433 | 3.05  | 21.43 | 1.22 |       |      |        |        |        |      |       |      |
| 3.467 | 1.22 | 9.467 | 3.66 | 15.467 | 3.05  | 21.47 | 1.22 |       |      |        |        |        |      |       |      |
| 3.500 | 1.22 | 9.500 | 3.66 | 15.500 | 3.05  | 21.50 | 1.22 |       |      |        |        |        |      |       |      |
| 3.533 | 1.22 | 9.533 | 3.66 | 15.533 | 3.05  | 21.53 | 1.22 |       |      |        |        |        |      |       |      |
| 3.567 | 1.22 | 9.567 | 3.66 | 15.567 | 3.05  | 21.57 | 1.22 |       |      |        |        |        |      |       |      |
| 3.600 | 1.22 | 9.600 | 3.66 | 15.600 | 3.05  | 21.60 | 1.22 |       |      |        |        |        |      |       |      |
| 3.633 | 1.22 | 9.633 | 3.66 | 15.633 | 3.05  | 21.63 | 1.83 |       |      |        |        |        |      |       |      |
| 3.667 | 1.22 | 9.667 | 3.66 | 15.667 | 3.05  | 21.67 | 1.83 |       |      |        |        |        |      |       |      |
| 3.700 | 1.22 | 9.700 | 3.66 | 15.700 | 3.05  | 21.70 | 1.83 |       |      |        |        |        |      |       |      |
| 3.733 | 1.22 | 9.733 | 3.66 | 15.733 | 3.05  | 21.73 | 1.83 |       |      |        |        |        |      |       |      |
| 3.767 | 1.22 | 9.767 | 3.66 | 15.767 | 3.05  | 21.77 | 1.83 |       |      |        |        |        |      |       |      |
| 3.800 | 1.22 | 9.800 | 3.66 | 15.800 | 3.05  | 21.80 | 1.83 |       |      |        |        |        |      |       |      |
| 3.833 | 1.22 | 9.833 | 3.66 | 15.833 | 3.05  | 21.83 | 1.22 |       |      |        |        |        |      |       |      |
| 3.867 | 1.22 | 9.867 | 3.66 | 15.867 | 3.05  | 21.87 | 1.22 |       |      |        |        |        |      |       |      |
| 3.900 | 1.22 | 9.900 | 3.66 | 15.900 | 3.05  | 21.90 | 1.22 |       |      |        |        |        |      |       |      |
| 3.933 | 1.22 | 9.933 |      |        |       |       |      |       |      |        |        |        |      |       |      |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 2.400 | 1.22 | 8.400  | 3.66   | 14.400 | 3.66 | 20.40 | 1.83 |
| 2.433 | 1.22 | 8.433  | 3.66   | 14.433 | 3.66 | 20.43 | 1.22 |
| 2.467 | 1.22 | 8.467  | 3.66   | 14.467 | 3.66 | 20.47 | 1.22 |
| 2.500 | 1.22 | 8.500  | 3.66   | 14.500 | 3.66 | 20.50 | 1.22 |
| 2.533 | 1.22 | 8.533  | 3.66   | 14.533 | 3.66 | 20.53 | 1.22 |
| 2.567 | 1.22 | 8.567  | 3.66   | 14.567 | 3.66 | 20.57 | 1.22 |
| 2.600 | 1.22 | 8.600  | 3.66   | 14.600 | 3.66 | 20.60 | 1.22 |
| 2.633 | 1.22 | 8.633  | 3.66   | 14.633 | 3.66 | 20.63 | 1.83 |
| 2.667 | 1.22 | 8.667  | 3.66   | 14.667 | 3.66 | 20.67 | 1.83 |
| 2.700 | 1.22 | 8.700  | 3.66   | 14.700 | 3.66 | 20.70 | 1.83 |
| 2.733 | 1.22 | 8.733  | 3.66   | 14.733 | 3.66 | 20.73 | 1.83 |
| 2.767 | 1.22 | 8.767  | 3.66   | 14.767 | 3.66 | 20.77 | 1.83 |
| 2.800 | 1.22 | 8.800  | 3.66   | 14.800 | 3.66 | 20.80 | 1.83 |
| 2.833 | 1.22 | 8.833  | 3.66   | 14.833 | 3.66 | 20.83 | 1.83 |
| 2.867 | 1.22 | 8.867  | 3.66   | 14.867 | 3.66 | 20.87 | 1.83 |
| 2.900 | 1.22 | 8.900  | 3.66   | 14.900 | 3.66 | 20.90 | 1.83 |
| 2.933 | 1.22 | 8.933  | 3.66   | 14.933 | 3.66 | 20.93 | 1.83 |
| 2.967 | 1.22 | 8.967  | 3.66   | 14.967 | 3.66 | 20.97 | 1.83 |
| 3.000 | 1.22 | 9.000  | 3.66   | 15.000 | 3.66 | 21.00 | 1.83 |
| 3.033 | 1.22 | 9.033  | 3.66   | 15.033 | 3.05 | 21.03 | 1.22 |
| 3.067 | 1.22 | 9.067  | 3.66   | 15.067 | 3.05 | 21.07 | 1.22 |
| 3.100 | 1.22 | 9.100  | 3.66   | 15.100 | 3.05 | 21.10 | 1.22 |
| 3.133 | 1.22 | 9.133  | 3.66   | 15.133 | 3.05 | 21.13 | 1.22 |
| 3.167 | 1.22 | 9.167  | 3.66   | 15.167 | 3.05 | 21.17 | 1.22 |
| 3.200 | 1.22 | 9.200  | 3.66   | 15.200 | 3.05 | 21.20 | 1.22 |
| 3.233 | 1.22 | 9.233  | 3.66   | 15.233 | 3.05 | 21.23 | 1.83 |
| 3.267 | 1.22 | 9.267  | 3.66   | 15.267 | 3.05 | 21.27 | 1.83 |
| 3.300 | 1.22 | 9.300  | 3.66   | 15.300 | 3.05 | 21.30 | 1.83 |
| 3.333 | 1.22 | 9.333  | 3.66   | 15.333 | 3.05 | 21.33 | 1.83 |
| 3.367 | 1.22 | 9.367  | 3.66   | 15.367 | 3.05 | 21.37 | 1.83 |
| 3.400 | 1.22 | 9.400  | 3.66   | 15.400 | 3.05 | 21.40 | 1.83 |
| 3.433 | 1.22 | 9.433  | 3.66   | 15.433 | 3.05 | 21.43 | 1.22 |
| 3.467 | 1.22 | 9.467  | 3.66   | 15.467 | 3.05 | 21.47 | 1.22 |
| 3.500 | 1.22 | 9.500  | 3.66   | 15.500 | 3.05 | 21.50 | 1.22 |
| 3.533 | 1.22 | 9.533  | 3.66   | 15.533 | 3.05 | 21.53 | 1.22 |
| 3.567 | 1.22 | 9.567  | 3.66   | 15.567 | 3.05 | 21.57 | 1.22 |
| 3.600 | 1.22 | 9.600  | 3.66   | 15.600 | 3.05 | 21.60 | 1.22 |
| 3.633 | 1.22 | 9.633  | 3.66   | 15.633 | 3.05 | 21.63 | 1.83 |
| 3.667 | 1.22 | 9.667  | 3.66   | 15.667 | 3.05 | 21.67 | 1.83 |
| 3.700 | 1.22 | 9.700  | 3.66   | 15.700 | 3.05 | 21.70 | 1.83 |
| 3.733 | 1.22 | 9.733  | 3.66   | 15.733 | 3.05 | 21.73 | 1.83 |
| 3.767 | 1.22 | 9.767  | 3.66   | 15.767 | 3.05 | 21.77 | 1.83 |
| 3.800 | 1.22 | 9.800  | 3.66   | 15.800 | 3.05 | 21.80 | 1.83 |
| 3.833 | 1.22 | 9.833  | 3.66   | 15.833 | 3.05 | 21.83 | 1.22 |
| 3.867 | 1.22 | 9.867  | 3.66   | 15.867 | 3.05 | 21.87 | 1.22 |
| 3.900 | 1.22 | 9.900  | 3.66   | 15.900 | 3.05 | 21.90 | 1.22 |
| 3.933 | 1.22 | 9.933  | 3.66   | 15.933 | 3.05 | 21.93 | 1.22 |
| 3.967 | 1.22 | 9.967  | 3.66   | 15.967 | 3.05 | 21.97 | 1.22 |
| 4.000 | 1.22 | 10.000 | 3.66   | 16.000 | 3.05 | 22.00 | 1.22 |
| 4.033 | 1.22 | 10.033 | 6.72   | 16.033 | 3.05 | 22.03 | 1.22 |
| 4.067 | 1.22 | 10.067 | 6.72   | 16.067 | 3.05 | 22.07 | 1.22 |
| 4.100 | 1.22 | 10.100 | 6.72   | 16.100 | 3.05 | 22.10 | 1.22 |
| 4.133 | 1.22 | 10.133 | 6.72   | 16.133 | 3.05 | 22.13 | 1.22 |
| 4.167 | 1.22 | 10.167 | 6.72   | 16.167 | 3.05 | 22.17 | 1.22 |
| 4.200 | 1.22 | 10.200 | 6.72   | 16.200 | 3.05 | 22.20 | 1.22 |
| 4.233 | 1.22 | 10.233 | 6.72   | 16.233 | 3.05 | 22.23 | 1.83 |
| 4.267 | 1.22 | 10.267 | 6.72   | 16.267 | 3.05 | 22.27 | 1.83 |
| 4.300 | 1.22 | 10.300 | 6.72   | 16.300 | 3.05 | 22.30 | 1.83 |
| 4.333 | 1.22 | 10.333 | 6.72   | 16.333 | 3.05 | 22.33 | 1.83 |
| 4.367 | 1.22 | 10.367 | 6.72   | 16.367 | 3.05 | 22.37 | 1.83 |
| 4.400 | 1.22 | 10.400 | 6.72   | 16.400 | 3.05 | 22.40 | 1.83 |
| 4.433 | 1.22 | 10.433 | 6.72   | 16.433 | 3.05 | 22.43 | 1.22 |
| 4.467 | 1.22 | 10.467 | 6.72   | 16.467 | 3.05 | 22.47 | 1.22 |
| 4.500 | 1.22 | 10.500 | 6.72   | 16.500 | 3.05 | 22.50 | 1.22 |
| 4.533 | 1.22 | 10.533 | 6.72   | 16.533 | 3.05 | 22.53 | 1.22 |
| 4.567 | 1.22 | 10.567 | 6.72   | 16.567 | 3.05 | 22.57 | 1.22 |
| 4.600 | 1.22 | 10.600 | 6.72   | 16.600 | 3.05 | 22.60 | 1.22 |
| 4.633 | 1.22 | 10.633 | 6.72   | 16.633 | 3.05 | 22.63 | 1.83 |
| 4.667 | 1.22 | 10.667 | 6.72   | 16.667 | 3.05 | 22.67 | 1.83 |
| 4.700 | 1.22 | 10.700 | 6.72   | 16.700 | 3.05 | 22.70 | 1.83 |
| 4.733 | 1.22 | 10.733 | 6.72   | 16.733 | 3.05 | 22.73 | 1.83 |
| 4.767 | 1.22 | 10.767 | 6.72   | 16.767 | 3.05 | 22.77 | 1.83 |
| 4.800 | 1.22 | 10.800 | 6.72   | 16.800 | 3.05 | 22.80 | 1.83 |
| 4.833 | 1.22 | 10.833 | 6.72   | 16.833 | 1.83 | 22.83 | 1.22 |
| 4.867 | 1.22 | 10.867 | 6.72   | 16.867 | 1.83 | 22.87 | 1.22 |
| 4.900 | 1.22 | 10.900 | 6.72   | 16.900 | 1.83 | 22.90 | 1.22 |
| 4.933 | 1.22 | 10.933 | 6.72   | 16.933 | 1.83 | 22.93 | 1.22 |
| 4.967 | 1.22 | 10.967 | 6.72   | 16.967 | 1.83 | 22.97 | 1.22 |
| 5.000 | 1.22 | 11.000 | 6.72   | 17.000 | 1.83 | 23.00 | 1.22 |
| 5.033 | 1.22 | 11.033 | 9.16   | 17.033 | 1.83 | 23.03 | 1.22 |
| 5.067 | 1.22 | 11.067 | 9.16   | 17.067 | 1.83 | 23.07 | 1.22 |
| 5.100 | 1.22 | 11.100 | 9.16   | 17.100 | 1.83 | 23.10 | 1.22 |
| 5.133 | 1.22 | 11.133 | 9.16   | 17.133 | 1.83 | 23.13 | 1.22 |
| 5.167 | 1.22 | 11.167 | 9.16   | 17.167 | 1.83 | 23.17 | 1.22 |
| 5.200 | 1.22 | 11.200 | 9.16   | 17.200 | 1.83 | 23.20 | 1.22 |
| 5.233 | 1.22 | 11.233 | 13.43  | 17.233 | 2.44 | 23.23 | 1.22 |
| 5.267 | 1.22 | 11.267 | 13.43  | 17.267 | 2.44 | 23.27 | 1.22 |
| 5.300 | 1.22 | 11.300 | 13.43  | 17.300 | 2.44 | 23.30 | 1.22 |
| 5.333 | 1.22 | 11.333 | 13.43  | 17.333 | 2.44 | 23.33 | 1.22 |
| 5.367 | 1.22 | 11.367 | 13.43  | 17.367 | 2.44 | 23.37 | 1.22 |
| 5.400 | 1.22 | 11.400 | 13.45  | 17.400 | 2.44 | 23.40 | 1.22 |
| 5.433 | 1.22 | 11.433 | 32.36  | 17.433 | 1.83 | 23.43 | 1.83 |
| 5.467 | 1.22 | 11.467 | 32.36  | 17.467 | 1.83 | 23.47 | 1.83 |
| 5.500 | 1.22 | 11.500 | 32.36  | 17.500 | 1.83 | 23.50 | 1.83 |
| 5.533 | 1.22 | 11.533 | 32.36  | 17.533 | 1.83 | 23.53 | 1.83 |
| 5.567 | 1.22 | 11.567 | 32.36  | 17.567 | 1.83 | 23.57 | 1.83 |
| 5.600 | 1.22 | 11.600 | 32.40  | 17.600 | 1.83 | 23.60 | 1.83 |
| 5.633 | 1.22 | 11.633 | 67.16  | 17.633 | 2.44 | 23.63 | 1.22 |
| 5.667 | 1.22 | 11.667 | 67.16  | 17.667 | 2.44 | 23.67 | 1.22 |
| 5.700 | 1.22 | 11.700 | 67.16  | 17.700 | 2.44 | 23.70 | 1.22 |
| 5.733 | 1.22 | 11.733 | 67.16  | 17.733 | 2.44 | 23.73 | 1.22 |
| 5.767 | 1.22 | 11.767 | 67.16  | 17.767 | 2.44 | 23.77 | 1.22 |
| 5.800 | 1.22 | 11.800 | 67.25  | 17.800 | 2.44 | 23.80 | 1.22 |
| 5.833 | 1.22 | 11.833 | 137.36 | 17.833 | 1.83 | 23.83 | 1.22 |
| 5.867 | 1.22 | 11.867 | 137.36 | 17.867 | 1.83 | 23.87 | 1.22 |
| 5.900 | 1.22 | 11.900 | 137.36 | 17.900 | 1.83 | 23.90 | 1.22 |
| 5.933 | 1.22 | 11.933 | 137.36 | 17.933 | 1.83 | 23.93 | 1.22 |
| 5.967 | 1.22 | 11.967 | 137.36 | 17.967 | 1.83 | 23.97 | 1.22 |
| 6.000 | 1.22 | 12.000 | 137.21 | 18.000 | 1.83 | 24.00 | 1.22 |

Unit Hyd Qpeak (cms)= 1.809

PEAK FLOW (cms)= 1.591 (1)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 75.920  
TOTAL RAINFALL (mm)= 122.699  
RUNOFF COEFFICIENT = 0.622

(1) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

+ ID2= 2 ( 0402): 7.58 1.591 12.07 75.92  
=====

ID = 3 ( 0040): 13.55 2.843 12.07 75.92

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB NASHVD ( 0403) Area (ha)= 2.87 Curve Number (CN)= 81.0  
ID= 1 DT= 2.0 min Ia (mm)= 6.80 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.15

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |       |       |       |        |       |       |       |
|--------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                           | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                            | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                          | 1.22  | 6.033 | 2.44  | 12.033 | 24.42 | 18.03 | 1.83  |
| 0.067                          | 1.22  | 6.067 | 2.44  | 12.067 | 24.42 | 18.07 | 1.83  |
| 0.100                          | 1.22  | 6.100 | 2.44  | 12.100 | 24.42 | 18.10 | 1.83  |
| 0.133                          | 1.22  | 6.133 | 2.44  | 12.133 | 24.42 | 18.13 | 1.83  |
| 0.167                          | 1.22  | 6.167 | 2.44  | 12.167 | 24.42 | 18.17 | 1.83  |
| 0.200                          | 1.22  | 6.200 | 2.44  | 12.200 | 24.41 | 18.20 | 1.83  |
| 0.233                          | 1.22  | 6.233 | 2.44  | 12.233 | 15.26 | 18.23 | 1.83  |
| 0.267                          | 1.22  | 6.267 | 2.44  | 12.267 | 15.26 | 18.27 | 1.83  |
| 0.300                          | 1.22  | 6.300 | 2.44  | 12.300 | 15.26 | 18.30 | 1.83  |
| 0.333                          | 1.22  | 6.333 | 2.44  | 12.333 | 15.26 | 18.33 | 1.83  |
| 0.367                          | 1.22  | 6.367 | 2.44  | 12.367 | 15.26 | 18.37 | 1.83  |
| 0.400                          | 1.22  | 6.400 | 2.44  | 12.400 | 15.26 | 18.40 | 1.83  |
| 0.433                          | 1.22  | 6.433 | 2.44  | 12.433 | 10.99 | 18.43 | 2.44  |
| 0.467                          | 1.22  | 6.467 | 2.44  | 12.467 | 10.99 | 18.47 | 2.44  |
| 0.500                          | 1.22  | 6.500 | 2.44  | 12.500 | 10.99 | 18.50 | 2.44  |
| 0.533                          | 1.22  | 6.533 | 2.44  | 12.533 | 10.99 | 18.53 | 2.44  |
| 0.567                          | 1.22  | 6.567 | 2.44  | 12.567 | 10.99 | 18.57 | 2.44  |
| 0.600                          | 1.22  | 6.600 | 2.44  | 12.600 | 10.99 | 18.60 | 2.44  |
| 0.633                          | 1.22  | 6.633 | 2.44  | 12.633 | 10.38 | 18.63 | 1.83  |
| 0.667                          | 1.22  | 6.667 | 2.44  | 12.667 | 10.38 | 18.67 | 1.83  |
| 0.700                          | 1.22  | 6.700 | 2.44  | 12.700 | 10.38 | 18.70 | 1.83  |
| 0.733                          | 1.22  | 6.733 | 2.44  | 12.733 | 10.38 | 18.73 | 1.83  |
| 0.767                          | 1.22  | 6.767 | 2.44  | 12.767 | 10.38 | 18.77 | 1.83  |
| 0.800                          | 1.22  | 6.800 | 2.44  | 12.800 | 10.37 | 18.80 | 1.83  |
| 0.833                          | 1.22  | 6.833 | 2.44  | 12.833 | 7.33  | 18.83 | 1.83  |
| 0.867                          | 1.22  | 6.867 | 2.44  | 12.867 | 7.33  | 18.87 | 1.83  |
| 0.900                          | 1.22  | 6.900 | 2.44  | 12.900 | 7.33  | 18.90 | 1.83  |
| 0.933                          | 1.22  | 6.933 | 2.44  | 12.933 | 7.33  | 18.93 | 1.83  |
| 0.967                          | 1.22  | 6.967 | 2.44  | 12.967 | 7.33  | 18.97 | 1.83  |
| 1.000                          | 1.22  | 7.000 | 2.44  | 13.000 | 7.32  | 19.00 | 1.83  |
| 1.033                          | 1.22  | 7.033 | 2.44  | 13.033 | 6.10  | 19.03 | 2.44  |
| 1.067                          | 1.22  | 7.067 | 2.44  | 13.067 | 6.10  | 19.07 | 2.44  |
| 1.100                          | 1.22  | 7.100 | 2.44  | 13.100 | 6.10  | 19.10 | 2.44  |
| 1.133                          | 1.22  | 7.133 | 2.44  | 13.133 | 6.10  | 19.13 | 2.44  |
| 1.167                          | 1.22  | 7.167 | 2.44  | 13.167 | 6.10  | 19.17 | 2.44  |
| 1.200                          | 1.22  | 7.200 | 2.44  | 13.200 | 6.11  | 19.20 | 2.44  |
| 1.233                          | 1.22  | 7.233 | 2.44  | 13.233 | 6.10  | 19.23 | 1.83  |
| 1.267                          | 1.22  | 7.267 | 2.44  | 13.267 | 6.10  | 19.27 | 1.83  |
| 1.300                          | 1.22  | 7.300 | 2.44  | 13.300 | 6.10  | 19.30 | 1.83  |
| 1.333                          | 1.22  | 7.333 | 2.44  | 13.333 | 6.10  | 19.33 | 1.83  |
| 1.367                          | 1.22  | 7.367 | 2.44  | 13.367 | 6.10  | 19.37 | 1.83  |
| 1.400                          | 1.22  | 7.400 | 2.44  | 13.400 | 6.11  | 19.40 | 1.83  |
| 1.433                          | 1.22  | 7.433 | 2.44  | 13.433 | 6.10  | 19.43 | 2.44  |
| 1.467                          | 1.22  | 7.467 | 2.44  | 13.467 | 6.10  | 19.47 | 2.44  |
| 1.500                          | 1.22  | 7.500 | 2.44  | 13.500 | 6.10  | 19.50 | 2.44  |
| 1.533                          | 1.22  | 7.533 | 2.44  | 13.533 | 6.10  | 19.53 | 2.44  |
| 1.567                          | 1.22  | 7.567 | 2.44  | 13.567 | 6.10  | 19.57 | 2.44  |
| 1.600                          | 1.22  | 7.600 | 2.44  | 13.600 | 6.11  | 19.60 | 2.44  |
| 1.633                          | 1.22  | 7.633 | 2.44  | 13.633 | 6.10  | 19.63 | 1.83  |
| 1.667                          | 1.22  | 7.667 | 2.44  | 13.667 | 6.10  | 19.67 | 1.83  |
| 1.700                          | 1.22  | 7.700 | 2.44  | 13.700 | 6.10  | 19.70 | 1.83  |
| 1.733                          | 1.22  | 7.733 | 2.44  | 13.733 | 6.10  | 19.73 | 1.83  |
| 1.767                          | 1.22  | 7.767 | 2.44  | 13.767 | 6.10  | 19.77 | 1.83  |
| 1.800                          | 1.22  | 7.800 | 2.44  | 13.800 | 6.11  | 19.80 | 1.83  |
| 1.833                          | 1.22  | 7.833 | 2.44  | 13.833 | 6.11  | 19.83 | 2.44  |
| 1.867                          | 1.22  | 7.867 | 2.44  | 13.867 | 6.11  | 19.87 | 2.44  |
| 1.900                          | 1.22  | 7.900 | 2.44  | 13.900 | 6.11  | 19.90 | 2.44  |
| 1.933                          | 1.22  | 7.933 | 2.44  | 13.933 | 6.11  | 19.93 | 2.44  |
| 1.967                          | 1.22  | 7.967 | 2.44  | 13.967 | 6.11  | 19.97 | 2.44  |
| 2.000                          | 1.22  | 8.000 | 2.44  | 14.000 | 6.10  | 20.00 | 2.44  |
| 2.033                          | 1.22  | 8.033 | 3.66  | 14.033 | 3.66  | 20.03 | 1.83  |
| 2.067                          | 1.22  | 8.067 | 3.66  | 14.067 | 3.66  | 20.07 | 1.83  |
| 2.100                          | 1.22  | 8.100 | 3.66  | 14.100 | 3.66  | 20.10 | 1.83  |
| 2.133                          | 1.22  | 8.133 | 3.66  | 14.133 | 3.66  | 20.13 | 1.83  |
| 2.167                          | 1.22  | 8.167 | 3.66  | 14.167 | 3.66  | 20.17 | 1.83  |
| 2.200                          | 1.22  | 8.200 | 3.66  | 14.200 | 3.66  | 20.20 | 1.83  |
| 2.233                          | 1.22  | 8.233 | 3.66  | 14.233 | 3.66  | 20.23 | 1.83  |
| 2.267                          | 1.22  | 8.267 | 3.66  | 14.267 | 3.66  | 20.27 | 1.83  |
| 2.300                          | 1.22  | 8.300 | 3.66  | 14.300 | 3.66  | 20.30 | 1.83  |
| 2.333                          | 1.22  | 8.333 | 3.66  | 14.333 | 3.66  | 20.33 | 1.83  |
| 2.367                          | 1.22  | 8.367 | 3.66  | 14.367 | 3.66  | 20.37 | 1.83  |
| 2.400                          | 1.22  | 8.400 | 3.66  | 14.400 | 3.66  | 20.40 | 1.83  |
| 2.433                          | 1.22  | 8.433 | 3.66  | 14.433 | 3.66  | 20.43 | 1.22  |
| 2.467                          | 1.22  | 8.467 | 3.66  | 14.467 | 3.66  | 20.47 | 1.22  |
| 2.500                          | 1.22  | 8.500 | 3.66  | 14.500 | 3.66  | 20.50 | 1.22  |
| 2.533                          | 1.22  | 8.533 | 3.66  | 14.533 | 3.66  | 20.53 | 1.22  |
| 2.567                          | 1.22  | 8.567 | 3.66  | 14.567 | 3.66  | 20.57 | 1.22  |
| 2.600                          | 1.22  | 8.600 | 3.66  | 14.600 | 3.66  | 20.60 | 1.22  |
| 2.633                          | 1.22  | 8.633 | 3.66  | 14.633 | 3.66  | 20.63 | 1.83  |
| 2.667                          | 1.22  | 8.667 | 3.66  | 14.667 | 3.66  | 20.67 | 1.83  |
| 2.700                          | 1.22  | 8.700 | 3.66  | 14.700 | 3.66  | 20.70 | 1.83  |
| 2.733                          | 1.22  | 8.733 | 3.66  | 14.733 | 3.66  | 20.73 | 1.83  |
| 2.767                          | 1.22  | 8.767 | 3.66  | 14.767 | 3.66  | 20.77 | 1.83  |
| 2.800                          | 1.22  | 8.800 | 3.66  | 14.800 | 3.66  | 20.80 | 1.83  |
| 2.833                          | 1.22  | 8.833 | 3.66  | 14.833 | 3.66  | 20.83 | 1.83  |
| 2.867                          | 1.22  | 8.867 | 3.66  | 14.867 | 3.66  | 20.87 | 1.83  |
| 2.900                          | 1.22  | 8.900 | 3.66  | 14.900 | 3.66  | 20.90 | 1.83  |
| 2.933                          | 1.22  | 8.933 | 3.66  | 14.933 | 3.66  | 20.93 | 1.83  |
| 2.967                          | 1.22  | 8.967 | 3.66  | 14.967 | 3.66  | 20.97 | 1.83  |
| 3.000                          | 1.22  | 9.000 | 3.66  | 15.000 | 3.66  | 21.00 | 1.83  |
| 3.033                          | 1.22  | 9.033 | 3.66  | 15.033 | 3.05  | 21.03 | 1.22  |
| 3.067                          | 1.22  | 9.067 | 3.66  | 15.067 | 3.05  | 21.07 | 1.22  |
| 3.100                          | 1.22  | 9.100 | 3.66  | 15.100 | 3.05  | 21.10 | 1.22  |
| 3.133                          | 1.22  | 9.133 | 3.66  | 15.133 | 3.05  | 21.13 | 1.22  |
| 3.167                          | 1.22  | 9.167 | 3.66  | 15.167 | 3.05  | 21.17 | 1.22  |
| 3.200                          | 1.22  | 9.200 | 3.66  | 15.200 | 3.05  | 21.20 | 1.22  |
| 3.233                          | 1.22  | 9.233 | 3.66  | 15.233 | 3.05  | 21.23 | 1.83  |
| 3.267                          | 1.22  | 9.267 | 3.66  | 15.267 | 3.05  | 21.27 | 1.83  |
| 3.300                          | 1.22  | 9.300 | 3.66  | 15.300 | 3.05  | 21.30 | 1.83  |
| 3.333                          | 1.22  | 9.333 | 3.66  | 15.333 | 3.05  | 21.33 | 1.83  |
| 3.367                          | 1.22  | 9.367 | 3.66  | 15.367 | 3.05  | 21.37 | 1.83  |
| 3.400                          | 1.22  | 9.400 | 3.66  | 15.400 | 3.05  | 21.40 | 1.83  |
| 3.433                          | 1.22  | 9.433 | 3.66  | 15.433 | 3.05  | 21.43 | 1.22  |
| 3.467                          | 1.22  | 9.467 | 3.66  | 15.467 | 3.05  | 21.47 | 1.22  |
| 3.500                          | 1.22  | 9.500 | 3.66  | 15.500 | 3.05  | 21.50 | 1.22  |
| 3.533                          | 1.22  | 9.533 | 3.66  | 15.533 | 3.05  | 21.53 | 1.22  |
| 3.567                          | 1.22  | 9.567 | 3.66  | 15.567 | 3.05  | 21.57 | 1.22  |
| 3.600                          | 1.22  | 9.600 | 3.66  | 15.600 | 3.05  | 21.60 | 1.22  |
| 3.633                          | 1.22  | 9.633 | 3.66  | 15.633 | 3.05  | 21.63 | 1.83  |

|       |      |        |        |        |      |       |      |
|-------|------|--------|--------|--------|------|-------|------|
| 3.667 | 1.22 | 9.667  | 3.66   | 15.667 | 3.05 | 21.67 | 1.83 |
| 3.700 | 1.22 | 9.700  | 3.66   | 15.700 | 3.05 | 21.70 | 1.83 |
| 3.733 | 1.22 | 9.733  | 3.66   | 15.733 | 3.05 | 21.73 | 1.83 |
| 3.767 | 1.22 | 9.767  | 3.66   | 15.767 | 3.05 | 21.77 | 1.83 |
| 3.800 | 1.22 | 9.800  | 3.66   | 15.800 | 3.05 | 21.80 | 1.83 |
| 3.833 | 1.22 | 9.833  | 3.66   | 15.833 | 3.05 | 21.83 | 1.22 |
| 3.867 | 1.22 | 9.867  | 3.66   | 15.867 | 3.05 | 21.87 | 1.22 |
| 3.900 | 1.22 | 9.900  | 3.66   | 15.900 | 3.05 | 21.90 | 1.22 |
| 3.933 | 1.22 | 9.933  | 3.66   | 15.933 | 3.05 | 21.93 | 1.22 |
| 3.967 | 1.22 | 9.967  | 3.66   | 15.967 | 3.05 | 21.97 | 1.22 |
| 4.000 | 1.22 | 10.000 | 3.66   | 16.000 | 3.05 | 22.00 | 1.22 |
| 4.033 | 2.44 | 10.033 | 6.72   | 16.033 | 3.05 | 22.03 | 1.22 |
| 4.067 | 2.44 | 10.067 | 6.72   | 16.067 | 3.05 | 22.07 | 1.22 |
| 4.100 | 2.44 | 10.100 | 6.72   | 16.100 | 3.05 | 22.10 | 1.22 |
| 4.133 | 2.44 | 10.133 | 6.72   | 16.133 | 3.05 | 22.13 | 1.22 |
| 4.167 | 2.44 | 10.167 | 6.72   | 16.167 | 3.05 | 22.17 | 1.22 |
| 4.200 | 2.44 | 10.200 | 6.72   | 16.200 | 3.05 | 22.20 | 1.22 |
| 4.233 | 2.44 | 10.233 | 6.72   | 16.233 | 3.05 | 22.23 | 1.83 |
| 4.267 | 2.44 | 10.267 | 6.72   | 16.267 | 3.05 | 22.27 | 1.83 |
| 4.300 | 2.44 | 10.300 | 6.72   | 16.300 | 3.05 | 22.30 | 1.83 |
| 4.333 | 2.44 | 10.333 | 6.72   | 16.333 | 3.05 | 22.33 | 1.83 |
| 4.367 | 2.44 | 10.367 | 6.72   | 16.367 | 3.05 | 22.37 | 1.83 |
| 4.400 | 2.44 | 10.400 | 6.72   | 16.400 | 3.05 | 22.40 | 1.83 |
| 4.433 | 2.44 | 10.433 | 6.72   | 16.433 | 3.05 | 22.43 | 1.22 |
| 4.467 | 2.44 | 10.467 | 6.72   | 16.467 | 3.05 | 22.47 | 1.22 |
| 4.500 | 2.44 | 10.500 | 6.72   | 16.500 | 3.05 | 22.50 | 1.22 |
| 4.533 | 2.44 | 10.533 | 6.72   | 16.533 | 3.05 | 22.53 | 1.22 |
| 4.567 | 2.44 | 10.567 | 6.72   | 16.567 | 3.05 | 22.57 | 1.22 |
| 4.600 | 2.44 | 10.600 | 6.72   | 16.600 | 3.05 | 22.60 | 1.22 |
| 4.633 | 2.44 | 10.633 | 6.72   | 16.633 | 3.05 | 22.63 | 1.83 |
| 4.667 | 2.44 | 10.667 | 6.72   | 16.667 | 3.05 | 22.67 | 1.83 |
| 4.700 | 2.44 | 10.700 | 6.72   | 16.700 | 3.05 | 22.70 | 1.83 |
| 4.733 | 2.44 | 10.733 | 6.72   | 16.733 | 3.05 | 22.73 | 1.83 |
| 4.767 | 2.44 | 10.767 | 6.72   | 16.767 | 3.05 | 22.77 | 1.83 |
| 4.800 | 2.44 | 10.800 | 6.72   | 16.800 | 3.05 | 22.80 | 1.83 |
| 4.833 | 2.44 | 10.833 | 6.72   | 16.833 | 1.83 | 22.83 | 1.22 |
| 4.867 | 2.44 | 10.867 | 6.72   | 16.867 | 1.83 | 22.87 | 1.22 |
| 4.900 | 2.44 | 10.900 | 6.72   | 16.900 | 1.83 | 22.90 | 1.22 |
| 4.933 | 2.44 | 10.933 | 6.72   | 16.933 | 1.83 | 22.93 | 1.22 |
| 4.967 | 2.44 | 10.967 | 6.72   | 16.967 | 1.83 | 22.97 | 1.22 |
| 5.000 | 2.44 | 11.000 | 6.72   | 17.000 | 1.83 | 23.00 | 1.22 |
| 5.033 | 2.44 | 11.033 | 9.16   | 17.033 | 1.83 | 23.03 | 1.22 |
| 5.067 | 2.44 | 11.067 | 9.16   | 17.067 | 1.83 | 23.07 | 1.22 |
| 5.100 | 2.44 | 11.100 | 9.16   | 17.100 | 1.83 | 23.10 | 1.22 |
| 5.133 | 2.44 | 11.133 | 9.16   | 17.133 | 1.83 | 23.13 | 1.22 |
| 5.167 | 2.44 | 11.167 | 9.16   | 17.167 | 1.83 | 23.17 | 1.22 |
| 5.200 | 2.44 | 11.200 | 9.16   | 17.200 | 1.83 | 23.20 | 1.22 |
| 5.233 | 2.44 | 11.233 | 13.43  | 17.233 | 2.44 | 23.23 | 1.22 |
| 5.267 | 2.44 | 11.267 | 13.43  | 17.267 | 2.44 | 23.27 | 1.22 |
| 5.300 | 2.44 | 11.300 | 13.43  | 17.300 | 2.44 | 23.30 | 1.22 |
| 5.333 | 2.44 | 11.333 | 13.43  | 17.333 | 2.44 | 23.33 | 1.22 |
| 5.367 | 2.44 | 11.367 | 13.43  | 17.367 | 2.44 | 23.37 | 1.22 |
| 5.400 | 2.44 | 11.400 | 13.45  | 17.400 | 2.44 | 23.40 | 1.22 |
| 5.433 | 2.44 | 11.433 | 32.36  | 17.433 | 1.83 | 23.43 | 1.83 |
| 5.467 | 2.44 | 11.467 | 32.36  | 17.467 | 1.83 | 23.47 | 1.83 |
| 5.500 | 2.44 | 11.500 | 32.36  | 17.500 | 1.83 | 23.50 | 1.83 |
| 5.533 | 2.44 | 11.533 | 32.36  | 17.533 | 1.83 | 23.53 | 1.83 |
| 5.567 | 2.44 | 11.567 | 32.36  | 17.567 | 1.83 | 23.57 | 1.83 |
| 5.600 | 2.44 | 11.600 | 32.40  | 17.600 | 1.83 | 23.60 | 1.83 |
| 5.633 | 2.44 | 11.633 | 67.16  | 17.633 | 2.44 | 23.63 | 1.22 |
| 5.667 | 2.44 | 11.667 | 67.16  | 17.667 | 2.44 | 23.67 | 1.22 |
| 5.700 | 2.44 | 11.700 | 67.16  | 17.700 | 2.44 | 23.70 | 1.22 |
| 5.733 | 2.44 | 11.733 | 67.16  | 17.733 | 2.44 | 23.73 | 1.22 |
| 5.767 | 2.44 | 11.767 | 67.16  | 17.767 | 2.44 | 23.77 | 1.22 |
| 5.800 | 2.44 | 11.800 | 67.25  | 17.800 | 2.44 | 23.80 | 1.22 |
| 5.833 | 2.44 | 11.833 | 137.36 | 17.833 | 1.83 | 23.83 | 1.22 |
| 5.867 | 2.44 | 11.867 | 137.36 | 17.867 | 1.83 | 23.87 | 1.22 |
| 5.900 | 2.44 | 11.900 | 137.36 | 17.900 | 1.83 | 23.90 | 1.22 |
| 5.933 | 2.44 | 11.933 | 137.36 | 17.933 | 1.83 | 23.93 | 1.22 |
| 5.967 | 2.44 | 11.967 | 137.36 | 17.967 | 1.83 | 23.97 | 1.22 |
| 6.000 | 2.44 | 12.000 | 137.21 | 18.000 | 1.83 | 24.00 | 1.22 |

Unit Hyd Qpeak (cms)= 0.731

PEAK FLOW (cms)= 0.620 (i)  
TIME TO PEAK (hrs)= 12.033  
RUNOFF VOLUME (mm)= 76.005  
TOTAL RAINFALL (mm)= 122.999  
RUNOFF COEFFICIENT = 0.622

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |               |      |                           |
|-------------------|---------------|------|---------------------------|
| CALIB             |               |      |                           |
| NASHYD ( 0404 )   | Area (ha)=    | 0.85 | Curve Number (CN)= 86.0   |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 4.80 | # of Linear Res.(N)= 3.00 |
|                   | U.H. Tp(hrs)= | 0.20 |                           |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |               |             |               |             |               |             |               |
|------------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                        | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                              | 1.22          | 6.033       | 2.44          | 12.033      | 24.42         | 18.03       | 1.83          |
| 0.067                              | 1.22          | 6.067       | 2.44          | 12.067      | 24.42         | 18.07       | 1.83          |
| 0.100                              | 1.22          | 6.100       | 2.44          | 12.100      | 24.42         | 18.10       | 1.83          |
| 0.133                              | 1.22          | 6.133       | 2.44          | 12.133      | 24.42         | 18.13       | 1.83          |
| 0.167                              | 1.22          | 6.167       | 2.44          | 12.167      | 24.42         | 18.17       | 1.83          |
| 0.200                              | 1.22          | 6.200       | 2.44          | 12.200      | 24.41         | 18.20       | 1.83          |
| 0.233                              | 1.22          | 6.233       | 2.44          | 12.233      | 15.26         | 18.23       | 1.83          |
| 0.267                              | 1.22          | 6.267       | 2.44          | 12.267      | 15.26         | 18.27       | 1.83          |
| 0.300                              | 1.22          | 6.300       | 2.44          | 12.300      | 15.26         | 18.30       | 1.83          |
| 0.333                              | 1.22          | 6.333       | 2.44          | 12.333      | 15.26         | 18.33       | 1.83          |
| 0.367                              | 1.22          | 6.367       | 2.44          | 12.367      | 15.26         | 18.37       | 1.83          |
| 0.400                              | 1.22          | 6.400       | 2.44          | 12.400      | 15.26         | 18.40       | 1.83          |
| 0.433                              | 1.22          | 6.433       | 2.44          | 12.433      | 10.99         | 18.43       | 2.44          |
| 0.467                              | 1.22          | 6.467       | 2.44          | 12.467      | 10.99         | 18.47       | 2.44          |
| 0.500                              | 1.22          | 6.500       | 2.44          | 12.500      | 10.99         | 18.50       | 2.44          |
| 0.533                              | 1.22          | 6.533       | 2.44          | 12.533      | 10.99         | 18.53       | 2.44          |
| 0.567                              | 1.22          | 6.567       | 2.44          | 12.567      | 10.99         | 18.57       | 2.44          |
| 0.600                              | 1.22          | 6.600       | 2.44          | 12.600      | 10.99         | 18.60       | 2.44          |
| 0.633                              | 1.22          | 6.633       | 2.44          | 12.633      | 10.38         | 18.63       | 1.83          |
| 0.667                              | 1.22          | 6.667       | 2.44          | 12.667      | 10.38         | 18.67       | 1.83          |
| 0.700                              | 1.22          | 6.700       | 2.44          | 12.700      | 10.38         | 18.70       | 1.83          |
| 0.733                              | 1.22          | 6.733       | 2.44          | 12.733      | 10.38         | 18.73       | 1.83          |
| 0.767                              | 1.22          | 6.767       | 2.44          | 12.767      | 10.38         | 18.77       | 1.83          |
| 0.800                              | 1.22          | 6.800       | 2.44          | 12.800      | 10.37         | 18.80       | 1.83          |
| 0.833                              | 1.22          | 6.833       | 2.44          | 12.833      | 7.33          | 18.83       | 1.83          |
| 0.867                              | 1.22          | 6.867       | 2.44          | 12.867      | 7.33          | 18.87       | 1.83          |
| 0.900                              | 1.22          | 6.900       | 2.44          | 12.900      | 7.33          | 18.90       | 1.83          |
| 0.933                              | 1.22          | 6.933       | 2.44          | 12.933      | 7.33          | 18.93       | 1.83          |
| 0.967                              | 1.22          | 6.967       | 2.44          | 12.967      | 7.33          | 18.97       | 1.83          |
| 1.000                              | 1.22          | 7.000       | 2.44          | 13.000      | 7.32          | 19.00       | 1.83          |
| 1.033                              | 1.22          | 7.033       | 2.44          | 13.033      | 6.10          | 19.03       | 2.44          |
| 1.067                              | 1.22          | 7.067       | 2.44          | 13.067      | 6.10          | 19.07       | 2.44          |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 1.100 | 1.22 | 7.100  | 2.44  | 13.100 | 6.10 | 19.10 | 2.44 |
| 1.133 | 1.22 | 7.133  | 2.44  | 13.133 | 6.10 | 19.13 | 2.44 |
| 1.167 | 1.22 | 7.167  | 2.44  | 13.167 | 6.10 | 19.17 | 2.44 |
| 1.200 | 1.22 | 7.200  | 2.44  | 13.200 | 6.11 | 19.20 | 2.44 |
| 1.233 | 1.22 | 7.233  | 2.44  | 13.233 | 6.10 | 19.23 | 1.83 |
| 1.267 | 1.22 | 7.267  | 2.44  | 13.267 | 6.10 | 19.27 | 1.83 |
| 1.300 | 1.22 | 7.300  | 2.44  | 13.300 | 6.10 | 19.30 | 1.83 |
| 1.333 | 1.22 | 7.333  | 2.44  | 13.333 | 6.10 | 19.33 | 1.83 |
| 1.367 | 1.22 | 7.367  | 2.44  | 13.367 | 6.10 | 19.37 | 1.83 |
| 1.400 | 1.22 | 7.400  | 2.44  | 13.400 | 6.11 | 19.40 | 1.83 |
| 1.433 | 1.22 | 7.433  | 2.44  | 13.433 | 6.10 | 19.43 | 2.44 |
| 1.467 | 1.22 | 7.467  | 2.44  | 13.467 | 6.10 | 19.47 | 2.44 |
| 1.500 | 1.22 | 7.500  | 2.44  | 13.500 | 6.10 | 19.50 | 2.44 |
| 1.533 | 1.22 | 7.533  | 2.44  | 13.533 | 6.10 | 19.53 | 2.44 |
| 1.567 | 1.22 | 7.567  | 2.44  | 13.567 | 6.10 | 19.57 | 2.44 |
| 1.600 | 1.22 | 7.600  | 2.44  | 13.600 | 6.11 | 19.60 | 2.44 |
| 1.633 | 1.22 | 7.633  | 2.44  | 13.633 | 6.10 | 19.63 | 1.83 |
| 1.667 | 1.22 | 7.667  | 2.44  | 13.667 | 6.10 | 19.67 | 1.83 |
| 1.700 | 1.22 | 7.700  | 2.44  | 13.700 | 6.10 | 19.70 | 1.83 |
| 1.733 | 1.22 | 7.733  | 2.44  | 13.733 | 6.10 | 19.73 | 1.83 |
| 1.767 | 1.22 | 7.767  | 2.44  | 13.767 | 6.10 | 19.77 | 1.83 |
| 1.800 | 1.22 | 7.800  | 2.44  | 13.800 | 6.11 | 19.80 | 1.83 |
| 1.833 | 1.22 | 7.833  | 2.44  | 13.833 | 6.11 | 19.83 | 2.44 |
| 1.867 | 1.22 | 7.867  | 2.44  | 13.867 | 6.11 | 19.87 | 2.44 |
| 1.900 | 1.22 | 7.900  | 2.44  | 13.900 | 6.11 | 19.90 | 2.44 |
| 1.933 | 1.22 | 7.933  | 2.44  | 13.933 | 6.11 | 19.93 | 2.44 |
| 1.967 | 1.22 | 7.967  | 2.44  | 13.967 | 6.11 | 19.97 | 2.44 |
| 2.000 | 1.22 | 8.000  | 2.44  | 14.000 | 6.10 | 20.00 | 2.44 |
| 2.033 | 1.22 | 8.033  | 3.66  | 14.033 | 3.66 | 20.03 | 1.83 |
| 2.067 | 1.22 | 8.067  | 3.66  | 14.067 | 3.66 | 20.07 | 1.83 |
| 2.100 | 1.22 | 8.100  | 3.66  | 14.100 | 3.66 | 20.10 | 1.83 |
| 2.133 | 1.22 | 8.133  | 3.66  | 14.133 | 3.66 | 20.13 | 1.83 |
| 2.167 | 1.22 | 8.167  | 3.66  | 14.167 | 3.66 | 20.17 | 1.83 |
| 2.200 | 1.22 | 8.200  | 3.66  | 14.200 | 3.66 | 20.20 | 1.83 |
| 2.233 | 1.22 | 8.233  | 3.66  | 14.233 | 3.66 | 20.23 | 1.83 |
| 2.267 | 1.22 | 8.267  | 3.66  | 14.267 | 3.66 | 20.27 | 1.83 |
| 2.300 | 1.22 | 8.300  | 3.66  | 14.300 | 3.66 | 20.30 | 1.83 |
| 2.333 | 1.22 | 8.333  | 3.66  | 14.333 | 3.66 | 20.33 | 1.83 |
| 2.367 | 1.22 | 8.367  | 3.66  | 14.367 | 3.66 | 20.37 | 1.83 |
| 2.400 | 1.22 | 8.400  | 3.66  | 14.400 | 3.66 | 20.40 | 1.83 |
| 2.433 | 1.22 | 8.433  | 3.66  | 14.433 | 3.66 | 20.43 | 1.22 |
| 2.467 | 1.22 | 8.467  | 3.66  | 14.467 | 3.66 | 20.47 | 1.22 |
| 2.500 | 1.22 | 8.500  | 3.66  | 14.500 | 3.66 | 20.50 | 1.22 |
| 2.533 | 1.22 | 8.533  | 3.66  | 14.533 | 3.66 | 20.53 | 1.22 |
| 2.567 | 1.22 | 8.567  | 3.66  | 14.567 | 3.66 | 20.57 | 1.22 |
| 2.600 | 1.22 | 8.600  | 3.66  | 14.600 | 3.66 | 20.60 | 1.22 |
| 2.633 | 1.22 | 8.633  | 3.66  | 14.633 | 3.66 | 20.63 | 1.83 |
| 2.667 | 1.22 | 8.667  | 3.66  | 14.667 | 3.66 | 20.67 | 1.83 |
| 2.700 | 1.22 | 8.700  | 3.66  | 14.700 | 3.66 | 20.70 | 1.83 |
| 2.733 | 1.22 | 8.733  | 3.66  | 14.733 | 3.66 | 20.73 | 1.83 |
| 2.767 | 1.22 | 8.767  | 3.66  | 14.767 | 3.66 | 20.77 | 1.83 |
| 2.800 | 1.22 | 8.800  | 3.66  | 14.800 | 3.66 | 20.80 | 1.83 |
| 2.833 | 1.22 | 8.833  | 3.66  | 14.833 | 3.66 | 20.83 | 1.83 |
| 2.867 | 1.22 | 8.867  | 3.66  | 14.867 | 3.66 | 20.87 | 1.83 |
| 2.900 | 1.22 | 8.900  | 3.66  | 14.900 | 3.66 | 20.90 | 1.83 |
| 2.933 | 1.22 | 8.933  | 3.66  | 14.933 | 3.66 | 20.93 | 1.83 |
| 2.967 | 1.22 | 8.967  | 3.66  | 14.967 | 3.66 | 20.97 | 1.83 |
| 3.000 | 1.22 | 9.000  | 3.66  | 15.000 | 3.66 | 21.00 | 1.83 |
| 3.033 | 1.22 | 9.033  | 3.66  | 15.033 | 3.66 | 21.03 | 1.22 |
| 3.067 | 1.22 | 9.067  | 3.66  | 15.067 | 3.66 | 21.07 | 1.22 |
| 3.100 | 1.22 | 9.100  | 3.66  | 15.100 | 3.66 | 21.10 | 1.22 |
| 3.133 | 1.22 | 9.133  | 3.66  | 15.133 | 3.66 | 21.13 | 1.22 |
| 3.167 | 1.22 | 9.167  | 3.66  | 15.167 | 3.66 | 21.17 | 1.22 |
| 3.200 | 1.22 | 9.200  | 3.66  | 15.200 | 3.66 | 21.20 | 1.22 |
| 3.233 | 1.22 | 9.233  | 3.66  | 15.233 | 3.66 | 21.23 | 1.83 |
| 3.267 | 1.22 | 9.267  | 3.66  | 15.267 | 3.66 | 21.27 | 1.83 |
| 3.300 | 1.22 | 9.300  | 3.66  | 15.300 | 3.66 | 21.30 | 1.83 |
| 3.333 | 1.22 | 9.333  | 3.66  | 15.333 | 3.66 | 21.33 | 1.83 |
| 3.367 | 1.22 | 9.367  | 3.66  | 15.367 | 3.66 | 21.37 | 1.83 |
| 3.400 | 1.22 | 9.400  | 3.66  | 15.400 | 3.66 | 21.40 | 1.83 |
| 3.433 | 1.22 | 9.433  | 3.66  | 15.433 | 3.66 | 21.43 | 1.22 |
| 3.467 | 1.22 | 9.467  | 3.66  | 15.467 | 3.66 | 21.47 | 1.22 |
| 3.500 | 1.22 | 9.500  | 3.66  | 15.500 | 3.66 | 21.50 | 1.22 |
| 3.533 | 1.22 | 9.533  | 3.66  | 15.533 | 3.66 | 21.53 | 1.22 |
| 3.567 | 1.22 | 9.567  | 3.66  | 15.567 | 3.66 | 21.57 | 1.22 |
| 3.600 | 1.22 | 9.600  | 3.66  | 15.600 | 3.66 | 21.60 | 1.22 |
| 3.633 | 1.22 | 9.633  | 3.66  | 15.633 | 3.66 | 21.63 | 1.83 |
| 3.667 | 1.22 | 9.667  | 3.66  | 15.667 | 3.66 | 21.67 | 1.83 |
| 3.700 | 1.22 | 9.700  | 3.66  | 15.700 | 3.66 | 21.70 | 1.83 |
| 3.733 | 1.22 | 9.733  | 3.66  | 15.733 | 3.66 | 21.73 | 1.83 |
| 3.767 | 1.22 | 9.767  | 3.66  | 15.767 | 3.66 | 21.77 | 1.83 |
| 3.800 | 1.22 | 9.800  | 3.66  | 15.800 | 3.66 | 21.80 | 1.83 |
| 3.833 | 1.22 | 9.833  | 3.66  | 15.833 | 3.66 | 21.83 | 1.22 |
| 3.867 | 1.22 | 9.867  | 3.66  | 15.867 | 3.66 | 21.87 | 1.22 |
| 3.900 | 1.22 | 9.900  | 3.66  | 15.900 | 3.66 | 21.90 | 1.22 |
| 3.933 | 1.22 | 9.933  | 3.66  | 15.933 | 3.66 | 21.93 | 1.22 |
| 3.967 | 1.22 | 9.967  | 3.66  | 15.967 | 3.66 | 21.97 | 1.22 |
| 4.000 | 1.22 | 10.000 | 3.66  | 16.000 | 3.66 | 22.00 | 1.22 |
| 4.033 | 2.44 | 10.033 | 6.72  | 16.033 | 3.66 | 22.03 | 1.22 |
| 4.067 | 2.44 | 10.067 | 6.72  | 16.067 | 3.66 | 22.07 | 1.22 |
| 4.100 | 2.44 | 10.100 | 6.72  | 16.100 | 3.66 | 22.10 | 1.22 |
| 4.133 | 2.44 | 10.133 | 6.72  | 16.133 | 3.66 | 22.13 | 1.22 |
| 4.167 | 2.44 | 10.167 | 6.72  | 16.167 | 3.66 | 22.17 | 1.22 |
| 4.200 | 2.44 | 10.200 | 6.72  | 16.200 | 3.66 | 22.20 | 1.22 |
| 4.233 | 2.44 | 10.233 | 6.72  | 16.233 | 3.66 | 22.23 | 1.83 |
| 4.267 | 2.44 | 10.267 | 6.72  | 16.267 | 3.66 | 22.27 | 1.83 |
| 4.300 | 2.44 | 10.300 | 6.72  | 16.300 | 3.66 | 22.30 | 1.83 |
| 4.333 | 2.44 | 10.333 | 6.72  | 16.333 | 3.66 | 22.33 | 1.83 |
| 4.367 | 2.44 | 10.367 | 6.72  | 16.367 | 3.66 | 22.37 | 1.83 |
| 4.400 | 2.44 | 10.400 | 6.72  | 16.400 | 3.66 | 22.40 | 1.83 |
| 4.433 | 2.44 | 10.433 | 6.72  | 16.433 | 3.66 | 22.43 | 1.22 |
| 4.467 | 2.44 | 10.467 | 6.72  | 16.467 | 3.66 | 22.47 | 1.22 |
| 4.500 | 2.44 | 10.500 | 6.72  | 16.500 | 3.66 | 22.50 | 1.22 |
| 4.533 | 2.44 | 10.533 | 6.72  | 16.533 | 3.66 | 22.53 | 1.22 |
| 4.567 | 2.44 | 10.567 | 6.72  | 16.567 | 3.66 | 22.57 | 1.22 |
| 4.600 | 2.44 | 10.600 | 6.72  | 16.600 | 3.66 | 22.60 | 1.22 |
| 4.633 | 2.44 | 10.633 | 6.72  | 16.633 | 3.66 | 22.63 | 1.83 |
| 4.667 | 2.44 | 10.667 | 6.72  | 16.667 | 3.66 | 22.67 | 1.83 |
| 4.700 | 2.44 | 10.700 | 6.72  | 16.700 | 3.66 | 22.70 | 1.83 |
| 4.733 | 2.44 | 10.733 | 6.72  | 16.733 | 3.66 | 22.73 | 1.83 |
| 4.767 | 2.44 | 10.767 | 6.72  | 16.767 | 3.66 | 22.77 | 1.83 |
| 4.800 | 2.44 | 10.800 | 6.72  | 16.800 | 3.66 | 22.80 | 1.83 |
| 4.833 | 2.44 | 10.833 | 6.72  | 16.833 | 1.83 | 22.83 | 1.22 |
| 4.867 | 2.44 | 10.867 | 6.72  | 16.867 | 1.83 | 22.87 | 1.22 |
| 4.900 | 2.44 | 10.900 | 6.72  | 16.900 | 1.83 | 22.90 | 1.22 |
| 4.933 | 2.44 | 10.933 | 6.72  | 16.933 | 1.83 | 22.93 | 1.22 |
| 4.967 | 2.44 | 10.967 | 6.72  | 16.967 | 1.83 | 22.97 | 1.22 |
| 5.000 | 2.44 | 11.000 | 6.72  | 17.000 | 1.83 | 23.00 | 1.22 |
| 5.033 | 2.44 | 11.033 | 9.16  | 17.033 | 1.83 | 23.03 | 1.22 |
| 5.067 | 2.44 | 11.067 | 9.16  | 17.067 | 1.83 | 23.07 | 1.22 |
| 5.100 | 2.44 | 11.100 | 9.16  | 17.100 | 1.83 | 23.10 | 1.22 |
| 5.133 | 2.44 | 11.133 | 9.16  | 17.133 | 1.83 | 23.13 | 1.22 |
| 5.167 | 2.44 | 11.167 | 9.16  | 17.167 | 1.83 | 23.17 | 1.22 |
| 5.200 | 2.44 | 11.200 | 9.16  | 17.200 | 1.83 | 23.20 | 1.22 |
| 5.233 | 2.44 | 11.233 | 13.43 | 17.233 | 2.44 | 23.23 | 1.22 |
| 5.267 | 2.44 | 11.267 | 13.43 | 17.267 | 2.44 | 23.27 | 1.22 |
| 5.300 | 2.44 | 11.300 | 13.43 | 17.300 | 2.44 | 23.30 | 1.22 |

5.333 2.44 11.333 13.43 17.333 2.44 23.33 1.22  
5.367 2.44 11.367 13.43 17.367 2.44 23.37 1.22  
5.400 2.44 11.400 13.45 17.400 2.44 23.40 1.22  
5.433 2.44 11.433 32.36 17.433 1.83 23.43 1.83  
5.467 2.44 11.467 32.36 17.467 1.83 23.47 1.83  
5.500 2.44 11.500 32.36 17.500 1.83 23.50 1.83  
5.533 2.44 11.533 32.36 17.533 1.83 23.53 1.83  
5.567 2.44 11.567 32.36 17.567 1.83 23.57 1.83  
5.600 2.44 11.600 32.40 17.600 1.83 23.60 1.83  
5.633 2.44 11.633 67.16 17.633 2.44 23.63 1.22  
5.667 2.44 11.667 67.16 17.667 2.44 23.67 1.22  
5.700 2.44 11.700 67.16 17.700 2.44 23.70 1.22  
5.733 2.44 11.733 67.16 17.733 2.44 23.73 1.22  
5.767 2.44 11.767 67.16 17.767 2.44 23.77 1.22  
5.800 2.44 11.800 67.25 17.800 2.44 23.80 1.22  
5.833 2.44 11.833 137.36 17.833 1.83 23.83 1.22  
5.867 2.44 11.867 137.36 17.867 1.83 23.87 1.22  
5.900 2.44 11.900 137.36 17.900 1.83 23.90 1.22  
5.933 2.44 11.933 137.36 17.933 1.83 23.93 1.22  
5.967 2.44 11.967 137.36 17.967 1.83 23.97 1.22  
6.000 2.44 12.000 137.21 18.000 1.83 24.00 1.22

Unit Hyd Qpeak (cms)= 0.162

PEAK FLOW (cms)= 0.180 (1)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 86.722  
TOTAL RAINFALL (mm)= 122.099  
RUNOFF COEFFICIENT = 0.710

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0041 )  
1 + 2 = 3  
ID1= 1 ( 0403 ): 2.87 0.620 12.03 76.01  
+ ID2= 2 ( 0404 ): 0.85 0.180 12.10 86.72  
ID = 3 ( 0041 ): 3.72 0.797 12.07 78.45

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD ( 0042 )  
1 + 2 = 3  
ID1= 1 ( 0040 ): 13.55 2.843 12.07 75.92  
+ ID2= 2 ( 0041 ): 3.72 0.797 12.07 78.45  
ID = 3 ( 0042 ): 17.27 3.640 12.07 76.47

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR ( 0202 )  
IN= 2--> OUT= 1  
DT= 2.0 min  
OVERFLOW IS OFF  
OUTFLOW STORAGE OUTFLOW STORAGE  
(cms) (ha.m.) (cms) (ha.m.)  
0.0000 0.0000 1.2700 0.5195  
0.0070 0.0918 1.4910 0.6170  
0.0500 0.1672 1.7350 0.7524  
0.1740 0.2483 2.7110 0.8941  
0.6720 0.3349 5.2440 1.1182  
1.0220 0.4254 0.0000 0.0000  
AREA QPEAK TPEAK R.V.  
(ha) (cms) (hrs) (mm)  
INFLOW : ID= 2 ( 0042 ) 17.270 3.640 12.07 76.47  
OUTFLOW: ID= 1 ( 0202 ) 17.270 1.337 12.37 74.28  
PEAK FLOW REDUCTION [Qout/Qin](%)= 36.74  
TIME SHIFT OF PEAK FLOW (min)= 18.00  
MAXIMUM STORAGE USED (ha.m.)= 0.5468

ADD HYD ( 0080 )  
1 + 2 = 3  
ID1= 1 ( 0202 ): 17.27 1.337 12.37 74.28  
+ ID2= 2 ( 0033 ): 14.33 0.899 12.30 63.96  
ID = 3 ( 0080 ): 31.60 2.232 12.33 69.60

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U A A A A L  
V V I SS U U A A L  
VV I SSSSS UUUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM  
0 0 T T H H Y Y M M 0 0  
0 0 T T H H Y Y M M 0 0  
000 T T H H Y Y M M 000

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\*\*\*\*\* D E T A I L E D O U T P U T \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\577c50d1d-6a10-4f32-be40-83fde9009059\0442bd34-fec7-4a26-bee7-cc423e7bf180\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\577c50d1d-6a10-4f32-be40-83fde9009059\0442bd34-fec7-4a26-bee7-cc423e7bf180\sc

DATE: 09/21/2025 TIME: 03:01:41

USER:

COMMENTS:

\*\*\*\*\*  
\*\* SIMULATION : 5yr 24hr 12min SCS Type II (M \*\*

MASS STORM Filename: C:\Users\hfaulkner\AppData\Local\Temp\732e9928-e126-4c89-9ccf-fd4c260976d9\b8516e43  
Ptotal= 80.70 mm Comments: 24-hour SCS Type-II Mass Storm Curve

Duration of storm = 24.00 hrs  
Mass curve time step = 12.00 min

| TIME | RAIN  | TIME  | RAIN  | TIME  | RAIN  | TIME  | RAIN  |
|------|-------|-------|-------|-------|-------|-------|-------|
| hrs  | mm/hr | hrs   | mm/hr | hrs   | mm/hr | hrs   | mm/hr |
| 0.00 | 0.81  | 6.00  | 1.61  | 12.00 | 16.14 | 18.00 | 1.21  |
| 0.20 | 0.81  | 6.20  | 1.61  | 12.20 | 10.09 | 18.20 | 1.21  |
| 0.40 | 0.81  | 6.40  | 1.61  | 12.40 | 7.26  | 18.40 | 1.61  |
| 0.60 | 0.81  | 6.60  | 1.61  | 12.60 | 6.86  | 18.60 | 1.21  |
| 0.80 | 0.81  | 6.80  | 1.61  | 12.80 | 4.84  | 18.80 | 1.21  |
| 1.00 | 0.81  | 7.00  | 1.61  | 13.00 | 4.03  | 19.00 | 1.61  |
| 1.20 | 0.81  | 7.20  | 1.61  | 13.20 | 4.03  | 19.20 | 1.21  |
| 1.40 | 0.81  | 7.40  | 1.61  | 13.40 | 4.93  | 19.40 | 1.61  |
| 1.60 | 0.81  | 7.60  | 1.61  | 13.60 | 4.03  | 19.60 | 1.21  |
| 1.80 | 0.81  | 7.80  | 1.61  | 13.80 | 4.04  | 19.80 | 1.61  |
| 2.00 | 0.81  | 8.00  | 2.42  | 14.00 | 2.42  | 20.00 | 1.21  |
| 2.20 | 0.81  | 8.20  | 2.42  | 14.20 | 2.42  | 20.20 | 1.21  |
| 2.40 | 0.81  | 8.40  | 2.42  | 14.40 | 2.42  | 20.40 | 0.81  |
| 2.60 | 0.81  | 8.60  | 2.42  | 14.60 | 2.42  | 20.60 | 1.21  |
| 2.80 | 0.81  | 8.80  | 2.42  | 14.80 | 2.42  | 20.80 | 1.21  |
| 3.00 | 0.81  | 9.00  | 2.42  | 15.00 | 2.02  | 21.00 | 0.81  |
| 3.20 | 0.81  | 9.20  | 2.42  | 15.20 | 2.02  | 21.20 | 1.21  |
| 3.40 | 0.81  | 9.40  | 2.42  | 15.40 | 2.02  | 21.40 | 0.81  |
| 3.60 | 0.81  | 9.60  | 2.42  | 15.60 | 2.02  | 21.60 | 1.21  |
| 3.80 | 0.81  | 9.80  | 2.42  | 15.80 | 2.02  | 21.80 | 0.81  |
| 4.00 | 1.61  | 10.00 | 4.44  | 16.00 | 2.02  | 22.00 | 0.81  |
| 4.20 | 1.61  | 10.20 | 4.44  | 16.20 | 2.02  | 22.20 | 1.21  |
| 4.40 | 1.61  | 10.40 | 4.44  | 16.40 | 2.02  | 22.40 | 0.81  |
| 4.60 | 1.61  | 10.60 | 4.44  | 16.60 | 2.02  | 22.60 | 1.21  |
| 4.80 | 1.61  | 10.80 | 4.44  | 16.80 | 1.21  | 22.80 | 0.81  |
| 5.00 | 1.61  | 11.00 | 6.05  | 17.00 | 1.21  | 23.00 | 0.81  |
| 5.20 | 1.61  | 11.20 | 8.88  | 17.20 | 1.61  | 23.20 | 0.81  |
| 5.40 | 1.61  | 11.40 | 21.39 | 17.40 | 1.21  | 23.40 | 1.21  |
| 5.60 | 1.61  | 11.60 | 44.39 | 17.60 | 1.61  | 23.60 | 0.81  |
| 5.80 | 1.61  | 11.80 | 90.79 | 17.80 | 1.21  | 23.80 | 0.81  |

CALIB  
NASHYD ( 0301 )  
ID= 1 DT= 2.0 min  
Area (ha)= 1.19  
Ia (mm)= 6.80  
U.H. Tp(hrs)= 0.24  
Curve Number (CN)= 81.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME  | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
|-------|-------|-------|-------|--------|-------|-------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033 | 0.81  | 6.033 | 1.61  | 12.033 | 16.14 | 18.03 | 1.21  |
| 0.067 | 0.81  | 6.067 | 1.61  | 12.067 | 16.14 | 18.07 | 1.21  |
| 0.100 | 0.81  | 6.100 | 1.61  | 12.100 | 16.14 | 18.10 | 1.21  |
| 0.133 | 0.81  | 6.133 | 1.61  | 12.133 | 16.14 | 18.13 | 1.21  |
| 0.167 | 0.81  | 6.167 | 1.61  | 12.167 | 16.14 | 18.17 | 1.21  |
| 0.200 | 0.81  | 6.200 | 1.61  | 12.200 | 16.13 | 18.20 | 1.21  |
| 0.233 | 0.81  | 6.233 | 1.61  | 12.233 | 10.09 | 18.23 | 1.21  |
| 0.267 | 0.81  | 6.267 | 1.61  | 12.267 | 10.09 | 18.27 | 1.21  |
| 0.300 | 0.81  | 6.300 | 1.61  | 12.300 | 10.09 | 18.30 | 1.21  |
| 0.333 | 0.81  | 6.333 | 1.61  | 12.333 | 10.09 | 18.33 | 1.21  |
| 0.367 | 0.81  | 6.367 | 1.61  | 12.367 | 10.09 | 18.37 | 1.21  |
| 0.400 | 0.81  | 6.400 | 1.61  | 12.400 | 10.08 | 18.40 | 1.21  |
| 0.433 | 0.81  | 6.433 | 1.61  | 12.433 | 7.26  | 18.43 | 1.61  |
| 0.467 | 0.81  | 6.467 | 1.61  | 12.467 | 7.26  | 18.47 | 1.61  |
| 0.500 | 0.81  | 6.500 | 1.61  | 12.500 | 7.26  | 18.50 | 1.61  |
| 0.533 | 0.81  | 6.533 | 1.61  | 12.533 | 7.26  | 18.53 | 1.61  |
| 0.567 | 0.81  | 6.567 | 1.61  | 12.567 | 7.26  | 18.57 | 1.61  |
| 0.600 | 0.81  | 6.600 | 1.61  | 12.600 | 7.26  | 18.60 | 1.61  |
| 0.633 | 0.81  | 6.633 | 1.61  | 12.633 | 6.86  | 18.63 | 1.21  |
| 0.667 | 0.81  | 6.667 | 1.61  | 12.667 | 6.86  | 18.67 | 1.21  |
| 0.700 | 0.81  | 6.700 | 1.61  | 12.700 | 6.86  | 18.70 | 1.21  |
| 0.733 | 0.81  | 6.733 | 1.61  | 12.733 | 6.86  | 18.73 | 1.21  |
| 0.767 | 0.81  | 6.767 | 1.61  | 12.767 | 6.86  | 18.77 | 1.21  |
| 0.800 | 0.81  | 6.800 | 1.61  | 12.800 | 6.86  | 18.80 | 1.21  |
| 0.833 | 0.81  | 6.833 | 1.61  | 12.833 | 4.84  | 18.83 | 1.21  |
| 0.867 | 0.81  | 6.867 | 1.61  | 12.867 | 4.84  | 18.87 | 1.21  |
| 0.900 | 0.81  | 6.900 | 1.61  | 12.900 | 4.84  | 18.90 | 1.21  |
| 0.933 | 0.81  | 6.933 | 1.61  | 12.933 | 4.84  | 18.93 | 1.21  |
| 0.967 | 0.81  | 6.967 | 1.61  | 12.967 | 4.84  | 18.97 | 1.21  |
| 1.000 | 0.81  | 7.000 | 1.61  | 13.000 | 4.84  | 19.00 | 1.21  |
| 1.033 | 0.81  | 7.033 | 1.61  | 13.033 | 4.03  | 19.03 | 1.61  |
| 1.067 | 0.81  | 7.067 | 1.61  | 13.067 | 4.03  | 19.07 | 1.61  |
| 1.100 | 0.81  | 7.100 | 1.61  | 13.100 | 4.03  | 19.10 | 1.61  |
| 1.133 | 0.81  | 7.133 | 1.61  | 13.133 | 4.03  | 19.13 | 1.61  |
| 1.167 | 0.81  | 7.167 | 1.61  | 13.167 | 4.03  | 19.17 | 1.61  |
| 1.200 | 0.81  | 7.200 | 1.61  | 13.200 | 4.04  | 19.20 | 1.61  |
| 1.233 | 0.81  | 7.233 | 1.61  | 13.233 | 4.03  | 19.23 | 1.21  |
| 1.267 | 0.81  | 7.267 | 1.61  | 13.267 | 4.03  | 19.27 | 1.21  |
| 1.300 | 0.81  | 7.300 | 1.61  | 13.300 | 4.03  | 19.30 | 1.21  |
| 1.333 | 0.81  | 7.333 | 1.61  | 13.333 | 4.03  | 19.33 | 1.21  |
| 1.367 | 0.81  | 7.367 | 1.61  | 13.367 | 4.03  | 19.37 | 1.21  |
| 1.400 | 0.81  | 7.400 | 1.61  | 13.400 | 4.04  | 19.40 | 1.21  |
| 1.433 | 0.81  | 7.433 | 1.61  | 13.433 | 4.03  | 19.43 | 1.61  |
| 1.467 | 0.81  | 7.467 | 1.61  | 13.467 | 4.03  | 19.47 | 1.61  |
| 1.500 | 0.81  | 7.500 | 1.61  | 13.500 | 4.03  | 19.50 | 1.61  |
| 1.533 | 0.81  | 7.533 | 1.61  | 13.533 | 4.03  | 19.53 | 1.61  |
| 1.567 | 0.81  | 7.567 | 1.61  | 13.567 | 4.03  | 19.57 | 1.61  |
| 1.600 | 0.81  | 7.600 | 1.61  | 13.600 | 4.04  | 19.60 | 1.61  |
| 1.633 | 0.81  | 7.633 | 1.61  | 13.633 | 4.03  | 19.63 | 1.21  |
| 1.667 | 0.81  | 7.667 | 1.61  | 13.667 | 4.03  | 19.67 | 1.21  |
| 1.700 | 0.81  | 7.700 | 1.61  | 13.700 | 4.03  | 19.70 | 1.21  |
| 1.733 | 0.81  | 7.733 | 1.61  | 13.733 | 4.03  | 19.73 | 1.21  |
| 1.767 | 0.81  | 7.767 | 1.61  | 13.767 | 4.03  | 19.77 | 1.21  |
| 1.800 | 0.81  | 7.800 | 1.61  | 13.800 | 4.04  | 19.80 | 1.21  |
| 1.833 | 0.81  | 7.833 | 1.61  | 13.833 | 4.04  | 19.83 | 1.61  |
| 1.867 | 0.81  | 7.867 | 1.61  | 13.867 | 4.04  | 19.87 | 1.61  |
| 1.900 | 0.81  | 7.900 | 1.61  | 13.900 | 4.04  | 19.90 | 1.61  |
| 1.933 | 0.81  | 7.933 | 1.61  | 13.933 | 4.04  | 19.93 | 1.61  |
| 1.967 | 0.81  | 7.967 | 1.61  | 13.967 | 4.04  | 19.97 | 1.61  |
| 2.000 | 0.81  | 8.000 | 1.61  | 14.000 | 4.03  | 20.00 | 1.61  |
| 2.033 | 0.81  | 8.033 | 2.42  | 14.033 | 2.42  | 20.03 | 1.21  |
| 2.067 | 0.81  | 8.067 | 2.42  | 14.067 | 2.42  | 20.07 | 1.21  |
| 2.100 | 0.81  | 8.100 | 2.42  | 14.100 | 2.42  | 20.10 | 1.21  |
| 2.133 | 0.81  | 8.133 | 2.42  | 14.133 | 2.42  | 20.13 | 1.21  |
| 2.167 | 0.81  | 8.167 | 2.42  | 14.167 | 2.42  | 20.17 | 1.21  |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 2.200 | 0.81 | 8.200  | 2.42  | 14.200 | 2.42 | 20.20 | 1.21 |
| 2.233 | 0.81 | 8.233  | 2.42  | 14.233 | 2.42 | 20.23 | 1.21 |
| 2.267 | 0.81 | 8.267  | 2.42  | 14.267 | 2.42 | 20.27 | 1.21 |
| 2.300 | 0.81 | 8.300  | 2.42  | 14.300 | 2.42 | 20.30 | 1.21 |
| 2.333 | 0.81 | 8.333  | 2.42  | 14.333 | 2.42 | 20.33 | 1.21 |
| 2.367 | 0.81 | 8.367  | 2.42  | 14.367 | 2.42 | 20.37 | 1.21 |
| 2.400 | 0.81 | 8.400  | 2.42  | 14.400 | 2.42 | 20.40 | 1.21 |
| 2.433 | 0.81 | 8.433  | 2.42  | 14.433 | 2.42 | 20.43 | 0.81 |
| 2.467 | 0.81 | 8.467  | 2.42  | 14.467 | 2.42 | 20.47 | 0.81 |
| 2.500 | 0.81 | 8.500  | 2.42  | 14.500 | 2.42 | 20.50 | 0.81 |
| 2.533 | 0.81 | 8.533  | 2.42  | 14.533 | 2.42 | 20.53 | 0.81 |
| 2.567 | 0.81 | 8.567  | 2.42  | 14.567 | 2.42 | 20.57 | 0.81 |
| 2.600 | 0.81 | 8.600  | 2.42  | 14.600 | 2.42 | 20.60 | 0.81 |
| 2.633 | 0.81 | 8.633  | 2.42  | 14.633 | 2.42 | 20.63 | 1.21 |
| 2.667 | 0.81 | 8.667  | 2.42  | 14.667 | 2.42 | 20.67 | 1.21 |
| 2.700 | 0.81 | 8.700  | 2.42  | 14.700 | 2.42 | 20.70 | 1.21 |
| 2.733 | 0.81 | 8.733  | 2.42  | 14.733 | 2.42 | 20.73 | 1.21 |
| 2.767 | 0.81 | 8.767  | 2.42  | 14.767 | 2.42 | 20.77 | 1.21 |
| 2.800 | 0.81 | 8.800  | 2.42  | 14.800 | 2.42 | 20.80 | 1.21 |
| 2.833 | 0.81 | 8.833  | 2.42  | 14.833 | 2.42 | 20.83 | 1.21 |
| 2.867 | 0.81 | 8.867  | 2.42  | 14.867 | 2.42 | 20.87 | 1.21 |
| 2.900 | 0.81 | 8.900  | 2.42  | 14.900 | 2.42 | 20.90 | 1.21 |
| 2.933 | 0.81 | 8.933  | 2.42  | 14.933 | 2.42 | 20.93 | 1.21 |
| 2.967 | 0.81 | 8.967  | 2.42  | 14.967 | 2.42 | 20.97 | 1.21 |
| 3.000 | 0.81 | 9.000  | 2.42  | 15.000 | 2.42 | 21.00 | 1.21 |
| 3.033 | 0.81 | 9.033  | 2.42  | 15.033 | 2.02 | 21.03 | 0.81 |
| 3.067 | 0.81 | 9.067  | 2.42  | 15.067 | 2.02 | 21.07 | 0.81 |
| 3.100 | 0.81 | 9.100  | 2.42  | 15.100 | 2.02 | 21.10 | 0.81 |
| 3.133 | 0.81 | 9.133  | 2.42  | 15.133 | 2.02 | 21.13 | 0.81 |
| 3.167 | 0.81 | 9.167  | 2.42  | 15.167 | 2.02 | 21.17 | 0.81 |
| 3.200 | 0.81 | 9.200  | 2.42  | 15.200 | 2.02 | 21.20 | 0.81 |
| 3.233 | 0.81 | 9.233  | 2.42  | 15.233 | 2.02 | 21.23 | 1.21 |
| 3.267 | 0.81 | 9.267  | 2.42  | 15.267 | 2.02 | 21.27 | 1.21 |
| 3.300 | 0.81 | 9.300  | 2.42  | 15.300 | 2.02 | 21.30 | 1.21 |
| 3.333 | 0.81 | 9.333  | 2.42  | 15.333 | 2.02 | 21.33 | 1.21 |
| 3.367 | 0.81 | 9.367  | 2.42  | 15.367 | 2.02 | 21.37 | 1.21 |
| 3.400 | 0.81 | 9.400  | 2.42  | 15.400 | 2.02 | 21.40 | 1.21 |
| 3.433 | 0.81 | 9.433  | 2.42  | 15.433 | 2.02 | 21.43 | 0.81 |
| 3.467 | 0.81 | 9.467  | 2.42  | 15.467 | 2.02 | 21.47 | 0.81 |
| 3.500 | 0.81 | 9.500  | 2.42  | 15.500 | 2.02 | 21.50 | 0.81 |
| 3.533 | 0.81 | 9.533  | 2.42  | 15.533 | 2.02 | 21.53 | 0.81 |
| 3.567 | 0.81 | 9.567  | 2.42  | 15.567 | 2.02 | 21.57 | 0.81 |
| 3.600 | 0.81 | 9.600  | 2.42  | 15.600 | 2.02 | 21.60 | 0.81 |
| 3.633 | 0.81 | 9.633  | 2.42  | 15.633 | 2.02 | 21.63 | 1.21 |
| 3.667 | 0.81 | 9.667  | 2.42  | 15.667 | 2.02 | 21.67 | 1.21 |
| 3.700 | 0.81 | 9.700  | 2.42  | 15.700 | 2.02 | 21.70 | 1.21 |
| 3.733 | 0.81 | 9.733  | 2.42  | 15.733 | 2.02 | 21.73 | 1.21 |
| 3.767 | 0.81 | 9.767  | 2.42  | 15.767 | 2.02 | 21.77 | 1.21 |
| 3.800 | 0.81 | 9.800  | 2.42  | 15.800 | 2.02 | 21.80 | 1.21 |
| 3.833 | 0.81 | 9.833  | 2.42  | 15.833 | 2.02 | 21.83 | 0.81 |
| 3.867 | 0.81 | 9.867  | 2.42  | 15.867 | 2.02 | 21.87 | 0.81 |
| 3.900 | 0.81 | 9.900  | 2.42  | 15.900 | 2.02 | 21.90 | 0.81 |
| 3.933 | 0.81 | 9.933  | 2.42  | 15.933 | 2.02 | 21.93 | 0.81 |
| 3.967 | 0.81 | 9.967  | 2.42  | 15.967 | 2.02 | 21.97 | 0.81 |
| 4.000 | 0.81 | 10.000 | 2.42  | 16.000 | 2.02 | 22.00 | 0.81 |
| 4.033 | 1.61 | 10.033 | 4.44  | 16.033 | 2.02 | 22.03 | 0.81 |
| 4.067 | 1.61 | 10.067 | 4.44  | 16.067 | 2.02 | 22.07 | 0.81 |
| 4.100 | 1.61 | 10.100 | 4.44  | 16.100 | 2.02 | 22.10 | 0.81 |
| 4.133 | 1.61 | 10.133 | 4.44  | 16.133 | 2.02 | 22.13 | 0.81 |
| 4.167 | 1.61 | 10.167 | 4.44  | 16.167 | 2.02 | 22.17 | 0.81 |
| 4.200 | 1.61 | 10.200 | 4.44  | 16.200 | 2.02 | 22.20 | 0.81 |
| 4.233 | 1.61 | 10.233 | 4.44  | 16.233 | 2.02 | 22.23 | 1.21 |
| 4.267 | 1.61 | 10.267 | 4.44  | 16.267 | 2.02 | 22.27 | 1.21 |
| 4.300 | 1.61 | 10.300 | 4.44  | 16.300 | 2.02 | 22.30 | 1.21 |
| 4.333 | 1.61 | 10.333 | 4.44  | 16.333 | 2.02 | 22.33 | 1.21 |
| 4.367 | 1.61 | 10.367 | 4.44  | 16.367 | 2.02 | 22.37 | 1.21 |
| 4.400 | 1.61 | 10.400 | 4.44  | 16.400 | 2.02 | 22.40 | 1.21 |
| 4.433 | 1.61 | 10.433 | 4.44  | 16.433 | 2.02 | 22.43 | 0.81 |
| 4.467 | 1.61 | 10.467 | 4.44  | 16.467 | 2.02 | 22.47 | 0.81 |
| 4.500 | 1.61 | 10.500 | 4.44  | 16.500 | 2.02 | 22.50 | 0.81 |
| 4.533 | 1.61 | 10.533 | 4.44  | 16.533 | 2.02 | 22.53 | 0.81 |
| 4.567 | 1.61 | 10.567 | 4.44  | 16.567 | 2.02 | 22.57 | 0.81 |
| 4.600 | 1.61 | 10.600 | 4.44  | 16.600 | 2.02 | 22.60 | 0.81 |
| 4.633 | 1.61 | 10.633 | 4.44  | 16.633 | 2.02 | 22.63 | 1.21 |
| 4.667 | 1.61 | 10.667 | 4.44  | 16.667 | 2.02 | 22.67 | 1.21 |
| 4.700 | 1.61 | 10.700 | 4.44  | 16.700 | 2.02 | 22.70 | 1.21 |
| 4.733 | 1.61 | 10.733 | 4.44  | 16.733 | 2.02 | 22.73 | 1.21 |
| 4.767 | 1.61 | 10.767 | 4.44  | 16.767 | 2.02 | 22.77 | 1.21 |
| 4.800 | 1.61 | 10.800 | 4.44  | 16.800 | 2.02 | 22.80 | 1.21 |
| 4.833 | 1.61 | 10.833 | 4.44  | 16.833 | 2.21 | 22.83 | 0.81 |
| 4.867 | 1.61 | 10.867 | 4.44  | 16.867 | 1.21 | 22.87 | 0.81 |
| 4.900 | 1.61 | 10.900 | 4.44  | 16.900 | 1.21 | 22.90 | 0.81 |
| 4.933 | 1.61 | 10.933 | 4.44  | 16.933 | 1.21 | 22.93 | 0.81 |
| 4.967 | 1.61 | 10.967 | 4.44  | 16.967 | 1.21 | 22.97 | 0.81 |
| 5.000 | 1.61 | 11.000 | 4.44  | 17.000 | 1.21 | 23.00 | 0.81 |
| 5.033 | 1.61 | 11.033 | 6.05  | 17.033 | 1.21 | 23.03 | 0.81 |
| 5.067 | 1.61 | 11.067 | 6.05  | 17.067 | 1.21 | 23.07 | 0.81 |
| 5.100 | 1.61 | 11.100 | 6.05  | 17.100 | 1.21 | 23.10 | 0.81 |
| 5.133 | 1.61 | 11.133 | 6.05  | 17.133 | 1.21 | 23.13 | 0.81 |
| 5.167 | 1.61 | 11.167 | 6.05  | 17.167 | 1.21 | 23.17 | 0.81 |
| 5.200 | 1.61 | 11.200 | 6.06  | 17.200 | 1.21 | 23.20 | 0.81 |
| 5.233 | 1.61 | 11.233 | 8.88  | 17.233 | 1.61 | 23.23 | 0.81 |
| 5.267 | 1.61 | 11.267 | 8.88  | 17.267 | 1.61 | 23.27 | 0.81 |
| 5.300 | 1.61 | 11.300 | 8.88  | 17.300 | 1.61 | 23.30 | 0.81 |
| 5.333 | 1.61 | 11.333 | 8.88  | 17.333 | 1.61 | 23.33 | 0.81 |
| 5.367 | 1.61 | 11.367 | 8.88  | 17.367 | 1.61 | 23.37 | 0.81 |
| 5.400 | 1.61 | 11.400 | 8.89  | 17.400 | 1.61 | 23.40 | 0.81 |
| 5.433 | 1.61 | 11.433 | 21.39 | 17.433 | 1.21 | 23.43 | 1.21 |
| 5.467 | 1.61 | 11.467 | 21.39 | 17.467 | 1.21 | 23.47 | 1.21 |
| 5.500 | 1.61 | 11.500 | 21.39 | 17.500 | 1.21 | 23.50 | 1.21 |
| 5.533 | 1.61 | 11.533 | 21.39 | 17.533 | 1.21 | 23.53 | 1.21 |
| 5.567 | 1.61 | 11.567 | 21.39 | 17.567 | 1.21 | 23.57 | 1.21 |
| 5.600 | 1.61 | 11.600 | 21.41 | 17.600 | 1.21 | 23.60 | 1.21 |
| 5.633 | 1.61 | 11.633 | 44.39 | 17.633 | 1.61 | 23.63 | 0.81 |
| 5.667 | 1.61 | 11.667 | 44.39 | 17.667 | 1.61 | 23.67 | 0.81 |
| 5.700 | 1.61 | 11.700 | 44.39 | 17.700 | 1.61 | 23.70 | 0.81 |
| 5.733 | 1.61 | 11.733 | 44.39 | 17.733 | 1.61 | 23.73 | 0.81 |
| 5.767 | 1.61 | 11.767 | 44.39 | 17.767 | 1.61 | 23.77 | 0.81 |
| 5.800 | 1.61 | 11.800 | 44.45 | 17.800 | 1.61 | 23.80 | 0.81 |
| 5.833 | 1.61 | 11.833 | 90.79 | 17.833 | 1.21 | 23.83 | 0.81 |
| 5.867 | 1.61 | 11.867 | 90.79 | 17.867 | 1.21 | 23.87 | 0.81 |
| 5.900 | 1.61 | 11.900 | 90.79 | 17.900 | 1.21 | 23.90 | 0.81 |
| 5.933 | 1.61 | 11.933 | 90.79 | 17.933 | 1.21 | 23.93 | 0.81 |
| 5.967 | 1.61 | 11.967 | 90.79 | 17.967 | 1.21 | 23.97 | 0.81 |
| 6.000 | 1.61 | 12.000 | 90.68 | 18.000 | 1.21 | 24.00 | 0.81 |

|        |          |       |                  |       |      |  |  |
|--------|----------|-------|------------------|-------|------|--|--|
| CALIB  |          |       |                  |       |      |  |  |
| NASHYD | (        | 0302) |                  |       |      |  |  |
| ID=    | 1        | DT=   | 2.0              | min   |      |  |  |
| Area   | (ha)=    | 2.75  | Curve Number     | (CN)= | 81.0 |  |  |
| Ia     | (mm)=    | 6.80  | # of Linear Res. | (N)=  | 3.00 |  |  |
| U.H.   | Tp(hrs)= | 0.21  |                  |       |      |  |  |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |       |       |       |        |       |       |       |      |       |      |       |
|--------------------------------|-------|-------|-------|--------|-------|-------|-------|------|-------|------|-------|
| TIME                           | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  | TIME | RAIN  | TIME | RAIN  |
| hrs                            | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr | hrs  | mm/hr | hrs  | mm/hr |
| 0.033                          | 0.81  | 6.033 | 1.61  | 12.033 | 16.14 | 18.03 | 1.21  |      |       |      |       |
| 0.067                          | 0.81  | 6.067 | 1.61  | 12.067 | 16.14 | 18.07 | 1.21  |      |       |      |       |
| 0.100                          | 0.81  | 6.100 | 1.61  | 12.100 | 16.14 | 18.10 | 1.21  |      |       |      |       |
| 0.133                          | 0.81  | 6.133 | 1.61  | 12.133 | 16.14 | 18.13 | 1.21  |      |       |      |       |
| 0.167                          | 0.81  | 6.167 | 1.61  | 12.167 | 16.14 | 18.17 | 1.21  |      |       |      |       |
| 0.200                          | 0.81  | 6.200 | 1.61  | 12.200 | 16.13 | 18.20 | 1.21  |      |       |      |       |
| 0.233                          | 0.81  | 6.233 | 1.61  | 12.233 | 10.09 | 18.23 | 1.21  |      |       |      |       |
| 0.267                          | 0.81  | 6.267 | 1.61  | 12.267 | 10.09 | 18.27 | 1.21  |      |       |      |       |
| 0.300                          | 0.81  | 6.300 | 1.61  | 12.300 | 10.09 | 18.30 | 1.21  |      |       |      |       |
| 0.333                          | 0.81  | 6.333 | 1.61  | 12.333 | 10.09 | 18.33 | 1.21  |      |       |      |       |
| 0.367                          | 0.81  | 6.367 | 1.61  | 12.367 | 10.09 | 18.37 | 1.21  |      |       |      |       |
| 0.400                          | 0.81  | 6.400 | 1.61  | 12.400 | 10.08 | 18.40 | 1.21  |      |       |      |       |
| 0.433                          | 0.81  | 6.433 | 1.61  | 12.433 | 7.26  | 18.43 | 1.61  |      |       |      |       |
| 0.467                          | 0.81  | 6.467 | 1.61  | 12.467 | 7.26  | 18.47 | 1.61  |      |       |      |       |
| 0.500                          | 0.81  | 6.500 | 1.61  | 12.500 | 7.26  | 18.50 | 1.61  |      |       |      |       |
| 0.533                          | 0.81  | 6.533 | 1.61  | 12.533 | 7.26  | 18.53 | 1.61  |      |       |      |       |
| 0.567                          | 0.81  | 6.567 | 1.61  | 12.567 | 7.26  | 18.57 | 1.61  |      |       |      |       |
| 0.600                          | 0.81  | 6.600 | 1.61  | 12.600 | 7.26  | 18.60 | 1.61  |      |       |      |       |
| 0.633                          | 0.81  | 6.633 | 1.61  | 12.633 | 6.86  | 18.63 | 1.21  |      |       |      |       |
| 0.667                          | 0.81  | 6.667 | 1.61  | 12.667 | 6.86  | 18.67 | 1.21  |      |       |      |       |
| 0.700                          | 0.81  | 6.700 | 1.61  | 12.700 | 6.86  | 18.70 | 1.21  |      |       |      |       |
| 0.733                          | 0.81  | 6.733 | 1.61  | 12.733 | 6.86  | 18.73 | 1.21  |      |       |      |       |
| 0.767                          | 0.81  | 6.767 | 1.61  | 12.767 | 6.86  | 18.77 | 1.21  |      |       |      |       |
| 0.800                          | 0.81  | 6.800 | 1.61  | 12.800 | 6.86  | 18.80 | 1.21  |      |       |      |       |
| 0.833                          | 0.81  | 6.833 | 1.61  | 12.833 | 4.84  | 18.83 | 1.21  |      |       |      |       |
| 0.867                          | 0.81  | 6.867 | 1.61  | 12.867 | 4.84  | 18.87 | 1.21  |      |       |      |       |
| 0.900                          | 0.81  | 6.900 | 1.61  | 12.900 | 4.84  | 18.90 | 1.21  |      |       |      |       |
| 0.933                          | 0.81  | 6.933 | 1.61  | 12.933 | 4.84  | 18.93 | 1.21  |      |       |      |       |
| 0.967                          | 0.81  | 6.967 | 1.61  | 12.967 | 4.84  | 18.97 | 1.21  |      |       |      |       |
| 1.000                          | 0.81  | 7.000 | 1.61  | 13.000 | 4.84  | 19.00 | 1.21  |      |       |      |       |
| 1.033                          | 0.81  | 7.033 | 1.61  | 13.033 | 4.93  | 19.03 | 1.61  |      |       |      |       |
| 1.067                          | 0.81  | 7.067 | 1.61  | 13.067 | 4.93  | 19.07 | 1.61  |      |       |      |       |
| 1.100                          | 0.81  | 7.100 | 1.61  | 13.100 | 4.93  | 19.10 | 1.61  |      |       |      |       |
| 1.133                          | 0.81  | 7.133 | 1.61  | 13.133 | 4.93  | 19.13 | 1.61  |      |       |      |       |
| 1.167                          | 0.81  | 7.167 | 1.61  | 13.167 | 4.93  | 19.17 | 1.61  |      |       |      |       |
| 1.200                          | 0.81  | 7.200 | 1.61  | 13.200 | 4.93  | 19.20 | 1.61  |      |       |      |       |
| 1.233                          | 0.81  | 7.233 | 1.61  | 13.233 | 4.93  | 19.23 | 1.21  |      |       |      |       |
| 1.267                          | 0.81  | 7.267 | 1.61  | 13.267 | 4.93  | 19.27 | 1.21  |      |       |      |       |
| 1.300                          | 0.81  | 7.300 | 1.61  | 13.300 | 4.93  | 19.30 | 1.21  |      |       |      |       |
| 1.333                          | 0.81  | 7.333 | 1.61  | 13.333 | 4.93  | 19.33 | 1.21  |      |       |      |       |
| 1.367                          | 0.81  | 7.367 | 1.61  | 13.367 | 4.93  | 19.37 | 1.21  |      |       |      |       |
| 1.400                          | 0.81  | 7.400 | 1.61  | 13.400 | 4.94  | 19.40 | 1.21  |      |       |      |       |
| 1.433                          | 0.81  | 7.433 | 1.61  | 13.433 | 4.93  | 19.43 | 1.61  |      |       |      |       |
| 1.467                          | 0.81  | 7.467 | 1.61  | 13.467 | 4.93  | 19.47 | 1.61  |      |       |      |       |
| 1.500                          | 0.81  | 7.500 | 1.61  | 13.500 | 4.93  | 19.50 | 1.61  |      |       |      |       |
| 1.533                          | 0.81  | 7.533 | 1.61  | 13.533 | 4.93  | 19.53 | 1.61  |      |       |      |       |
| 1.567                          | 0.81  | 7.567 | 1.61  | 13.567 | 4.93  | 19.57 | 1.61  |      |       |      |       |
| 1.600                          | 0.81  | 7.600 | 1.61  | 13.600 | 4.94  | 19.60 | 1.61  |      |       |      |       |
| 1.633                          | 0.81  | 7.633 | 1.61  | 13.633 | 4.93  | 19.63 | 1.21  |      |       |      |       |
| 1.667                          | 0.81  | 7.667 | 1.61  | 13.667 | 4.93  | 19.67 | 1.21  |      |       |      |       |
| 1.700                          | 0.81  | 7.700 | 1.61  | 13.700 | 4.93  | 19.70 | 1.21  |      |       |      |       |
| 1.733                          | 0.81  | 7.733 | 1.61  | 13.733 | 4.93  | 19.73 | 1.21  |      |       |      |       |
| 1.767                          | 0.81  | 7.767 | 1.61  | 13.767 | 4.93  | 19.77 | 1.21  |      |       |      |       |
| 1.800                          | 0.81  | 7.800 | 1.61  | 13.800 | 4.94  | 19.80 | 1.21  |      |       |      |       |
| 1.833                          | 0.81  | 7.833 | 1.61  | 13.833 | 4.94  | 19.83 | 1.61  |      |       |      |       |
| 1.867                          | 0.81  | 7.867 | 1.61  | 13.867 | 4.94  | 19.87 | 1.61  |      |       |      |       |
| 1.900                          | 0.81  | 7.900 | 1.61  | 13.900 | 4.94  | 19.90 | 1.61  |      |       |      |       |
| 1.933                          | 0.81  | 7.933 | 1.61  | 13.933 | 4.94  | 19.93 | 1.61  |      |       |      |       |
| 1.967                          | 0.81  | 7.967 | 1.61  | 13.967 | 4.94  | 19.97 | 1.61  |      |       |      |       |
| 2.000                          | 0.81  | 8.000 | 1.61  | 14.000 | 4.93  | 20.00 | 1.61  |      |       |      |       |
| 2.033                          | 0.81  | 8.033 | 2.42  | 14.033 | 2.42  | 20.03 | 1.21  |      |       |      |       |
| 2.067                          | 0.81  | 8.067 | 2.42  | 14.067 | 2.42  | 20.07 | 1.21  |      |       |      |       |
| 2.100                          | 0.81  | 8.100 | 2.42  | 14.100 | 2.42  | 20.10 | 1.21  |      |       |      |       |
| 2.133                          | 0.81  | 8.133 | 2.42  | 14.133 | 2.42  | 20.13 | 1.21  |      |       |      |       |
| 2.167                          | 0.81  | 8.167 | 2.42  | 14.167 | 2.42  | 20.17 | 1.21  |      |       |      |       |
| 2.200                          | 0.81  | 8.200 | 2.42  | 14.200 | 2.42  | 20.20 | 1.21  |      |       |      |       |
| 2.233                          | 0.81  | 8.233 | 2.42  | 14.233 | 2.42  | 20.23 | 1.21  |      |       |      |       |
| 2.267                          | 0.81  | 8.267 | 2.42  | 14.267 | 2.42  | 20.27 | 1.21  |      |       |      |       |
| 2.300                          | 0.81  | 8.300 | 2.42  | 14.300 | 2.42  | 20.30 | 1.21  |      |       |      |       |
| 2.333                          | 0.81  | 8.333 | 2.42  | 14.333 | 2.42  | 20.33 | 1.21  |      |       |      |       |
| 2.367                          | 0.81  | 8.367 | 2.42  | 14.367 | 2.42  | 20.37 | 1.21  |      |       |      |       |
| 2.400                          | 0.81  | 8.400 | 2.42  | 14.400 | 2.42  | 20.40 | 1.21  |      |       |      |       |
| 2.433                          | 0.81  | 8.433 | 2.42  | 14.433 | 2.42  | 20.43 | 0.81  |      |       |      |       |
| 2.467                          | 0.81  | 8.467 | 2.42  | 14.467 | 2.42  | 20.47 | 0.81  |      |       |      |       |
| 2.500                          | 0.81  | 8.500 | 2.42  | 14.500 | 2.42  | 20.50 | 0.81  |      |       |      |       |
| 2.533                          | 0.81  | 8.533 | 2.42  | 14.533 | 2.42  | 20.53 | 0.81  |      |       |      |       |
| 2.567                          | 0.81  | 8.567 | 2.42  | 14.567 | 2.42  | 20.57 | 0.81  |      |       |      |       |
| 2.600                          | 0.81  | 8.600 | 2.42  | 14.600 | 2.42  | 20.60 | 0.81  |      |       |      |       |
| 2.633                          | 0.81  | 8.633 | 2.42  | 14.633 | 2.42  | 20.63 | 1.21  |      |       |      |       |
| 2.667                          | 0.81  | 8.667 | 2.42  | 14.667 | 2.42  | 20.67 | 1.21  |      |       |      |       |
| 2.700                          | 0.81  | 8.700 | 2.42  | 14.700 | 2.42  | 20.70 | 1.21  |      |       |      |       |
| 2.733                          | 0.81  | 8.733 | 2.42  | 14.733 | 2.42  | 20.73 | 1.21  |      |       |      |       |
| 2.767                          | 0.81  | 8.767 | 2.42  | 14.767 | 2.42  | 20.77 | 1.21  |      |       |      |       |
| 2.800                          | 0.81  | 8.800 | 2.42  | 14.800 | 2.42  | 20.80 | 1.21  |      |       |      |       |
| 2.833                          | 0.81  | 8.833 | 2.42  | 14.833 | 2.42  | 20.83 | 1.21  |      |       |      |       |
| 2.867                          | 0.81  | 8.867 | 2.42  | 14.867 | 2.42  | 20.87 | 1.21  |      |       |      |       |
| 2.900                          | 0.81  | 8.900 | 2.42  | 14.900 | 2.42  | 20.90 | 1.21  |      |       |      |       |
| 2.933                          | 0.81  | 8.933 | 2.42  | 14.933 | 2.42  | 20.93 | 1.21  |      |       |      |       |
| 2.967                          | 0.81  | 8.967 | 2.42  | 14.967 | 2.42  | 20.97 | 1.21  |      |       |      |       |
| 3.000                          | 0.81  | 9.000 | 2.42  | 15.000 | 2.42  | 21.00 | 1.21  |      |       |      |       |
| 3.033                          | 0.81  | 9.033 | 2.42  | 15.033 | 2.92  | 21.03 | 0.81  |      |       |      |       |
| 3.067                          | 0.81  | 9.067 | 2.42  | 15.067 | 2.92  | 21.07 | 0.81  |      |       |      |       |
| 3.100                          | 0.81  | 9.100 | 2.42  | 15.100 | 2.92  | 21.10 | 0.81  |      |       |      |       |
| 3.133                          | 0.81  | 9.133 | 2.42  | 15.133 | 2.92  | 21.13 | 0.81  |      |       |      |       |
| 3.167                          | 0.81  | 9.167 | 2.42  | 15.167 | 2.92  | 21.17 | 0.81  |      |       |      |       |
| 3.200                          | 0.81  | 9.200 | 2.42  | 15.200 | 2.92  | 21.20 | 0.81  |      |       |      |       |
| 3.233                          | 0.81  | 9.233 | 2.42  | 15.233 | 2.92  | 21.23 | 1.21  |      |       |      |       |
| 3.267                          | 0.81  | 9.267 | 2.42  | 15.267 | 2.92  | 21.27 | 1.21  |      |       |      |       |
| 3.300                          | 0.81  | 9.300 | 2.42  | 15.300 | 2.92  | 21.30 | 1.21  |      |       |      |       |
| 3.333                          | 0.81  | 9.333 | 2.42  | 15.333 | 2.92  | 21.33 | 1.21  |      |       |      |       |
| 3.367                          | 0.81  | 9.367 | 2.42  | 15.367 | 2.92  | 21.37 | 1.21  |      |       |      |       |
| 3.400                          | 0.81  | 9.400 | 2.42  | 15.400 | 2.92  | 21.40 | 1.21  |      |       |      |       |
| 3.433                          | 0.81  | 9.433 | 2.42  | 15.433 | 2.92  | 21.43 | 0.81  |      |       |      |       |
| 3.467                          | 0.81  | 9.467 | 2.42  | 15.467 | 2.92  | 21.47 | 0.81  |      |       |      |       |
| 3.500                          | 0.81  | 9.500 | 2.42  | 15.500 | 2.92  | 21.50 | 0.81  |      |       |      |       |
| 3.533                          | 0.81  | 9.533 | 2.42  | 15.533 | 2.92  | 21.53 | 0.81  |      |       |      |       |
| 3.567                          | 0.81  | 9.567 | 2.42  | 15.567 | 2.92  | 21.57 | 0.81  |      |       |      |       |
| 3.600                          | 0.81  | 9.600 | 2.42  | 15.600 | 2.92  | 21.60 | 0.81  |      |       |      |       |
| 3.633                          | 0.81  | 9.633 | 2.42  | 15.633 | 2.92  | 21.63 | 1.21  |      |       |      |       |
| 3.667                          | 0.81  | 9.667 | 2.42  | 15.667 | 2.92  | 21.67 | 1.21  |      |       |      |       |
| 3.700                          | 0.81  | 9.700 | 2.42  | 15.700 | 2.92  | 21.70 | 1.21  |      |       |      |       |
| 3.733                          | 0.81  | 9.733 | 2.42  | 15.733 | 2.92  | 21.73 | 1.21  |      |       |      |       |
| 3.767                          | 0.81  | 9.767 | 2.42  | 15.767 | 2.92  | 21.77 | 1.21  |      |       |      |       |
| 3.800                          | 0.81  | 9.800 | 2.42  | 15.800 | 2.92  | 21.80 | 1.21  |      |       |      |       |
| 3.833                          | 0.81  | 9.833 | 2.42  | 15.833 | 2.92  | 21.83 | 0.81  |      |       |      |       |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 3.867 | 0.81 | 9.867  | 2.42  | 15.867 | 2.02 | 21.87 | 0.81 |
| 3.900 | 0.81 | 9.900  | 2.42  | 15.900 | 2.02 | 21.90 | 0.81 |
| 3.933 | 0.81 | 9.933  | 2.42  | 15.933 | 2.02 | 21.93 | 0.81 |
| 3.967 | 0.81 | 9.967  | 2.42  | 15.967 | 2.02 | 21.97 | 0.81 |
| 4.000 | 0.81 | 10.000 | 2.42  | 16.000 | 2.02 | 22.00 | 0.81 |
| 4.033 | 1.61 | 10.033 | 4.44  | 16.033 | 2.02 | 22.03 | 0.81 |
| 4.067 | 1.61 | 10.067 | 4.44  | 16.067 | 2.02 | 22.07 | 0.81 |
| 4.100 | 1.61 | 10.100 | 4.44  | 16.100 | 2.02 | 22.10 | 0.81 |
| 4.133 | 1.61 | 10.133 | 4.44  | 16.133 | 2.02 | 22.13 | 0.81 |
| 4.167 | 1.61 | 10.167 | 4.44  | 16.167 | 2.02 | 22.17 | 0.81 |
| 4.200 | 1.61 | 10.200 | 4.44  | 16.200 | 2.02 | 22.20 | 0.81 |
| 4.233 | 1.61 | 10.233 | 4.44  | 16.233 | 2.02 | 22.23 | 1.21 |
| 4.267 | 1.61 | 10.267 | 4.44  | 16.267 | 2.02 | 22.27 | 1.21 |
| 4.300 | 1.61 | 10.300 | 4.44  | 16.300 | 2.02 | 22.30 | 1.21 |
| 4.333 | 1.61 | 10.333 | 4.44  | 16.333 | 2.02 | 22.33 | 1.21 |
| 4.367 | 1.61 | 10.367 | 4.44  | 16.367 | 2.02 | 22.37 | 1.21 |
| 4.400 | 1.61 | 10.400 | 4.44  | 16.400 | 2.02 | 22.40 | 1.21 |
| 4.433 | 1.61 | 10.433 | 4.44  | 16.433 | 2.02 | 22.43 | 0.81 |
| 4.467 | 1.61 | 10.467 | 4.44  | 16.467 | 2.02 | 22.47 | 0.81 |
| 4.500 | 1.61 | 10.500 | 4.44  | 16.500 | 2.02 | 22.50 | 0.81 |
| 4.533 | 1.61 | 10.533 | 4.44  | 16.533 | 2.02 | 22.53 | 0.81 |
| 4.567 | 1.61 | 10.567 | 4.44  | 16.567 | 2.02 | 22.57 | 0.81 |
| 4.600 | 1.61 | 10.600 | 4.44  | 16.600 | 2.02 | 22.60 | 0.81 |
| 4.633 | 1.61 | 10.633 | 4.44  | 16.633 | 2.02 | 22.63 | 1.21 |
| 4.667 | 1.61 | 10.667 | 4.44  | 16.667 | 2.02 | 22.67 | 1.21 |
| 4.700 | 1.61 | 10.700 | 4.44  | 16.700 | 2.02 | 22.70 | 1.21 |
| 4.733 | 1.61 | 10.733 | 4.44  | 16.733 | 2.02 | 22.73 | 1.21 |
| 4.767 | 1.61 | 10.767 | 4.44  | 16.767 | 2.02 | 22.77 | 1.21 |
| 4.800 | 1.61 | 10.800 | 4.44  | 16.800 | 2.02 | 22.80 | 1.21 |
| 4.833 | 1.61 | 10.833 | 4.44  | 16.833 | 1.21 | 22.83 | 0.81 |
| 4.867 | 1.61 | 10.867 | 4.44  | 16.867 | 1.21 | 22.87 | 0.81 |
| 4.900 | 1.61 | 10.900 | 4.44  | 16.900 | 1.21 | 22.90 | 0.81 |
| 4.933 | 1.61 | 10.933 | 4.44  | 16.933 | 1.21 | 22.93 | 0.81 |
| 4.967 | 1.61 | 10.967 | 4.44  | 16.967 | 1.21 | 22.97 | 0.81 |
| 5.000 | 1.61 | 11.000 | 4.44  | 17.000 | 1.21 | 23.00 | 0.81 |
| 5.033 | 1.61 | 11.033 | 6.05  | 17.033 | 1.21 | 23.03 | 0.81 |
| 5.067 | 1.61 | 11.067 | 6.05  | 17.067 | 1.21 | 23.07 | 0.81 |
| 5.100 | 1.61 | 11.100 | 6.05  | 17.100 | 1.21 | 23.10 | 0.81 |
| 5.133 | 1.61 | 11.133 | 6.05  | 17.133 | 1.21 | 23.13 | 0.81 |
| 5.167 | 1.61 | 11.167 | 6.05  | 17.167 | 1.21 | 23.17 | 0.81 |
| 5.200 | 1.61 | 11.200 | 6.06  | 17.200 | 1.21 | 23.20 | 0.81 |
| 5.233 | 1.61 | 11.233 | 8.88  | 17.233 | 1.61 | 23.23 | 0.81 |
| 5.267 | 1.61 | 11.267 | 8.88  | 17.267 | 1.61 | 23.27 | 0.81 |
| 5.300 | 1.61 | 11.300 | 8.88  | 17.300 | 1.61 | 23.30 | 0.81 |
| 5.333 | 1.61 | 11.333 | 8.88  | 17.333 | 1.61 | 23.33 | 0.81 |
| 5.367 | 1.61 | 11.367 | 8.88  | 17.367 | 1.61 | 23.37 | 0.81 |
| 5.400 | 1.61 | 11.400 | 8.89  | 17.400 | 1.61 | 23.40 | 0.81 |
| 5.433 | 1.61 | 11.433 | 21.39 | 17.433 | 1.21 | 23.43 | 1.21 |
| 5.467 | 1.61 | 11.467 | 21.39 | 17.467 | 1.21 | 23.47 | 1.21 |
| 5.500 | 1.61 | 11.500 | 21.39 | 17.500 | 1.21 | 23.50 | 1.21 |
| 5.533 | 1.61 | 11.533 | 21.39 | 17.533 | 1.21 | 23.53 | 1.21 |
| 5.567 | 1.61 | 11.567 | 21.39 | 17.567 | 1.21 | 23.57 | 1.21 |
| 5.600 | 1.61 | 11.600 | 21.41 | 17.600 | 1.21 | 23.60 | 1.21 |
| 5.633 | 1.61 | 11.633 | 44.39 | 17.633 | 1.61 | 23.63 | 0.81 |
| 5.667 | 1.61 | 11.667 | 44.39 | 17.667 | 1.61 | 23.67 | 0.81 |
| 5.700 | 1.61 | 11.700 | 44.39 | 17.700 | 1.61 | 23.70 | 0.81 |
| 5.733 | 1.61 | 11.733 | 44.39 | 17.733 | 1.61 | 23.73 | 0.81 |
| 5.767 | 1.61 | 11.767 | 44.39 | 17.767 | 1.61 | 23.77 | 0.81 |
| 5.800 | 1.61 | 11.800 | 44.45 | 17.800 | 1.61 | 23.80 | 0.81 |
| 5.833 | 1.61 | 11.833 | 90.79 | 17.833 | 1.21 | 23.83 | 0.81 |
| 5.867 | 1.61 | 11.867 | 90.79 | 17.867 | 1.21 | 23.87 | 0.81 |
| 5.900 | 1.61 | 11.900 | 90.79 | 17.900 | 1.21 | 23.90 | 0.81 |
| 5.933 | 1.61 | 11.933 | 90.79 | 17.933 | 1.21 | 23.93 | 0.81 |
| 5.967 | 1.61 | 11.967 | 90.79 | 17.967 | 1.21 | 23.97 | 0.81 |
| 6.000 | 1.61 | 12.000 | 90.68 | 18.000 | 1.21 | 24.00 | 0.81 |

Unit Hyd Qpeak (cms)= 0.500

PEAK FLOW (cms)= 0.270 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 40.912  
TOTAL RAINFALL (mm)= 80.699  
RUNOFF COEFFICIENT = 0.507

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0030)   |              |                |                |              |
|-------------------|--------------|----------------|----------------|--------------|
| 1 + 2 = 3         |              |                |                |              |
|                   | AREA<br>(ha) | QPEAK<br>(cms) | TPEAK<br>(hrs) | R.V.<br>(mm) |
| ID1= 1 ( 0301):   | 1.19         | 0.108          | 12.13          | 40.91        |
| + ID2= 2 ( 0302): | 2.75         | 0.270          | 12.10          | 40.91        |
| =====             |              |                |                |              |
| ID = 3 ( 0030):   | 3.94         | 0.377          | 12.10          | 40.91        |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CALIB             |              |                       |                      |  |
|-------------------|--------------|-----------------------|----------------------|--|
| NASHYD ( 0303)    |              |                       |                      |  |
| ID= 1 DT= 2.0 min |              |                       |                      |  |
|                   | Area<br>(ha) | Curve Number<br>(CN)= | # of Linear Res.(N)= |  |
| U.H. Tp(hrs)=     | 1.14         | 83.0                  | 3.00                 |  |
|                   | 5.60         |                       |                      |  |
|                   | 0.20         |                       |                      |  |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |      |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  | TIME | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr | hrs  | mm/hr |
| 0.033                              | 0.81  | 6.033 | 1.61  | 12.033 | 16.14 | 18.03 | 1.21  |      |       |
| 0.067                              | 0.81  | 6.067 | 1.61  | 12.067 | 16.14 | 18.07 | 1.21  |      |       |
| 0.100                              | 0.81  | 6.100 | 1.61  | 12.100 | 16.14 | 18.10 | 1.21  |      |       |
| 0.133                              | 0.81  | 6.133 | 1.61  | 12.133 | 16.14 | 18.13 | 1.21  |      |       |
| 0.167                              | 0.81  | 6.167 | 1.61  | 12.167 | 16.14 | 18.17 | 1.21  |      |       |
| 0.200                              | 0.81  | 6.200 | 1.61  | 12.200 | 16.13 | 18.20 | 1.21  |      |       |
| 0.233                              | 0.81  | 6.233 | 1.61  | 12.233 | 10.09 | 18.23 | 1.21  |      |       |
| 0.267                              | 0.81  | 6.267 | 1.61  | 12.267 | 10.09 | 18.27 | 1.21  |      |       |
| 0.300                              | 0.81  | 6.300 | 1.61  | 12.300 | 10.09 | 18.30 | 1.21  |      |       |
| 0.333                              | 0.81  | 6.333 | 1.61  | 12.333 | 10.09 | 18.33 | 1.21  |      |       |
| 0.367                              | 0.81  | 6.367 | 1.61  | 12.367 | 10.09 | 18.37 | 1.21  |      |       |
| 0.400                              | 0.81  | 6.400 | 1.61  | 12.400 | 10.08 | 18.40 | 1.21  |      |       |
| 0.433                              | 0.81  | 6.433 | 1.61  | 12.433 | 7.26  | 18.43 | 1.61  |      |       |
| 0.467                              | 0.81  | 6.467 | 1.61  | 12.467 | 7.26  | 18.47 | 1.61  |      |       |
| 0.500                              | 0.81  | 6.500 | 1.61  | 12.500 | 7.26  | 18.50 | 1.61  |      |       |
| 0.533                              | 0.81  | 6.533 | 1.61  | 12.533 | 7.26  | 18.53 | 1.61  |      |       |
| 0.567                              | 0.81  | 6.567 | 1.61  | 12.567 | 7.26  | 18.57 | 1.61  |      |       |
| 0.600                              | 0.81  | 6.600 | 1.61  | 12.600 | 7.26  | 18.60 | 1.61  |      |       |
| 0.633                              | 0.81  | 6.633 | 1.61  | 12.633 | 6.86  | 18.63 | 1.21  |      |       |
| 0.667                              | 0.81  | 6.667 | 1.61  | 12.667 | 6.86  | 18.67 | 1.21  |      |       |
| 0.700                              | 0.81  | 6.700 | 1.61  | 12.700 | 6.86  | 18.70 | 1.21  |      |       |
| 0.733                              | 0.81  | 6.733 | 1.61  | 12.733 | 6.86  | 18.73 | 1.21  |      |       |
| 0.767                              | 0.81  | 6.767 | 1.61  | 12.767 | 6.86  | 18.77 | 1.21  |      |       |
| 0.800                              | 0.81  | 6.800 | 1.61  | 12.800 | 6.86  | 18.80 | 1.21  |      |       |
| 0.833                              | 0.81  | 6.833 | 1.61  | 12.833 | 4.84  | 18.83 | 1.21  |      |       |
| 0.867                              | 0.81  | 6.867 | 1.61  | 12.867 | 4.84  | 18.87 | 1.21  |      |       |

|       |      |        |      |        |      |       |      |
|-------|------|--------|------|--------|------|-------|------|
| 0.900 | 0.81 | 6.900  | 1.61 | 12.900 | 4.84 | 18.90 | 1.21 |
| 0.933 | 0.81 | 6.933  | 1.61 | 12.933 | 4.84 | 18.93 | 1.21 |
| 0.967 | 0.81 | 6.967  | 1.61 | 12.967 | 4.84 | 18.97 | 1.21 |
| 1.000 | 0.81 | 7.000  | 1.61 | 13.000 | 4.84 | 19.00 | 1.21 |
| 1.033 | 0.81 | 7.033  | 1.61 | 13.033 | 4.03 | 19.03 | 1.61 |
| 1.067 | 0.81 | 7.067  | 1.61 | 13.067 | 4.03 | 19.07 | 1.61 |
| 1.100 | 0.81 | 7.100  | 1.61 | 13.100 | 4.03 | 19.10 | 1.61 |
| 1.133 | 0.81 | 7.133  | 1.61 | 13.133 | 4.03 | 19.13 | 1.61 |
| 1.167 | 0.81 | 7.167  | 1.61 | 13.167 | 4.03 | 19.17 | 1.61 |
| 1.200 | 0.81 | 7.200  | 1.61 | 13.200 | 4.04 | 19.20 | 1.61 |
| 1.233 | 0.81 | 7.233  | 1.61 | 13.233 | 4.03 | 19.23 | 1.21 |
| 1.267 | 0.81 | 7.267  | 1.61 | 13.267 | 4.03 | 19.27 | 1.21 |
| 1.300 | 0.81 | 7.300  | 1.61 | 13.300 | 4.03 | 19.30 | 1.21 |
| 1.333 | 0.81 | 7.333  | 1.61 | 13.333 | 4.03 | 19.33 | 1.21 |
| 1.367 | 0.81 | 7.367  | 1.61 | 13.367 | 4.03 | 19.37 | 1.21 |
| 1.400 | 0.81 | 7.400  | 1.61 | 13.400 | 4.04 | 19.40 | 1.21 |
| 1.433 | 0.81 | 7.433  | 1.61 | 13.433 | 4.03 | 19.43 | 1.61 |
| 1.467 | 0.81 | 7.467  | 1.61 | 13.467 | 4.03 | 19.47 | 1.61 |
| 1.500 | 0.81 | 7.500  | 1.61 | 13.500 | 4.03 | 19.50 | 1.61 |
| 1.533 | 0.81 | 7.533  | 1.61 | 13.533 | 4.03 | 19.53 | 1.61 |
| 1.567 | 0.81 | 7.567  | 1.61 | 13.567 | 4.03 | 19.57 | 1.61 |
| 1.600 | 0.81 | 7.600  | 1.61 | 13.600 | 4.04 | 19.60 | 1.61 |
| 1.633 | 0.81 | 7.633  | 1.61 | 13.633 | 4.03 | 19.63 | 1.21 |
| 1.667 | 0.81 | 7.667  | 1.61 | 13.667 | 4.03 | 19.67 | 1.21 |
| 1.700 | 0.81 | 7.700  | 1.61 | 13.700 | 4.03 | 19.70 | 1.21 |
| 1.733 | 0.81 | 7.733  | 1.61 | 13.733 | 4.03 | 19.73 | 1.21 |
| 1.767 | 0.81 | 7.767  | 1.61 | 13.767 | 4.03 | 19.77 | 1.21 |
| 1.800 | 0.81 | 7.800  | 1.61 | 13.800 | 4.04 | 19.80 | 1.21 |
| 1.833 | 0.81 | 7.833  | 1.61 | 13.833 | 4.04 | 19.83 | 1.61 |
| 1.867 | 0.81 | 7.867  | 1.61 | 13.867 | 4.04 | 19.87 | 1.61 |
| 1.900 | 0.81 | 7.900  | 1.61 | 13.900 | 4.04 | 19.90 | 1.61 |
| 1.933 | 0.81 | 7.933  | 1.61 | 13.933 | 4.04 | 19.93 | 1.61 |
| 1.967 | 0.81 | 7.967  | 1.61 | 13.967 | 4.04 | 19.97 | 1.61 |
| 2.000 | 0.81 | 8.000  | 1.61 | 14.000 | 4.03 | 20.00 | 1.61 |
| 2.033 | 0.81 | 8.033  | 2.42 | 14.033 | 2.42 | 20.03 | 1.21 |
| 2.067 | 0.81 | 8.067  | 2.42 | 14.067 | 2.42 | 20.07 | 1.21 |
| 2.100 | 0.81 | 8.100  | 2.42 | 14.100 | 2.42 | 20.10 | 1.21 |
| 2.133 | 0.81 | 8.133  | 2.42 | 14.133 | 2.42 | 20.13 | 1.21 |
| 2.167 | 0.81 | 8.167  | 2.42 | 14.167 | 2.42 | 20.17 | 1.21 |
| 2.200 | 0.81 | 8.200  | 2.42 | 14.200 | 2.42 | 20.20 | 1.21 |
| 2.233 | 0.81 | 8.233  | 2.42 | 14.233 | 2.42 | 20.23 | 1.21 |
| 2.267 | 0.81 | 8.267  | 2.42 | 14.267 | 2.42 | 20.27 | 1.21 |
| 2.300 | 0.81 | 8.300  | 2.42 | 14.300 | 2.42 | 20.30 | 1.21 |
| 2.333 | 0.81 | 8.333  | 2.42 | 14.333 | 2.42 | 20.33 | 1.21 |
| 2.367 | 0.81 | 8.367  | 2.42 | 14.367 | 2.42 | 20.37 | 1.21 |
| 2.400 | 0.81 | 8.400  | 2.42 | 14.400 | 2.42 | 20.40 | 1.21 |
| 2.433 | 0.81 | 8.433  | 2.42 | 14.433 | 2.42 | 20.43 | 0.81 |
| 2.467 | 0.81 | 8.467  | 2.42 | 14.467 | 2.42 | 20.47 | 0.81 |
| 2.500 | 0.81 | 8.500  | 2.42 | 14.500 | 2.42 | 20.50 | 0.81 |
| 2.533 | 0.81 | 8.533  | 2.42 | 14.533 | 2.42 | 20.53 | 0.81 |
| 2.567 | 0.81 | 8.567  | 2.42 | 14.567 | 2.42 | 20.57 | 0.81 |
| 2.600 | 0.81 | 8.600  | 2.42 | 14.600 | 2.42 | 20.60 | 0.81 |
| 2.633 | 0.81 | 8.633  | 2.42 | 14.633 | 2.42 | 20.63 | 1.21 |
| 2.667 | 0.81 | 8.667  | 2.42 | 14.667 | 2.42 | 20.67 | 1.21 |
| 2.700 | 0.81 | 8.700  | 2.42 | 14.700 | 2.42 | 20.70 | 1.21 |
| 2.733 | 0.81 | 8.733  | 2.42 | 14.733 | 2.42 | 20.73 | 1.21 |
| 2.767 | 0.81 | 8.767  | 2.42 | 14.767 | 2.42 | 20.77 | 1.21 |
| 2.800 | 0.81 | 8.800  | 2.42 | 14.800 | 2.42 | 20.80 | 1.21 |
| 2.833 | 0.81 | 8.833  | 2.42 | 14.833 | 2.42 | 20.83 | 1.21 |
| 2.867 | 0.81 | 8.867  | 2.42 | 14.867 | 2.42 | 20.87 | 1.21 |
| 2.900 | 0.81 | 8.900  | 2.42 | 14.900 | 2.42 | 20.90 | 1.21 |
| 2.933 | 0.81 | 8.933  | 2.42 | 14.933 | 2.42 | 20.93 | 1.21 |
| 2.967 | 0.81 | 8.967  | 2.42 | 14.967 | 2.42 | 20.97 | 1.21 |
| 3.000 | 0.81 | 9.000  | 2.42 | 15.000 | 2.42 | 21.00 | 1.21 |
| 3.033 | 0.81 | 9.033  | 2.42 | 15.033 | 2.02 | 21.03 | 0.81 |
| 3.067 | 0.81 | 9.067  | 2.42 | 15.067 | 2.02 | 21.07 | 0.81 |
| 3.100 | 0.81 | 9.100  | 2.42 | 15.100 | 2.02 | 21.10 | 0.81 |
| 3.133 | 0.81 | 9.133  | 2.42 | 15.133 | 2.02 | 21.13 | 0.81 |
| 3.167 | 0.81 | 9.167  | 2.42 | 15.167 | 2.02 | 21.17 | 0.81 |
| 3.200 | 0.81 | 9.200  | 2.42 | 15.200 | 2.02 | 21.20 | 0.81 |
| 3.233 | 0.81 | 9.233  | 2.42 | 15.233 | 2.02 | 21.23 | 1.21 |
| 3.267 | 0.81 | 9.267  | 2.42 | 15.267 | 2.02 | 21.27 | 1.21 |
| 3.300 | 0.81 | 9.300  | 2.42 | 15.300 | 2.02 | 21.30 | 1.21 |
| 3.333 | 0.81 | 9.333  | 2.42 | 15.333 | 2.02 | 21.33 | 1.21 |
| 3.367 | 0.81 | 9.367  | 2.42 | 15.367 | 2.02 | 21.37 | 1.21 |
| 3.400 | 0.81 | 9.400  | 2.42 | 15.400 | 2.02 | 21.40 | 1.21 |
| 3.433 | 0.81 | 9.433  | 2.42 | 15.433 | 2.02 | 21.43 | 0.81 |
| 3.467 | 0.81 | 9.467  | 2.42 | 15.467 | 2.02 | 21.47 | 0.81 |
| 3.500 | 0.81 | 9.500  | 2.42 | 15.500 | 2.02 | 21.50 | 0.81 |
| 3.533 | 0.81 | 9.533  | 2.42 | 15.533 | 2.02 | 21.53 | 0.81 |
| 3.567 | 0.81 | 9.567  | 2.42 | 15.567 | 2.02 | 21.57 | 0.81 |
| 3.600 | 0.81 | 9.600  | 2.42 | 15.600 | 2.02 | 21.60 | 0.81 |
| 3.633 | 0.81 | 9.633  | 2.42 | 15.633 | 2.02 | 21.63 | 1.21 |
| 3.667 | 0.81 | 9.667  | 2.42 | 15.667 | 2.02 | 21.67 | 1.21 |
| 3.700 | 0.81 | 9.700  | 2.42 | 15.700 | 2.02 | 21.70 | 1.21 |
| 3.733 | 0.81 | 9.733  | 2.42 | 15.733 | 2.02 | 21.73 | 1.21 |
| 3.767 | 0.81 | 9.767  | 2.42 | 15.767 | 2.02 | 21.77 | 1.21 |
| 3.800 | 0.81 | 9.800  | 2.42 | 15.800 | 2.02 | 21.80 | 1.21 |
| 3.833 | 0.81 | 9.833  | 2.42 | 15.833 | 2.02 | 21.83 | 0.81 |
| 3.867 | 0.81 | 9.867  | 2.42 | 15.867 | 2.02 | 21.87 | 0.81 |
| 3.900 | 0.81 | 9.900  | 2.42 | 15.900 | 2.02 | 21.90 | 0.81 |
| 3.933 | 0.81 | 9.933  | 2.42 | 15.933 | 2.02 | 21.93 | 0.81 |
| 3.967 | 0.81 | 9.967  | 2.42 | 15.967 | 2.02 | 21.97 | 0.81 |
| 4.000 | 0.81 | 10.000 | 2.42 | 16.000 | 2.02 | 22.00 | 0.81 |
| 4.033 | 1.61 | 10.033 | 4.44 | 16.033 | 2.02 | 22.03 | 0.81 |
| 4.067 | 1.61 | 10.067 | 4.44 | 16.067 | 2.02 | 22.07 | 0.81 |
| 4.100 | 1.61 | 10.100 | 4.44 | 16.100 | 2.02 | 22.10 | 0.81 |
| 4.133 | 1.61 | 10.133 | 4.44 | 16.133 | 2.02 | 22.13 | 0.81 |
| 4.167 | 1.61 | 10.167 | 4.44 | 16.167 | 2.02 | 22.17 | 0.81 |
| 4.200 | 1.61 | 10.200 | 4.44 | 16.200 | 2.02 | 22.20 | 0.81 |
| 4.233 | 1.61 | 10.233 | 4.44 | 16.233 | 2.02 | 22.23 | 1.21 |
| 4.267 | 1.61 | 10.267 | 4.44 | 16.267 | 2.02 | 22.27 | 1.21 |
| 4.300 | 1.61 | 10.300 | 4.44 | 16.300 | 2.02 | 22.30 | 1.21 |
| 4.333 | 1.61 | 10.333 | 4.44 | 16.333 | 2.02 | 22.33 | 1.21 |
| 4.367 | 1.61 | 10.367 | 4.44 | 16.367 | 2.02 | 22.37 | 1.21 |
| 4.400 | 1.61 | 10.400 | 4.44 | 16.400 | 2.02 | 22.40 | 1.21 |
| 4.433 | 1.61 | 10.433 | 4.44 | 16.433 | 2.02 | 22.43 | 0.81 |
| 4.467 | 1.61 | 10.467 | 4.44 | 16.467 | 2.02 | 22.47 | 0.81 |
| 4.500 | 1.61 | 10.500 | 4.44 | 16.500 | 2.02 | 22.50 | 0.81 |
| 4.533 | 1.61 | 10.533 | 4.44 | 16.533 | 2.02 | 22.53 | 0.81 |
| 4.567 | 1.61 | 10.567 | 4.44 | 16.567 | 2.02 | 22.57 | 0.81 |
| 4.600 | 1.61 | 10.600 | 4.44 | 16.600 | 2.02 | 22.60 | 0.81 |
| 4.633 | 1.61 | 10.633 | 4.44 | 16.633 | 2.02 | 22.63 | 1.21 |
| 4.667 | 1.61 | 10.667 | 4.44 | 16.667 | 2.02 | 22.67 | 1.21 |
| 4.700 | 1.61 | 10.700 | 4.44 | 16.700 | 2.02 | 22.70 | 1.21 |
| 4.733 | 1.61 | 10.733 | 4.44 | 16.733 | 2.02 | 22.73 | 1.21 |
| 4.767 | 1.61 | 10.767 | 4.44 | 16.767 | 2.02 | 22.77 | 1.21 |
| 4.800 | 1.61 | 10.800 | 4.44 | 16.800 | 2.02 | 22.80 | 1.21 |
| 4.833 | 1.61 | 10.833 | 4.44 | 16.833 | 1.21 | 22.83 | 0.81 |
| 4.867 | 1.61 | 10.867 | 4.44 | 16.867 | 1.21 | 22.87 | 0.81 |
| 4.900 | 1.61 | 10.900 | 4.44 | 16.900 | 1.21 | 22.90 | 0.81 |
| 4.933 | 1.61 | 10.933 | 4.44 | 16.933 | 1.21 | 22.93 | 0.81 |
| 4.967 | 1.61 | 10.967 | 4.44 | 16.967 | 1.21 | 22.97 | 0.81 |
| 5.000 | 1.61 | 11.000 | 4.44 | 17.000 | 1.21 | 23.00 | 0.81 |
| 5.033 | 1.61 | 11.033 | 6.05 | 17.033 | 1.21 | 23.03 | 0.81 |
| 5.067 | 1.61 | 11.067 | 6.05 | 17.067 | 1.21 | 23.07 | 0.81 |
| 5.100 | 1.61 | 11.100 | 6.05 | 17.100 | 1.21 | 23.10 | 0.81 |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 5.133 | 1.61 | 11.133 | 6.05  | 17.133 | 1.21 | 23.13 | 0.81 |
| 5.167 | 1.61 | 11.167 | 6.05  | 17.167 | 1.21 | 23.17 | 0.81 |
| 5.200 | 1.61 | 11.200 | 6.06  | 17.200 | 1.21 | 23.20 | 0.81 |
| 5.233 | 1.61 | 11.233 | 8.88  | 17.233 | 1.61 | 23.23 | 0.81 |
| 5.267 | 1.61 | 11.267 | 8.88  | 17.267 | 1.61 | 23.27 | 0.81 |
| 5.300 | 1.61 | 11.300 | 8.88  | 17.300 | 1.61 | 23.30 | 0.81 |
| 5.333 | 1.61 | 11.333 | 8.88  | 17.333 | 1.61 | 23.33 | 0.81 |
| 5.367 | 1.61 | 11.367 | 8.88  | 17.367 | 1.61 | 23.37 | 0.81 |
| 5.400 | 1.61 | 11.400 | 8.89  | 17.400 | 1.61 | 23.40 | 0.81 |
| 5.433 | 1.61 | 11.433 | 21.39 | 17.433 | 1.21 | 23.43 | 1.21 |
| 5.467 | 1.61 | 11.467 | 21.39 | 17.467 | 1.21 | 23.47 | 1.21 |
| 5.500 | 1.61 | 11.500 | 21.39 | 17.500 | 1.21 | 23.50 | 1.21 |
| 5.533 | 1.61 | 11.533 | 21.39 | 17.533 | 1.21 | 23.53 | 1.21 |
| 5.567 | 1.61 | 11.567 | 21.39 | 17.567 | 1.21 | 23.57 | 1.21 |
| 5.600 | 1.61 | 11.600 | 21.41 | 17.600 | 1.21 | 23.60 | 1.21 |
| 5.633 | 1.61 | 11.633 | 44.39 | 17.633 | 1.61 | 23.63 | 0.81 |
| 5.667 | 1.61 | 11.667 | 44.39 | 17.667 | 1.61 | 23.67 | 0.81 |
| 5.700 | 1.61 | 11.700 | 44.39 | 17.700 | 1.61 | 23.70 | 0.81 |
| 5.733 | 1.61 | 11.733 | 44.39 | 17.733 | 1.61 | 23.73 | 0.81 |
| 5.767 | 1.61 | 11.767 | 44.39 | 17.767 | 1.61 | 23.77 | 0.81 |
| 5.800 | 1.61 | 11.800 | 44.45 | 17.800 | 1.61 | 23.80 | 0.81 |
| 5.833 | 1.61 | 11.833 | 90.79 | 17.833 | 1.21 | 23.83 | 0.81 |
| 5.867 | 1.61 | 11.867 | 90.79 | 17.867 | 1.21 | 23.87 | 0.81 |
| 5.900 | 1.61 | 11.900 | 90.79 | 17.900 | 1.21 | 23.90 | 0.81 |
| 5.933 | 1.61 | 11.933 | 90.79 | 17.933 | 1.21 | 23.93 | 0.81 |
| 5.967 | 1.61 | 11.967 | 90.79 | 17.967 | 1.21 | 23.97 | 0.81 |
| 6.000 | 1.61 | 12.000 | 90.68 | 18.000 | 1.21 | 24.00 | 0.81 |

Unit Hyd Qpeak (cms)= 0.218

PEAK FLOW (cms)= 0.125 (i)  
TIME TO PEAK (hrs)= 12.100  
RUNOFF VOLUME (mm)= 44.363  
TOTAL RAINFALL (mm)= 80.699  
RUNOFF COEFFICIENT = 0.550

(1) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |      |       |       |       |
|-------------------|------|-------|-------|-------|
| ADD HYD ( 0031)   | AREA | QPEAK | TPEAK | R.V.  |
| 1 + 2 = 3         | (ha) | (cms) | (hrs) | (mm)  |
| ID1= 1 ( 0030):   | 3.94 | 0.377 | 12.10 | 40.91 |
| + ID2= 2 ( 0303): | 1.14 | 0.125 | 12.10 | 44.36 |
| ID = 3 ( 0031):   | 5.08 | 0.502 | 12.10 | 41.69 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                        |                 |         |         |         |
|------------------------|-----------------|---------|---------|---------|
| RESERVOIR( 0201)       | OVERFLOW IS OFF |         |         |         |
| IN= 2--> OUT= 1        | OUTFLOW         | STORAGE | OUTFLOW | STORAGE |
| DT= 2.0 min            | (cms)           | (ha.m.) | (cms)   | (ha.m.) |
|                        | 0.0000          | 0.0000  | 0.0840  | 0.3591  |
|                        | 0.0050          | 0.0623  | 0.0920  | 0.4212  |
|                        | 0.0470          | 0.1654  | 0.5950  | 0.4851  |
|                        | 0.0600          | 0.2596  | 2.6870  | 0.6182  |
|                        | AREA            | QPEAK   | TPEAK   | R.V.    |
|                        | (ha)            | (cms)   | (hrs)   | (mm)    |
| INFLOW : ID= 2 ( 0031) | 5.080           | 0.502   | 12.10   | 41.69   |
| OUTFLOW: ID= 1 ( 0201) | 5.080           | 0.033   | 14.30   | 37.02   |

PEAK FLOW REDUCTION [Qout/Qin](%)= 6.56  
TIME SHIFT OF PEAK FLOW (min)=132.00  
MAXIMUM STORAGE USED (ha.m.)= 0.1309

|                   |               |       |      |                      |      |
|-------------------|---------------|-------|------|----------------------|------|
| CALIB             | Area          | (ha)= | 0.53 | Curve Number (CN)=   | 71.0 |
| NASHYD ( 0502)    | Ia            | (mm)= | 8.00 | # of Linear Res.(N)= | 3.00 |
| ID= 1 DT= 2.0 min | U.H. Tp(hrs)= | 0.22  |      |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED HYETOGRAPH ----- |       |       |       |        |       |       |       |
|------------------------------------|-------|-------|-------|--------|-------|-------|-------|
| TIME                               | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                                | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                              | 0.81  | 6.033 | 1.61  | 12.033 | 16.14 | 18.03 | 1.21  |
| 0.067                              | 0.81  | 6.067 | 1.61  | 12.067 | 16.14 | 18.07 | 1.21  |
| 0.100                              | 0.81  | 6.100 | 1.61  | 12.100 | 16.14 | 18.10 | 1.21  |
| 0.133                              | 0.81  | 6.133 | 1.61  | 12.133 | 16.14 | 18.13 | 1.21  |
| 0.167                              | 0.81  | 6.167 | 1.61  | 12.167 | 16.14 | 18.17 | 1.21  |
| 0.200                              | 0.81  | 6.200 | 1.61  | 12.200 | 16.13 | 18.20 | 1.21  |
| 0.233                              | 0.81  | 6.233 | 1.61  | 12.233 | 10.09 | 18.23 | 1.21  |
| 0.267                              | 0.81  | 6.267 | 1.61  | 12.267 | 10.09 | 18.27 | 1.21  |
| 0.300                              | 0.81  | 6.300 | 1.61  | 12.300 | 10.09 | 18.30 | 1.21  |
| 0.333                              | 0.81  | 6.333 | 1.61  | 12.333 | 10.09 | 18.33 | 1.21  |
| 0.367                              | 0.81  | 6.367 | 1.61  | 12.367 | 10.09 | 18.37 | 1.21  |
| 0.400                              | 0.81  | 6.400 | 1.61  | 12.400 | 10.08 | 18.40 | 1.21  |
| 0.433                              | 0.81  | 6.433 | 1.61  | 12.433 | 7.26  | 18.43 | 1.61  |
| 0.467                              | 0.81  | 6.467 | 1.61  | 12.467 | 7.26  | 18.47 | 1.61  |
| 0.500                              | 0.81  | 6.500 | 1.61  | 12.500 | 7.26  | 18.50 | 1.61  |
| 0.533                              | 0.81  | 6.533 | 1.61  | 12.533 | 7.26  | 18.53 | 1.61  |
| 0.567                              | 0.81  | 6.567 | 1.61  | 12.567 | 7.26  | 18.57 | 1.61  |
| 0.600                              | 0.81  | 6.600 | 1.61  | 12.600 | 7.26  | 18.60 | 1.61  |
| 0.633                              | 0.81  | 6.633 | 1.61  | 12.633 | 6.86  | 18.63 | 1.21  |
| 0.667                              | 0.81  | 6.667 | 1.61  | 12.667 | 6.86  | 18.67 | 1.21  |
| 0.700                              | 0.81  | 6.700 | 1.61  | 12.700 | 6.86  | 18.70 | 1.21  |
| 0.733                              | 0.81  | 6.733 | 1.61  | 12.733 | 6.86  | 18.73 | 1.21  |
| 0.767                              | 0.81  | 6.767 | 1.61  | 12.767 | 6.86  | 18.77 | 1.21  |
| 0.800                              | 0.81  | 6.800 | 1.61  | 12.800 | 6.86  | 18.80 | 1.21  |
| 0.833                              | 0.81  | 6.833 | 1.61  | 12.833 | 4.84  | 18.83 | 1.21  |
| 0.867                              | 0.81  | 6.867 | 1.61  | 12.867 | 4.84  | 18.87 | 1.21  |
| 0.900                              | 0.81  | 6.900 | 1.61  | 12.900 | 4.84  | 18.90 | 1.21  |
| 0.933                              | 0.81  | 6.933 | 1.61  | 12.933 | 4.84  | 18.93 | 1.21  |
| 0.967                              | 0.81  | 6.967 | 1.61  | 12.967 | 4.84  | 18.97 | 1.21  |
| 1.000                              | 0.81  | 7.000 | 1.61  | 13.000 | 4.84  | 19.00 | 1.21  |
| 1.033                              | 0.81  | 7.033 | 1.61  | 13.033 | 4.03  | 19.03 | 1.61  |
| 1.067                              | 0.81  | 7.067 | 1.61  | 13.067 | 4.03  | 19.07 | 1.61  |
| 1.100                              | 0.81  | 7.100 | 1.61  | 13.100 | 4.03  | 19.10 | 1.61  |
| 1.133                              | 0.81  | 7.133 | 1.61  | 13.133 | 4.03  | 19.13 | 1.61  |
| 1.167                              | 0.81  | 7.167 | 1.61  | 13.167 | 4.03  | 19.17 | 1.61  |
| 1.200                              | 0.81  | 7.200 | 1.61  | 13.200 | 4.04  | 19.20 | 1.61  |
| 1.233                              | 0.81  | 7.233 | 1.61  | 13.233 | 4.03  | 19.23 | 1.21  |
| 1.267                              | 0.81  | 7.267 | 1.61  | 13.267 | 4.03  | 19.27 | 1.21  |
| 1.300                              | 0.81  | 7.300 | 1.61  | 13.300 | 4.03  | 19.30 | 1.21  |
| 1.333                              | 0.81  | 7.333 | 1.61  | 13.333 | 4.03  | 19.33 | 1.21  |
| 1.367                              | 0.81  | 7.367 | 1.61  | 13.367 | 4.03  | 19.37 | 1.21  |
| 1.400                              | 0.81  | 7.400 | 1.61  | 13.400 | 4.04  | 19.40 | 1.21  |
| 1.433                              | 0.81  | 7.433 | 1.61  | 13.433 | 4.03  | 19.43 | 1.61  |
| 1.467                              | 0.81  | 7.467 | 1.61  | 13.467 | 4.03  | 19.47 | 1.61  |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 1.500 | 0.81 | 7.500  | 1.61  | 13.500 | 4.03 | 19.50 | 1.61 |
| 1.533 | 0.81 | 7.533  | 1.61  | 13.533 | 4.03 | 19.53 | 1.61 |
| 1.567 | 0.81 | 7.567  | 1.61  | 13.567 | 4.03 | 19.57 | 1.61 |
| 1.600 | 0.81 | 7.600  | 1.61  | 13.600 | 4.04 | 19.60 | 1.61 |
| 1.633 | 0.81 | 7.633  | 1.61  | 13.633 | 4.03 | 19.63 | 1.21 |
| 1.667 | 0.81 | 7.667  | 1.61  | 13.667 | 4.03 | 19.67 | 1.21 |
| 1.700 | 0.81 | 7.700  | 1.61  | 13.700 | 4.03 | 19.70 | 1.21 |
| 1.733 | 0.81 | 7.733  | 1.61  | 13.733 | 4.03 | 19.73 | 1.21 |
| 1.767 | 0.81 | 7.767  | 1.61  | 13.767 | 4.03 | 19.77 | 1.21 |
| 1.800 | 0.81 | 7.800  | 1.61  | 13.800 | 4.04 | 19.80 | 1.21 |
| 1.833 | 0.81 | 7.833  | 1.61  | 13.833 | 4.04 | 19.83 | 1.61 |
| 1.867 | 0.81 | 7.867  | 1.61  | 13.867 | 4.04 | 19.87 | 1.61 |
| 1.900 | 0.81 | 7.900  | 1.61  | 13.900 | 4.04 | 19.90 | 1.61 |
| 1.933 | 0.81 | 7.933  | 1.61  | 13.933 | 4.04 | 19.93 | 1.61 |
| 1.967 | 0.81 | 7.967  | 1.61  | 13.967 | 4.04 | 19.97 | 1.61 |
| 2.000 | 0.81 | 8.000  | 1.61  | 14.000 | 4.03 | 20.00 | 1.61 |
| 2.033 | 0.81 | 8.033  | 2.42  | 14.033 | 2.42 | 20.03 | 1.21 |
| 2.067 | 0.81 | 8.067  | 2.42  | 14.067 | 2.42 | 20.07 | 1.21 |
| 2.100 | 0.81 | 8.100  | 2.42  | 14.100 | 2.42 | 20.10 | 1.21 |
| 2.133 | 0.81 | 8.133  | 2.42  | 14.133 | 2.42 | 20.13 | 1.21 |
| 2.167 | 0.81 | 8.167  | 2.42  | 14.167 | 2.42 | 20.17 | 1.21 |
| 2.200 | 0.81 | 8.200  | 2.42  | 14.200 | 2.42 | 20.20 | 1.21 |
| 2.233 | 0.81 | 8.233  | 2.42  | 14.233 | 2.42 | 20.23 | 1.21 |
| 2.267 | 0.81 | 8.267  | 2.42  | 14.267 | 2.42 | 20.27 | 1.21 |
| 2.300 | 0.81 | 8.300  | 2.42  | 14.300 | 2.42 | 20.30 | 1.21 |
| 2.333 | 0.81 | 8.333  | 2.42  | 14.333 | 2.42 | 20.33 | 1.21 |
| 2.367 | 0.81 | 8.367  | 2.42  | 14.367 | 2.42 | 20.37 | 1.21 |
| 2.400 | 0.81 | 8.400  | 2.42  | 14.400 | 2.42 | 20.40 | 1.21 |
| 2.433 | 0.81 | 8.433  | 2.42  | 14.433 | 2.42 | 20.43 | 0.81 |
| 2.467 | 0.81 | 8.467  | 2.42  | 14.467 | 2.42 | 20.47 | 0.81 |
| 2.500 | 0.81 | 8.500  | 2.42  | 14.500 | 2.42 | 20.50 | 0.81 |
| 2.533 | 0.81 | 8.533  | 2.42  | 14.533 | 2.42 | 20.53 | 0.81 |
| 2.567 | 0.81 | 8.567  | 2.42  | 14.567 | 2.42 | 20.57 | 0.81 |
| 2.600 | 0.81 | 8.600  | 2.42  | 14.600 | 2.42 | 20.60 | 0.81 |
| 2.633 | 0.81 | 8.633  | 2.42  | 14.633 | 2.42 | 20.63 | 1.21 |
| 2.667 | 0.81 | 8.667  | 2.42  | 14.667 | 2.42 | 20.67 | 1.21 |
| 2.700 | 0.81 | 8.700  | 2.42  | 14.700 | 2.42 | 20.70 | 1.21 |
| 2.733 | 0.81 | 8.733  | 2.42  | 14.733 | 2.42 | 20.73 | 1.21 |
| 2.767 | 0.81 | 8.767  | 2.42  | 14.767 | 2.42 | 20.77 | 1.21 |
| 2.800 | 0.81 | 8.800  | 2.42  | 14.800 | 2.42 | 20.80 | 1.21 |
| 2.833 | 0.81 | 8.833  | 2.42  | 14.833 | 2.42 | 20.83 | 1.21 |
| 2.867 | 0.81 | 8.867  | 2.42  | 14.867 | 2.42 | 20.87 | 1.21 |
| 2.900 | 0.81 | 8.900  | 2.42  | 14.900 | 2.42 | 20.90 | 1.21 |
| 2.933 | 0.81 | 8.933  | 2.42  | 14.933 | 2.42 | 20.93 | 1.21 |
| 2.967 | 0.81 | 8.967  | 2.42  | 14.967 | 2.42 | 20.97 | 1.21 |
| 3.000 | 0.81 | 9.000  | 2.42  | 15.000 | 2.42 | 21.00 | 1.21 |
| 3.033 | 0.81 | 9.033  | 2.42  | 15.033 | 2.02 | 21.03 | 0.81 |
| 3.067 | 0.81 | 9.067  | 2.42  | 15.067 | 2.02 | 21.07 | 0.81 |
| 3.100 | 0.81 | 9.100  | 2.42  | 15.100 | 2.02 | 21.10 | 0.81 |
| 3.133 | 0.81 | 9.133  | 2.42  | 15.133 | 2.02 | 21.13 | 0.81 |
| 3.167 | 0.81 | 9.167  | 2.42  | 15.167 | 2.02 | 21.17 | 0.81 |
| 3.200 | 0.81 | 9.200  | 2.42  | 15.200 | 2.02 | 21.20 | 0.81 |
| 3.233 | 0.81 | 9.233  | 2.42  | 15.233 | 2.02 | 21.23 | 1.21 |
| 3.267 | 0.81 | 9.267  | 2.42  | 15.267 | 2.02 | 21.27 | 1.21 |
| 3.300 | 0.81 | 9.300  | 2.42  | 15.300 | 2.02 | 21.30 | 1.21 |
| 3.333 | 0.81 | 9.333  | 2.42  | 15.333 | 2.02 | 21.33 | 1.21 |
| 3.367 | 0.81 | 9.367  | 2.42  | 15.367 | 2.02 | 21.37 | 1.21 |
| 3.400 | 0.81 | 9.400  | 2.42  | 15.400 | 2.02 | 21.40 | 1.21 |
| 3.433 | 0.81 | 9.433  | 2.42  | 15.433 | 2.02 | 21.43 | 0.81 |
| 3.467 | 0.81 | 9.467  | 2.42  | 15.467 | 2.02 | 21.47 | 0.81 |
| 3.500 | 0.81 | 9.500  | 2.42  | 15.500 | 2.02 | 21.50 | 0.81 |
| 3.533 | 0.81 | 9.533  | 2.42  | 15.533 | 2.02 | 21.53 | 0.81 |
| 3.567 | 0.81 | 9.567  | 2.42  | 15.567 | 2.02 | 21.57 | 0.81 |
| 3.600 | 0.81 | 9.600  | 2.42  | 15.600 | 2.02 | 21.60 | 0.81 |
| 3.633 | 0.81 | 9.633  | 2.42  | 15.633 | 2.02 | 21.63 | 1.21 |
| 3.667 | 0.81 | 9.667  | 2.42  | 15.667 | 2.02 | 21.67 | 1.21 |
| 3.700 | 0.81 | 9.700  | 2.42  | 15.700 | 2.02 | 21.70 | 1.21 |
| 3.733 | 0.81 | 9.733  | 2.42  | 15.733 | 2.02 | 21.73 | 1.21 |
| 3.767 | 0.81 | 9.767  | 2.42  | 15.767 | 2.02 | 21.77 | 1.21 |
| 3.800 | 0.81 | 9.800  | 2.42  | 15.800 | 2.02 | 21.80 | 1.21 |
| 3.833 | 0.81 | 9.833  | 2.42  | 15.833 | 2.02 | 21.83 | 0.81 |
| 3.867 | 0.81 | 9.867  | 2.42  | 15.867 | 2.02 | 21.87 | 0.81 |
| 3.900 | 0.81 | 9.900  | 2.42  | 15.900 | 2.02 | 21.90 | 0.81 |
| 3.933 | 0.81 | 9.933  | 2.42  | 15.933 | 2.02 | 21.93 | 0.81 |
| 3.967 | 0.81 | 9.967  | 2.42  | 15.967 | 2.02 | 21.97 | 0.81 |
| 4.000 | 0.81 | 10.000 | 2.42  | 16.000 | 2.02 | 22.00 | 0.81 |
| 4.033 | 1.61 | 10.033 | 4.44  | 16.033 | 2.02 | 22.03 | 0.81 |
| 4.067 | 1.61 | 10.067 | 4.44  | 16.067 | 2.02 | 22.07 | 0.81 |
| 4.100 | 1.61 | 10.100 | 4.44  | 16.100 | 2.02 | 22.10 | 0.81 |
| 4.133 | 1.61 | 10.133 | 4.44  | 16.133 | 2.02 | 22.13 | 0.81 |
| 4.167 | 1.61 | 10.167 | 4.44  | 16.167 | 2.02 | 22.17 | 0.81 |
| 4.200 | 1.61 | 10.200 | 4.44  | 16.200 | 2.02 | 22.20 | 0.81 |
| 4.233 | 1.61 | 10.233 | 4.44  | 16.233 | 2.02 | 22.23 | 1.21 |
| 4.267 | 1.61 | 10.267 | 4.44  | 16.267 | 2.02 | 22.27 | 1.21 |
| 4.300 | 1.61 | 10.300 | 4.44  | 16.300 | 2.02 | 22.30 | 1.21 |
| 4.333 | 1.61 | 10.333 | 4.44  | 16.333 | 2.02 | 22.33 | 1.21 |
| 4.367 | 1.61 | 10.367 | 4.44  | 16.367 | 2.02 | 22.37 | 1.21 |
| 4.400 | 1.61 | 10.400 | 4.44  | 16.400 | 2.02 | 22.40 | 1.21 |
| 4.433 | 1.61 | 10.433 | 4.44  | 16.433 | 2.02 | 22.43 | 0.81 |
| 4.467 | 1.61 | 10.467 | 4.44  | 16.467 | 2.02 | 22.47 | 0.81 |
| 4.500 | 1.61 | 10.500 | 4.44  | 16.500 | 2.02 | 22.50 | 0.81 |
| 4.533 | 1.61 | 10.533 | 4.44  | 16.533 | 2.02 | 22.53 | 0.81 |
| 4.567 | 1.61 | 10.567 | 4.44  | 16.567 | 2.02 | 22.57 | 0.81 |
| 4.600 | 1.61 | 10.600 | 4.44  | 16.600 | 2.02 | 22.60 | 0.81 |
| 4.633 | 1.61 | 10.633 | 4.44  | 16.633 | 2.02 | 22.63 | 1.21 |
| 4.667 | 1.61 | 10.667 | 4.44  | 16.667 | 2.02 | 22.67 | 1.21 |
| 4.700 | 1.61 | 10.700 | 4.44  | 16.700 | 2.02 | 22.70 | 1.21 |
| 4.733 | 1.61 | 10.733 | 4.44  | 16.733 | 2.02 | 22.73 | 1.21 |
| 4.767 | 1.61 | 10.767 | 4.44  | 16.767 | 2.02 | 22.77 | 1.21 |
| 4.800 | 1.61 | 10.800 | 4.44  | 16.800 | 2.02 | 22.80 | 1.21 |
| 4.833 | 1.61 | 10.833 | 4.44  | 16.833 | 1.21 | 22.83 | 0.81 |
| 4.867 | 1.61 | 10.867 | 4.44  | 16.867 | 1.21 | 22.87 | 0.81 |
| 4.900 | 1.61 | 10.900 | 4.44  | 16.900 | 1.21 | 22.90 | 0.81 |
| 4.933 | 1.61 | 10.933 | 4.44  | 16.933 | 1.21 | 22.93 | 0.81 |
| 4.967 | 1.61 | 10.967 | 4.44  | 16.967 | 1.21 | 22.97 | 0.81 |
| 5.000 | 1.61 | 11.000 | 4.44  | 17.000 | 1.21 | 23.00 | 0.81 |
| 5.033 | 1.61 | 11.033 | 6.05  | 17.033 | 1.21 | 23.03 | 0.81 |
| 5.067 | 1.61 | 11.067 | 6.05  | 17.067 | 1.21 | 23.07 | 0.81 |
| 5.100 | 1.61 | 11.100 | 6.05  | 17.100 | 1.21 | 23.10 | 0.81 |
| 5.133 | 1.61 | 11.133 | 6.05  | 17.133 | 1.21 | 23.13 | 0.81 |
| 5.167 | 1.61 | 11.167 | 6.05  | 17.167 | 1.21 | 23.17 | 0.81 |
| 5.200 | 1.61 | 11.200 | 6.06  | 17.200 | 1.21 | 23.20 | 0.81 |
| 5.233 | 1.61 | 11.233 | 8.88  | 17.233 | 1.61 | 23.23 | 0.81 |
| 5.267 | 1.61 | 11.267 | 8.88  | 17.267 | 1.61 | 23.27 | 0.81 |
| 5.300 | 1.61 | 11.300 | 8.88  | 17.300 | 1.61 | 23.30 | 0.81 |
| 5.333 | 1.61 | 11.333 | 8.88  | 17.333 | 1.61 | 23.33 | 0.81 |
| 5.367 | 1.61 | 11.367 | 8.88  | 17.367 | 1.61 | 23.37 | 0.81 |
| 5.400 | 1.61 | 11.400 | 8.89  | 17.400 | 1.61 | 23.40 | 0.81 |
| 5.433 | 1.61 | 11.433 | 21.39 | 17.433 | 1.21 | 23.43 | 1.21 |
| 5.467 | 1.61 | 11.467 | 21.39 | 17.467 | 1.21 | 23.47 | 1.21 |
| 5.500 | 1.61 | 11.500 | 21.39 | 17.500 | 1.21 | 23.50 | 1.21 |
| 5.533 | 1.61 | 11.533 | 21.39 | 17.533 | 1.21 | 23.53 | 1.21 |
| 5.567 | 1.61 | 11.567 | 21.39 | 17.567 | 1.21 | 23.57 | 1.21 |
| 5.600 | 1.61 | 11.600 | 21.41 | 17.600 | 1.21 | 23.60 | 1.21 |
| 5.633 | 1.61 | 11.633 | 44.39 | 17.633 | 1.61 | 23.63 | 0.81 |
| 5.667 | 1.61 | 11.667 | 44.39 | 17.667 | 1.61 | 23.67 | 0.81 |
| 5.700 | 1.61 | 11.700 | 44.39 | 17.700 | 1.61 | 23.70 | 0.81 |

5.733 1.61 11.733 44.39 17.733 1.61 23.73 0.81  
5.767 1.61 11.767 44.39 17.767 1.61 23.77 0.81  
5.800 1.61 11.800 44.45 17.800 1.61 23.80 0.81  
5.833 1.61 11.833 90.79 17.833 1.21 23.83 0.81  
5.867 1.61 11.867 90.79 17.867 1.21 23.87 0.81  
5.900 1.61 11.900 90.79 17.900 1.21 23.90 0.81  
5.933 1.61 11.933 90.79 17.933 1.21 23.93 0.81  
5.967 1.61 11.967 90.79 17.967 1.21 23.97 0.81  
6.000 1.61 12.000 90.68 18.000 1.21 24.00 0.81

Unit Hyd Qpeak (cms)= 0.092

PEAK FLOW (cms)= 0.036 (i)  
TIME TO PEAK (hrs)= 12.133  
RUNOFF VOLUME (mm)= 29.952  
TOTAL RAINFALL (mm)= 80.699  
RUNOFF COEFFICIENT = 0.371

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB (0501) | Area (ha)= 8.72 Curve Number (CN)= 71.0  
NASHYD (0501) | Ia (mm)= 8.00 # of Linear Res.(N)= 3.00  
ID= 1 DT= 2.0 min | U.H. Tp(hrs)= 0.42

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr ' hrs mm/hr hrs mm/hr  
0.033 0.81 6.033 1.61 12.033 16.14 18.03 1.21  
0.067 0.81 6.067 1.61 12.067 16.14 18.07 1.21  
0.100 0.81 6.100 1.61 12.100 16.14 18.10 1.21  
0.133 0.81 6.133 1.61 12.133 16.14 18.13 1.21  
0.167 0.81 6.167 1.61 12.167 16.14 18.17 1.21  
0.200 0.81 6.200 1.61 12.200 16.13 18.20 1.21  
0.233 0.81 6.233 1.61 12.233 10.09 18.23 1.21  
0.267 0.81 6.267 1.61 12.267 10.09 18.27 1.21  
0.300 0.81 6.300 1.61 12.300 10.09 18.30 1.21  
0.333 0.81 6.333 1.61 12.333 10.09 18.33 1.21  
0.367 0.81 6.367 1.61 12.367 10.09 18.37 1.21  
0.400 0.81 6.400 1.61 12.400 10.08 18.40 1.21  
0.433 0.81 6.433 1.61 12.433 7.26 18.43 1.61  
0.467 0.81 6.467 1.61 12.467 7.26 18.47 1.61  
0.500 0.81 6.500 1.61 12.500 7.26 18.50 1.61  
0.533 0.81 6.533 1.61 12.533 7.26 18.53 1.61  
0.567 0.81 6.567 1.61 12.567 7.26 18.57 1.61  
0.600 0.81 6.600 1.61 12.600 7.26 18.60 1.61  
0.633 0.81 6.633 1.61 12.633 6.86 18.63 1.21  
0.667 0.81 6.667 1.61 12.667 6.86 18.67 1.21  
0.700 0.81 6.700 1.61 12.700 6.86 18.70 1.21  
0.733 0.81 6.733 1.61 12.733 6.86 18.73 1.21  
0.767 0.81 6.767 1.61 12.767 6.86 18.77 1.21  
0.800 0.81 6.800 1.61 12.800 6.86 18.80 1.21  
0.833 0.81 6.833 1.61 12.833 4.84 18.83 1.21  
0.867 0.81 6.867 1.61 12.867 4.84 18.87 1.21  
0.900 0.81 6.900 1.61 12.900 4.84 18.90 1.21  
0.933 0.81 6.933 1.61 12.933 4.84 18.93 1.21  
0.967 0.81 6.967 1.61 12.967 4.84 18.97 1.21  
1.000 0.81 7.000 1.61 13.000 4.04 19.00 1.21  
1.033 0.81 7.033 1.61 13.033 4.03 19.03 1.61  
1.067 0.81 7.067 1.61 13.067 4.03 19.07 1.61  
1.100 0.81 7.100 1.61 13.100 4.03 19.10 1.61  
1.133 0.81 7.133 1.61 13.133 4.03 19.13 1.61  
1.167 0.81 7.167 1.61 13.167 4.03 19.17 1.61  
1.200 0.81 7.200 1.61 13.200 4.04 19.20 1.61  
1.233 0.81 7.233 1.61 13.233 4.03 19.23 1.21  
1.267 0.81 7.267 1.61 13.267 4.03 19.27 1.21  
1.300 0.81 7.300 1.61 13.300 4.03 19.30 1.21  
1.333 0.81 7.333 1.61 13.333 4.03 19.33 1.21  
1.367 0.81 7.367 1.61 13.367 4.03 19.37 1.21  
1.400 0.81 7.400 1.61 13.400 4.04 19.40 1.21  
1.433 0.81 7.433 1.61 13.433 4.03 19.43 1.61  
1.467 0.81 7.467 1.61 13.467 4.03 19.47 1.61  
1.500 0.81 7.500 1.61 13.500 4.03 19.50 1.61  
1.533 0.81 7.533 1.61 13.533 4.03 19.53 1.61  
1.567 0.81 7.567 1.61 13.567 4.03 19.57 1.61  
1.600 0.81 7.600 1.61 13.600 4.04 19.60 1.61  
1.633 0.81 7.633 1.61 13.633 4.03 19.63 1.21  
1.667 0.81 7.667 1.61 13.667 4.03 19.67 1.21  
1.700 0.81 7.700 1.61 13.700 4.03 19.70 1.21  
1.733 0.81 7.733 1.61 13.733 4.03 19.73 1.21  
1.767 0.81 7.767 1.61 13.767 4.03 19.77 1.21  
1.800 0.81 7.800 1.61 13.800 4.04 19.80 1.21  
1.833 0.81 7.833 1.61 13.833 4.04 19.83 1.61  
1.867 0.81 7.867 1.61 13.867 4.04 19.87 1.61  
1.900 0.81 7.900 1.61 13.900 4.04 19.90 1.61  
1.933 0.81 7.933 1.61 13.933 4.04 19.93 1.61  
1.967 0.81 7.967 1.61 13.967 4.04 19.97 1.61  
2.000 0.81 8.000 1.61 14.000 4.03 20.00 1.61  
2.033 0.81 8.033 2.42 14.033 2.42 20.03 1.21  
2.067 0.81 8.067 2.42 14.067 2.42 20.07 1.21  
2.100 0.81 8.100 2.42 14.100 2.42 20.10 1.21  
2.133 0.81 8.133 2.42 14.133 2.42 20.13 1.21  
2.167 0.81 8.167 2.42 14.167 2.42 20.17 1.21  
2.200 0.81 8.200 2.42 14.200 2.42 20.20 1.21  
2.233 0.81 8.233 2.42 14.233 2.42 20.23 1.21  
2.267 0.81 8.267 2.42 14.267 2.42 20.27 1.21  
2.300 0.81 8.300 2.42 14.300 2.42 20.30 1.21  
2.333 0.81 8.333 2.42 14.333 2.42 20.33 1.21  
2.367 0.81 8.367 2.42 14.367 2.42 20.37 1.21  
2.400 0.81 8.400 2.42 14.400 2.42 20.40 1.21  
2.433 0.81 8.433 2.42 14.433 2.42 20.43 0.81  
2.467 0.81 8.467 2.42 14.467 2.42 20.47 0.81  
2.500 0.81 8.500 2.42 14.500 2.42 20.50 0.81  
2.533 0.81 8.533 2.42 14.533 2.42 20.53 0.81  
2.567 0.81 8.567 2.42 14.567 2.42 20.57 0.81  
2.600 0.81 8.600 2.42 14.600 2.42 20.60 0.81  
2.633 0.81 8.633 2.42 14.633 2.42 20.63 1.21  
2.667 0.81 8.667 2.42 14.667 2.42 20.67 1.21  
2.700 0.81 8.700 2.42 14.700 2.42 20.70 1.21  
2.733 0.81 8.733 2.42 14.733 2.42 20.73 1.21  
2.767 0.81 8.767 2.42 14.767 2.42 20.77 1.21  
2.800 0.81 8.800 2.42 14.800 2.42 20.80 1.21  
2.833 0.81 8.833 2.42 14.833 2.42 20.83 1.21  
2.867 0.81 8.867 2.42 14.867 2.42 20.87 1.21  
2.900 0.81 8.900 2.42 14.900 2.42 20.90 1.21  
2.933 0.81 8.933 2.42 14.933 2.42 20.93 1.21  
2.967 0.81 8.967 2.42 14.967 2.42 20.97 1.21  
3.000 0.81 9.000 2.42 15.000 2.42 21.00 1.21  
3.033 0.81 9.033 2.42 15.033 2.02 21.03 0.81  
3.067 0.81 9.067 2.42 15.067 2.02 21.07 0.81  
3.100 0.81 9.100 2.42 15.100 2.02 21.10 0.81  
3.133 0.81 9.133 2.42 15.133 2.02 21.13 0.81

3.167 0.81 9.167 2.42 15.167 2.02 21.17 0.81  
3.200 0.81 9.200 2.42 15.200 2.02 21.20 0.81  
3.233 0.81 9.233 2.42 15.233 2.02 21.23 1.21  
3.267 0.81 9.267 2.42 15.267 2.02 21.27 1.21  
3.300 0.81 9.300 2.42 15.300 2.02 21.30 1.21  
3.333 0.81 9.333 2.42 15.333 2.02 21.33 1.21  
3.367 0.81 9.367 2.42 15.367 2.02 21.37 1.21  
3.400 0.81 9.400 2.42 15.400 2.02 21.40 1.21  
3.433 0.81 9.433 2.42 15.433 2.02 21.43 0.81  
3.467 0.81 9.467 2.42 15.467 2.02 21.47 0.81  
3.500 0.81 9.500 2.42 15.500 2.02 21.50 0.81  
3.533 0.81 9.533 2.42 15.533 2.02 21.53 0.81  
3.567 0.81 9.567 2.42 15.567 2.02 21.57 0.81  
3.600 0.81 9.600 2.42 15.600 2.02 21.60 0.81  
3.633 0.81 9.633 2.42 15.633 2.02 21.63 1.21  
3.667 0.81 9.667 2.42 15.667 2.02 21.67 1.21  
3.700 0.81 9.700 2.42 15.700 2.02 21.70 1.21  
3.733 0.81 9.733 2.42 15.733 2.02 21.73 1.21  
3.767 0.81 9.767 2.42 15.767 2.02 21.77 1.21  
3.800 0.81 9.800 2.42 15.800 2.02 21.80 1.21  
3.833 0.81 9.833 2.42 15.833 2.02 21.83 0.81  
3.867 0.81 9.867 2.42 15.867 2.02 21.87 0.81  
3.900 0.81 9.900 2.42 15.900 2.02 21.90 0.81  
3.933 0.81 9.933 2.42 15.933 2.02 21.93 0.81  
3.967 0.81 9.967 2.42 15.967 2.02 21.97 0.81  
4.000 0.81 10.000 2.42 16.000 2.02 22.00 0.81  
4.033 1.61 10.033 4.44 16.033 2.02 22.03 0.81  
4.067 1.61 10.067 4.44 16.067 2.02 22.07 0.81  
4.100 1.61 10.100 4.44 16.100 2.02 22.10 0.81  
4.133 1.61 10.133 4.44 16.133 2.02 22.13 0.81  
4.167 1.61 10.167 4.44 16.167 2.02 22.17 0.81  
4.200 1.61 10.200 4.44 16.200 2.02 22.20 0.81  
4.233 1.61 10.233 4.44 16.233 2.02 22.23 1.21  
4.267 1.61 10.267 4.44 16.267 2.02 22.27 1.21  
4.300 1.61 10.300 4.44 16.300 2.02 22.30 1.21  
4.333 1.61 10.333 4.44 16.333 2.02 22.33 1.21  
4.367 1.61 10.367 4.44 16.367 2.02 22.37 1.21  
4.400 1.61 10.400 4.44 16.400 2.02 22.40 1.21  
4.433 1.61 10.433 4.44 16.433 2.02 22.43 0.81  
4.467 1.61 10.467 4.44 16.467 2.02 22.47 0.81  
4.500 1.61 10.500 4.44 16.500 2.02 22.50 0.81  
4.533 1.61 10.533 4.44 16.533 2.02 22.53 0.81  
4.567 1.61 10.567 4.44 16.567 2.02 22.57 0.81  
4.600 1.61 10.600 4.44 16.600 2.02 22.60 0.81  
4.633 1.61 10.633 4.44 16.633 2.02 22.63 1.21  
4.667 1.61 10.667 4.44 16.667 2.02 22.67 1.21  
4.700 1.61 10.700 4.44 16.700 2.02 22.70 1.21  
4.733 1.61 10.733 4.44 16.733 2.02 22.73 1.21  
4.767 1.61 10.767 4.44 16.767 2.02 22.77 1.21  
4.800 1.61 10.800 4.44 16.800 2.02 22.80 1.21  
4.833 1.61 10.833 4.44 16.833 1.21 22.83 0.81  
4.867 1.61 10.867 4.44 16.867 1.21 22.87 0.81  
4.900 1.61 10.900 4.44 16.900 1.21 22.90 0.81  
4.933 1.61 10.933 4.44 16.933 1.21 22.93 0.81  
4.967 1.61 10.967 4.44 16.967 1.21 22.97 0.81  
5.000 1.61 11.000 4.44 17.000 1.21 23.00 0.81  
5.033 1.61 11.033 6.05 17.033 1.21 23.03 0.81  
5.067 1.61 11.067 6.05 17.067 1.21 23.07 0.81  
5.100 1.61 11.100 6.05 17.100 1.21 23.10 0.81  
5.133 1.61 11.133 6.05 17.133 1.21 23.13 0.81  
5.167 1.61 11.167 6.05 17.167 1.21 23.17 0.81  
5.200 1.61 11.200 6.06 17.200 1.21 23.20 0.81  
5.233 1.61 11.233 8.88 17.233 1.61 23.23 0.81  
5.267 1.61 11.267 8.88 17.267 1.61 23.27 0.81  
5.300 1.61 11.300 8.88 17.300 1.61 23.30 0.81  
5.333 1.61 11.333 8.88 17.333 1.61 23.33 0.81  
5.367 1.61 11.367 8.88 17.367 1.61 23.37 0.81  
5.400 1.61 11.400 8.89 17.400 1.61 23.40 0.81  
5.433 1.61 11.433 21.39 17.433 1.21 23.43 1.21  
5.467 1.61 11.467 21.39 17.467 1.21 23.47 1.21  
5.500 1.61 11.500 21.39 17.500 1.21 23.50 1.21  
5.533 1.61 11.533 21.39 17.533 1.21 23.53 1.21  
5.567 1.61 11.567 21.39 17.567 1.21 23.57 1.21  
5.600 1.61 11.600 21.41 17.600 1.21 23.60 1.21  
5.633 1.61 11.633 44.39 17.633 1.61 23.63 0.81  
5.667 1.61 11.667 44.39 17.667 1.61 23.67 0.81  
5.700 1.61 11.700 44.39 17.700 1.61 23.70 0.81  
5.733 1.61 11.733 44.39 17.733 1.61 23.73 0.81  
5.767 1.61 11.767 44.39 17.767 1.61 23.77 0.81  
5.800 1.61 11.800 44.45 17.800 1.61 23.80 0.81  
5.833 1.61 11.833 90.79 17.833 1.21 23.83 0.81  
5.867 1.61 11.867 90.79 17.867 1.21 23.87 0.81  
5.900 1.61 11.900 90.79 17.900 1.21 23.90 0.81  
5.933 1.61 11.933 90.79 17.933 1.21 23.93 0.81  
5.967 1.61 11.967 90.79 17.967 1.21 23.97 0.81  
6.000 1.61 12.000 90.68 18.000 1.21 24.00 0.81

Unit Hyd Qpeak (cms)= 0.793

PEAK FLOW (cms)= 0.391 (i)  
TIME TO PEAK (hrs)= 12.333  
RUNOFF VOLUME (mm)= 29.954  
TOTAL RAINFALL (mm)= 80.699  
RUNOFF COEFFICIENT = 0.371

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0032 ) |  
1 + 2 = 3 | AREA QPEAK TPEAK R.V.  
(ha) (cms) (hrs) (mm)  
ID1= 1 ( 0501): 8.72 0.391 12.33 29.95  
+ ID2= 2 ( 0502): 0.53 0.036 12.13 29.95  
===== ID = 3 ( 0032): 9.25 0.417 12.30 29.95

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD ( 0033 ) |  
1 + 2 = 3 | AREA QPEAK TPEAK R.V.  
(ha) (cms) (hrs) (mm)  
ID1= 1 ( 0201): 5.08 0.033 14.30 37.02  
+ ID2= 2 ( 0032): 9.25 0.417 12.30 29.95  
===== ID = 3 ( 0033): 14.33 0.434 12.33 32.46

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB |  
NASHYD ( 0401 ) | Area (ha)= 5.97 Curve Number (CN)= 81.0  
ID= 1 DT= 2.0 min | Ia (mm)= 6.90 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.16

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ---- TRANSFORMED HYETOGRAPH ---- |       |        |       |        |       |       |       |
|----------------------------------|-------|--------|-------|--------|-------|-------|-------|
| TIME                             | RAIN  | TIME   | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
| hrs                              | mm/hr | hrs    | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033                            | 0.81  | 6.033  | 1.61  | 12.033 | 16.14 | 18.03 | 1.21  |
| 0.067                            | 0.81  | 6.067  | 1.61  | 12.067 | 16.14 | 18.07 | 1.21  |
| 0.100                            | 0.81  | 6.100  | 1.61  | 12.100 | 16.14 | 18.10 | 1.21  |
| 0.133                            | 0.81  | 6.133  | 1.61  | 12.133 | 16.14 | 18.13 | 1.21  |
| 0.167                            | 0.81  | 6.167  | 1.61  | 12.167 | 16.14 | 18.17 | 1.21  |
| 0.200                            | 0.81  | 6.200  | 1.61  | 12.200 | 16.13 | 18.20 | 1.21  |
| 0.233                            | 0.81  | 6.233  | 1.61  | 12.233 | 10.09 | 18.23 | 1.21  |
| 0.267                            | 0.81  | 6.267  | 1.61  | 12.267 | 10.09 | 18.27 | 1.21  |
| 0.300                            | 0.81  | 6.300  | 1.61  | 12.300 | 10.09 | 18.30 | 1.21  |
| 0.333                            | 0.81  | 6.333  | 1.61  | 12.333 | 10.09 | 18.33 | 1.21  |
| 0.367                            | 0.81  | 6.367  | 1.61  | 12.367 | 10.09 | 18.37 | 1.21  |
| 0.400                            | 0.81  | 6.400  | 1.61  | 12.400 | 10.08 | 18.40 | 1.21  |
| 0.433                            | 0.81  | 6.433  | 1.61  | 12.433 | 7.26  | 18.43 | 1.61  |
| 0.467                            | 0.81  | 6.467  | 1.61  | 12.467 | 7.26  | 18.47 | 1.61  |
| 0.500                            | 0.81  | 6.500  | 1.61  | 12.500 | 7.26  | 18.50 | 1.61  |
| 0.533                            | 0.81  | 6.533  | 1.61  | 12.533 | 7.26  | 18.53 | 1.61  |
| 0.567                            | 0.81  | 6.567  | 1.61  | 12.567 | 7.26  | 18.57 | 1.61  |
| 0.600                            | 0.81  | 6.600  | 1.61  | 12.600 | 7.26  | 18.60 | 1.61  |
| 0.633                            | 0.81  | 6.633  | 1.61  | 12.633 | 6.86  | 18.63 | 1.21  |
| 0.667                            | 0.81  | 6.667  | 1.61  | 12.667 | 6.86  | 18.67 | 1.21  |
| 0.700                            | 0.81  | 6.700  | 1.61  | 12.700 | 6.86  | 18.70 | 1.21  |
| 0.733                            | 0.81  | 6.733  | 1.61  | 12.733 | 6.86  | 18.73 | 1.21  |
| 0.767                            | 0.81  | 6.767  | 1.61  | 12.767 | 6.86  | 18.77 | 1.21  |
| 0.800                            | 0.81  | 6.800  | 1.61  | 12.800 | 6.86  | 18.80 | 1.21  |
| 0.833                            | 0.81  | 6.833  | 1.61  | 12.833 | 4.84  | 18.83 | 1.21  |
| 0.867                            | 0.81  | 6.867  | 1.61  | 12.867 | 4.84  | 18.87 | 1.21  |
| 0.900                            | 0.81  | 6.900  | 1.61  | 12.900 | 4.84  | 18.90 | 1.21  |
| 0.933                            | 0.81  | 6.933  | 1.61  | 12.933 | 4.84  | 18.93 | 1.21  |
| 0.967                            | 0.81  | 6.967  | 1.61  | 12.967 | 4.84  | 18.97 | 1.21  |
| 1.000                            | 0.81  | 7.000  | 1.61  | 13.000 | 4.84  | 19.00 | 1.21  |
| 1.033                            | 0.81  | 7.033  | 1.61  | 13.033 | 4.03  | 19.03 | 1.61  |
| 1.067                            | 0.81  | 7.067  | 1.61  | 13.067 | 4.03  | 19.07 | 1.61  |
| 1.100                            | 0.81  | 7.100  | 1.61  | 13.100 | 4.03  | 19.10 | 1.61  |
| 1.133                            | 0.81  | 7.133  | 1.61  | 13.133 | 4.03  | 19.13 | 1.61  |
| 1.167                            | 0.81  | 7.167  | 1.61  | 13.167 | 4.03  | 19.17 | 1.61  |
| 1.200                            | 0.81  | 7.200  | 1.61  | 13.200 | 4.04  | 19.20 | 1.61  |
| 1.233                            | 0.81  | 7.233  | 1.61  | 13.233 | 4.03  | 19.23 | 1.21  |
| 1.267                            | 0.81  | 7.267  | 1.61  | 13.267 | 4.03  | 19.27 | 1.21  |
| 1.300                            | 0.81  | 7.300  | 1.61  | 13.300 | 4.03  | 19.30 | 1.21  |
| 1.333                            | 0.81  | 7.333  | 1.61  | 13.333 | 4.03  | 19.33 | 1.21  |
| 1.367                            | 0.81  | 7.367  | 1.61  | 13.367 | 4.03  | 19.37 | 1.21  |
| 1.400                            | 0.81  | 7.400  | 1.61  | 13.400 | 4.04  | 19.40 | 1.21  |
| 1.433                            | 0.81  | 7.433  | 1.61  | 13.433 | 4.03  | 19.43 | 1.61  |
| 1.467                            | 0.81  | 7.467  | 1.61  | 13.467 | 4.03  | 19.47 | 1.61  |
| 1.500                            | 0.81  | 7.500  | 1.61  | 13.500 | 4.03  | 19.50 | 1.61  |
| 1.533                            | 0.81  | 7.533  | 1.61  | 13.533 | 4.03  | 19.53 | 1.61  |
| 1.567                            | 0.81  | 7.567  | 1.61  | 13.567 | 4.03  | 19.57 | 1.61  |
| 1.600                            | 0.81  | 7.600  | 1.61  | 13.600 | 4.04  | 19.60 | 1.61  |
| 1.633                            | 0.81  | 7.633  | 1.61  | 13.633 | 4.03  | 19.63 | 1.21  |
| 1.667                            | 0.81  | 7.667  | 1.61  | 13.667 | 4.03  | 19.67 | 1.21  |
| 1.700                            | 0.81  | 7.700  | 1.61  | 13.700 | 4.03  | 19.70 | 1.21  |
| 1.733                            | 0.81  | 7.733  | 1.61  | 13.733 | 4.03  | 19.73 | 1.21  |
| 1.767                            | 0.81  | 7.767  | 1.61  | 13.767 | 4.03  | 19.77 | 1.21  |
| 1.800                            | 0.81  | 7.800  | 1.61  | 13.800 | 4.04  | 19.80 | 1.21  |
| 1.833                            | 0.81  | 7.833  | 1.61  | 13.833 | 4.04  | 19.83 | 1.61  |
| 1.867                            | 0.81  | 7.867  | 1.61  | 13.867 | 4.04  | 19.87 | 1.61  |
| 1.900                            | 0.81  | 7.900  | 1.61  | 13.900 | 4.04  | 19.90 | 1.61  |
| 1.933                            | 0.81  | 7.933  | 1.61  | 13.933 | 4.04  | 19.93 | 1.61  |
| 1.967                            | 0.81  | 7.967  | 1.61  | 13.967 | 4.04  | 19.97 | 1.61  |
| 2.000                            | 0.81  | 8.000  | 1.61  | 14.000 | 4.03  | 20.00 | 1.61  |
| 2.033                            | 0.81  | 8.033  | 2.42  | 14.033 | 2.42  | 20.03 | 1.21  |
| 2.067                            | 0.81  | 8.067  | 2.42  | 14.067 | 2.42  | 20.07 | 1.21  |
| 2.100                            | 0.81  | 8.100  | 2.42  | 14.100 | 2.42  | 20.10 | 1.21  |
| 2.133                            | 0.81  | 8.133  | 2.42  | 14.133 | 2.42  | 20.13 | 1.21  |
| 2.167                            | 0.81  | 8.167  | 2.42  | 14.167 | 2.42  | 20.17 | 1.21  |
| 2.200                            | 0.81  | 8.200  | 2.42  | 14.200 | 2.42  | 20.20 | 1.21  |
| 2.233                            | 0.81  | 8.233  | 2.42  | 14.233 | 2.42  | 20.23 | 1.21  |
| 2.267                            | 0.81  | 8.267  | 2.42  | 14.267 | 2.42  | 20.27 | 1.21  |
| 2.300                            | 0.81  | 8.300  | 2.42  | 14.300 | 2.42  | 20.30 | 1.21  |
| 2.333                            | 0.81  | 8.333  | 2.42  | 14.333 | 2.42  | 20.33 | 1.21  |
| 2.367                            | 0.81  | 8.367  | 2.42  | 14.367 | 2.42  | 20.37 | 1.21  |
| 2.400                            | 0.81  | 8.400  | 2.42  | 14.400 | 2.42  | 20.40 | 1.21  |
| 2.433                            | 0.81  | 8.433  | 2.42  | 14.433 | 2.42  | 20.43 | 0.81  |
| 2.467                            | 0.81  | 8.467  | 2.42  | 14.467 | 2.42  | 20.47 | 0.81  |
| 2.500                            | 0.81  | 8.500  | 2.42  | 14.500 | 2.42  | 20.50 | 0.81  |
| 2.533                            | 0.81  | 8.533  | 2.42  | 14.533 | 2.42  | 20.53 | 0.81  |
| 2.567                            | 0.81  | 8.567  | 2.42  | 14.567 | 2.42  | 20.57 | 0.81  |
| 2.600                            | 0.81  | 8.600  | 2.42  | 14.600 | 2.42  | 20.60 | 0.81  |
| 2.633                            | 0.81  | 8.633  | 2.42  | 14.633 | 2.42  | 20.63 | 1.21  |
| 2.667                            | 0.81  | 8.667  | 2.42  | 14.667 | 2.42  | 20.67 | 1.21  |
| 2.700                            | 0.81  | 8.700  | 2.42  | 14.700 | 2.42  | 20.70 | 1.21  |
| 2.733                            | 0.81  | 8.733  | 2.42  | 14.733 | 2.42  | 20.73 | 1.21  |
| 2.767                            | 0.81  | 8.767  | 2.42  | 14.767 | 2.42  | 20.77 | 1.21  |
| 2.800                            | 0.81  | 8.800  | 2.42  | 14.800 | 2.42  | 20.80 | 1.21  |
| 2.833                            | 0.81  | 8.833  | 2.42  | 14.833 | 2.42  | 20.83 | 1.21  |
| 2.867                            | 0.81  | 8.867  | 2.42  | 14.867 | 2.42  | 20.87 | 1.21  |
| 2.900                            | 0.81  | 8.900  | 2.42  | 14.900 | 2.42  | 20.90 | 1.21  |
| 2.933                            | 0.81  | 8.933  | 2.42  | 14.933 | 2.42  | 20.93 | 1.21  |
| 2.967                            | 0.81  | 8.967  | 2.42  | 14.967 | 2.42  | 20.97 | 1.21  |
| 3.000                            | 0.81  | 9.000  | 2.42  | 15.000 | 2.42  | 21.00 | 1.21  |
| 3.033                            | 0.81  | 9.033  | 2.42  | 15.033 | 2.02  | 21.03 | 0.81  |
| 3.067                            | 0.81  | 9.067  | 2.42  | 15.067 | 2.02  | 21.07 | 0.81  |
| 3.100                            | 0.81  | 9.100  | 2.42  | 15.100 | 2.02  | 21.10 | 0.81  |
| 3.133                            | 0.81  | 9.133  | 2.42  | 15.133 | 2.02  | 21.13 | 0.81  |
| 3.167                            | 0.81  | 9.167  | 2.42  | 15.167 | 2.02  | 21.17 | 0.81  |
| 3.200                            | 0.81  | 9.200  | 2.42  | 15.200 | 2.02  | 21.20 | 0.81  |
| 3.233                            | 0.81  | 9.233  | 2.42  | 15.233 | 2.02  | 21.23 | 1.21  |
| 3.267                            | 0.81  | 9.267  | 2.42  | 15.267 | 2.02  | 21.27 | 1.21  |
| 3.300                            | 0.81  | 9.300  | 2.42  | 15.300 | 2.02  | 21.30 | 1.21  |
| 3.333                            | 0.81  | 9.333  | 2.42  | 15.333 | 2.02  | 21.33 | 1.21  |
| 3.367                            | 0.81  | 9.367  | 2.42  | 15.367 | 2.02  | 21.37 | 1.21  |
| 3.400                            | 0.81  | 9.400  | 2.42  | 15.400 | 2.02  | 21.40 | 1.21  |
| 3.433                            | 0.81  | 9.433  | 2.42  | 15.433 | 2.02  | 21.43 | 0.81  |
| 3.467                            | 0.81  | 9.467  | 2.42  | 15.467 | 2.02  | 21.47 | 0.81  |
| 3.500                            | 0.81  | 9.500  | 2.42  | 15.500 | 2.02  | 21.50 | 0.81  |
| 3.533                            | 0.81  | 9.533  | 2.42  | 15.533 | 2.02  | 21.53 | 0.81  |
| 3.567                            | 0.81  | 9.567  | 2.42  | 15.567 | 2.02  | 21.57 | 0.81  |
| 3.600                            | 0.81  | 9.600  | 2.42  | 15.600 | 2.02  | 21.60 | 0.81  |
| 3.633                            | 0.81  | 9.633  | 2.42  | 15.633 | 2.02  | 21.63 | 1.21  |
| 3.667                            | 0.81  | 9.667  | 2.42  | 15.667 | 2.02  | 21.67 | 1.21  |
| 3.700                            | 0.81  | 9.700  | 2.42  | 15.700 | 2.02  | 21.70 | 1.21  |
| 3.733                            | 0.81  | 9.733  | 2.42  | 15.733 | 2.02  | 21.73 | 1.21  |
| 3.767                            | 0.81  | 9.767  | 2.42  | 15.767 | 2.02  | 21.77 | 1.21  |
| 3.800                            | 0.81  | 9.800  | 2.42  | 15.800 | 2.02  | 21.80 | 1.21  |
| 3.833                            | 0.81  | 9.833  | 2.42  | 15.833 | 2.02  | 21.83 | 0.81  |
| 3.867                            | 0.81  | 9.867  | 2.42  | 15.867 | 2.02  | 21.87 | 0.81  |
| 3.900                            | 0.81  | 9.900  | 2.42  | 15.900 | 2.02  | 21.90 | 0.81  |
| 3.933                            | 0.81  | 9.933  | 2.42  | 15.933 | 2.02  | 21.93 | 0.81  |
| 3.967                            | 0.81  | 9.967  | 2.42  | 15.967 | 2.02  | 21.97 | 0.81  |
| 4.000                            | 0.81  | 10.000 | 2.42  | 16.000 | 2.02  | 22.00 | 0.81  |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 4.033 | 1.61 | 10.033 | 4.44  | 16.033 | 2.02 | 22.03 | 0.81 |
| 4.067 | 1.61 | 10.067 | 4.44  | 16.067 | 2.02 | 22.07 | 0.81 |
| 4.100 | 1.61 | 10.100 | 4.44  | 16.100 | 2.02 | 22.10 | 0.81 |
| 4.133 | 1.61 | 10.133 | 4.44  | 16.133 | 2.02 | 22.13 | 0.81 |
| 4.167 | 1.61 | 10.167 | 4.44  | 16.167 | 2.02 | 22.17 | 0.81 |
| 4.200 | 1.61 | 10.200 | 4.44  | 16.200 | 2.02 | 22.20 | 0.81 |
| 4.233 | 1.61 | 10.233 | 4.44  | 16.233 | 2.02 | 22.23 | 1.21 |
| 4.267 | 1.61 | 10.267 | 4.44  | 16.267 | 2.02 | 22.27 | 1.21 |
| 4.300 | 1.61 | 10.300 | 4.44  | 16.300 | 2.02 | 22.30 | 1.21 |
| 4.333 | 1.61 | 10.333 | 4.44  | 16.333 | 2.02 | 22.33 | 1.21 |
| 4.367 | 1.61 | 10.367 | 4.44  | 16.367 | 2.02 | 22.37 | 1.21 |
| 4.400 | 1.61 | 10.400 | 4.44  | 16.400 | 2.02 | 22.40 | 1.21 |
| 4.433 | 1.61 | 10.433 | 4.44  | 16.433 | 2.02 | 22.43 | 0.81 |
| 4.467 | 1.61 | 10.467 | 4.44  | 16.467 | 2.02 | 22.47 | 0.81 |
| 4.500 | 1.61 | 10.500 | 4.44  | 16.500 | 2.02 | 22.50 | 0.81 |
| 4.533 | 1.61 | 10.533 | 4.44  | 16.533 | 2.02 | 22.53 | 0.81 |
| 4.567 | 1.61 | 10.567 | 4.44  | 16.567 | 2.02 | 22.57 | 0.81 |
| 4.600 | 1.61 | 10.600 | 4.44  | 16.600 | 2.02 | 22.60 | 0.81 |
| 4.633 | 1.61 | 10.633 | 4.44  | 16.633 | 2.02 | 22.63 | 1.21 |
| 4.667 | 1.61 | 10.667 | 4.44  | 16.667 | 2.02 | 22.67 | 1.21 |
| 4.700 | 1.61 | 10.700 | 4.44  | 16.700 | 2.02 | 22.70 | 1.21 |
| 4.733 | 1.61 | 10.733 | 4.44  | 16.733 | 2.02 | 22.73 | 1.21 |
| 4.767 | 1.61 | 10.767 | 4.44  | 16.767 | 2.02 | 22.77 | 1.21 |
| 4.800 | 1.61 | 10.800 | 4.44  | 16.800 | 2.02 | 22.80 | 1.21 |
| 4.833 | 1.61 | 10.833 | 4.44  | 16.833 | 1.21 | 22.83 | 0.81 |
| 4.867 | 1.61 | 10.867 | 4.44  | 16.867 | 1.21 | 22.87 | 0.81 |
| 4.900 | 1.61 | 10.900 | 4.44  | 16.900 | 1.21 | 22.90 | 0.81 |
| 4.933 | 1.61 | 10.933 | 4.44  | 16.933 | 1.21 | 22.93 | 0.81 |
| 4.967 | 1.61 | 10.967 | 4.44  | 16.967 | 1.21 | 22.97 | 0.81 |
| 5.000 | 1.61 | 11.000 | 4.44  | 17.000 | 1.21 | 23.00 | 0.81 |
| 5.033 | 1.61 | 11.033 | 6.05  | 17.033 | 1.21 | 23.03 | 0.81 |
| 5.067 | 1.61 | 11.067 | 6.05  | 17.067 | 1.21 | 23.07 | 0.81 |
| 5.100 | 1.61 | 11.100 | 6.05  | 17.100 | 1.21 | 23.10 | 0.81 |
| 5.133 | 1.61 | 11.133 | 6.05  | 17.133 | 1.21 | 23.13 | 0.81 |
| 5.167 | 1.61 | 11.167 | 6.05  | 17.167 | 1.21 | 23.17 | 0.81 |
| 5.200 | 1.61 | 11.200 | 6.06  | 17.200 | 1.21 | 23.20 | 0.81 |
| 5.233 | 1.61 | 11.233 | 8.88  | 17.233 | 1.61 | 23.23 | 0.81 |
| 5.267 | 1.61 | 11.267 | 8.88  | 17.267 | 1.61 | 23.27 | 0.81 |
| 5.300 | 1.61 | 11.300 | 8.88  | 17.300 | 1.61 | 23.30 | 0.81 |
| 5.333 | 1.61 | 11.333 | 8.88  | 17.333 | 1.61 | 23.33 | 0.81 |
| 5.367 | 1.61 | 11.367 | 8.88  | 17.367 | 1.61 | 23.37 | 0.81 |
| 5.400 | 1.61 | 11.400 | 8.89  | 17.400 | 1.61 | 23.40 | 0.81 |
| 5.433 | 1.61 | 11.433 | 21.39 | 17.433 | 1.21 | 23.43 | 1.21 |
| 5.467 | 1.61 | 11.467 | 21.39 | 17.467 | 1.21 | 23.47 | 1.21 |
| 5.500 | 1.61 | 11.500 | 21.39 | 17.500 | 1.21 | 23.50 | 1.21 |
| 5.533 | 1.61 | 11.533 | 21.39 | 17.533 | 1.21 | 23.53 | 1.21 |
| 5.567 | 1.61 | 11.567 | 21.39 | 17.567 | 1.21 | 23.57 | 1.21 |
| 5.600 | 1.61 | 11.600 | 21.41 | 17.600 | 1.21 | 23.60 | 1.21 |
| 5.633 | 1.61 | 11.633 | 44.39 | 17.633 | 1.61 | 23.63 | 0.81 |
| 5.667 | 1.61 | 11.667 | 44.39 | 17.667 | 1.61 | 23.67 | 0.81 |
| 5.700 | 1.61 | 11.700 | 44.39 | 17.700 | 1.61 | 23.70 | 0.81 |
| 5.733 | 1.61 | 11.733 | 44.39 | 17.733 | 1.21 | 23.73 | 0.81 |
| 5.767 | 1.61 | 11.767 | 44.39 | 17.767 | 1.61 | 23.77 | 0.81 |
| 5.800 | 1.61 | 11.800 | 44.45 | 17.800 | 1.61 | 23.80 | 0.81 |
| 5.833 | 1.61 | 11.833 | 90.79 | 17.833 | 1.21 | 23.83 | 0.81 |
| 5.867 | 1.61 | 11.867 | 90.79 | 17.867 | 1.21 | 23.87 | 0.81 |
| 5.900 | 1.61 | 11.900 | 90.79 | 17.900 | 1.21 | 23.90 | 0.81 |
| 5.933 | 1.61 | 11.933 | 90.79 | 17.933 | 1.21 | 23.93 | 0.81 |
| 5.967 | 1.61 | 11.967 | 90.79 | 17.967 | 1.21 | 23.97 | 0.81 |
| 6.000 | 1.61 | 12.000 | 90.68 | 18.000 | 1.21 | 24.00 | 0.81 |

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4.633 0.81 10.633 4.44 16.633 2.02 22.63 1.21  
4.667 0.81 10.667 4.44 16.667 2.02 22.67 1.21  
4.700 0.81 10.700 4.44 16.700 2.02 22.70 1.21  
4.733 0.81 10.733 4.44 16.733 2.02 22.73 1.21  
4.767 0.81 10.767 4.44 16.767 2.02 22.77 1.21  
4.800 0.81 10.800 4.44 16.800 2.02 22.80 1.21  
4.833 0.81 10.833 4.44 16.833 1.21 22.83 0.81  
4.867 0.81 10.867 4.44 16.867 1.21 22.87 0.81  
4.900 0.81 10.900 4.44 16.900 1.21 22.90 0.81  
4.933 0.81 10.933 4.44 16.933 1.21 22.93 0.81  
4.967 0.81 10.967 4.44 16.967 1.21 22.97 0.81  
5.000 0.81 11.000 4.44 17.000 1.21 23.00 0.81  
5.033 0.81 11.033 6.05 17.033 1.21 23.03 0.81  
5.067 0.81 11.067 6.05 17.067 1.21 23.07 0.81  
5.100 0.81 11.100 6.05 17.100 1.21 23.10 0.81  
5.133 0.81 11.133 6.05 17.133 1.21 23.13 0.81  
5.167 0.81 11.167 6.05 17.167 1.21 23.17 0.81  
5.200 0.81 11.200 6.06 17.200 1.21 23.20 0.81  
5.233 0.81 11.233 8.88 17.233 1.61 23.23 0.81  
5.267 0.81 11.267 8.88 17.267 1.61 23.27 0.81  
5.300 0.81 11.300 8.88 17.300 1.61 23.30 0.81  
5.333 0.81 11.333 8.88 17.333 1.61 23.33 0.81  
5.367 0.81 11.367 8.88 17.367 1.61 23.37 0.81  
5.400 0.81 11.400 8.89 17.400 1.61 23.40 0.81  
5.433 0.81 11.433 21.39 17.433 1.21 23.43 1.21  
5.467 0.81 11.467 21.39 17.467 1.21 23.47 1.21  
5.500 0.81 11.500 21.39 17.500 1.21 23.50 1.21  
5.533 0.81 11.533 21.39 17.533 1.21 23.53 1.21  
5.567 0.81 11.567 21.39 17.567 1.21 23.57 1.21  
5.600 0.81 11.600 21.41 17.600 1.21 23.60 1.21  
5.633 0.81 11.633 44.39 17.633 1.61 23.63 0.81  
5.667 0.81 11.667 44.39 17.667 1.61 23.67 0.81

5.700 1.61 11.700 44.39 17.700 1.61 23.70 0.81  
5.733 1.61 11.733 44.39 17.733 1.61 23.73 0.81  
5.767 1.61 11.767 44.39 17.767 1.61 23.77 0.81  
5.800 1.61 11.800 44.45 17.800 1.61 23.80 0.81  
5.833 1.61 11.833 90.79 17.833 1.21 23.83 0.81  
5.867 1.61 11.867 90.79 17.867 1.21 23.87 0.81  
5.900 1.61 11.900 90.79 17.900 1.21 23.90 0.81  
5.933 1.61 11.933 90.79 17.933 1.21 23.93 0.81  
5.967 1.61 11.967 90.79 17.967 1.21 23.97 0.81  
6.000 1.61 12.000 90.68 18.000 1.21 24.00 0.81

Unit Hyd Qpeak (cms)= 1.809

PEAK FLOW (cms)= 0.860 (i)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 40.828  
TOTAL RAINFALL (mm)= 80.699  
RUNOFF COEFFICIENT = 0.506

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD ( 0040 )  
1 + 2 = 3  
ID1= 1 ( 0401 ): 5.97 0.678 12.07 40.83  
+ ID2= 2 ( 0402 ): 7.58 0.860 12.07 40.83  
ID = 3 ( 0040 ): 13.55 1.538 12.07 40.83

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB  
NASHYD ( 0403 )  
ID= 1 DT= 2.0 min  
Area (ha)= 2.87  
Ia (mm)= 6.80  
U.H. Tp(hrs)= 0.15  
Curve Number (CN)= 81.0  
# of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

TRANSFORMED HYETOGRAPH  
TIME RAIN TIME RAIN TIME RAIN TIME RAIN  
hrs mm/hr hrs mm/hr hrs mm/hr hrs mm/hr  
0.033 0.81 6.033 1.61 12.033 16.14 18.03 1.21  
0.067 0.81 6.067 1.61 12.067 16.14 18.07 1.21  
0.100 0.81 6.100 1.61 12.100 16.14 18.10 1.21  
0.133 0.81 6.133 1.61 12.133 16.14 18.13 1.21  
0.167 0.81 6.167 1.61 12.167 16.14 18.17 1.21  
0.200 0.81 6.200 1.61 12.200 16.13 18.20 1.21  
0.233 0.81 6.233 1.61 12.233 10.09 18.23 1.21  
0.267 0.81 6.267 1.61 12.267 10.09 18.27 1.21  
0.300 0.81 6.300 1.61 12.300 10.09 18.30 1.21  
0.333 0.81 6.333 1.61 12.333 10.09 18.33 1.21  
0.367 0.81 6.367 1.61 12.367 10.09 18.37 1.21  
0.400 0.81 6.400 1.61 12.400 10.08 18.40 1.21  
0.433 0.81 6.433 1.61 12.433 7.26 18.43 1.61  
0.467 0.81 6.467 1.61 12.467 7.26 18.47 1.61  
0.500 0.81 6.500 1.61 12.500 7.26 18.50 1.61  
0.533 0.81 6.533 1.61 12.533 7.26 18.53 1.61  
0.567 0.81 6.567 1.61 12.567 7.26 18.57 1.61  
0.600 0.81 6.600 1.61 12.600 7.26 18.60 1.61  
0.633 0.81 6.633 1.61 12.633 6.86 18.63 1.21  
0.667 0.81 6.667 1.61 12.667 6.86 18.67 1.21  
0.700 0.81 6.700 1.61 12.700 6.86 18.70 1.21  
0.733 0.81 6.733 1.61 12.733 6.86 18.73 1.21  
0.767 0.81 6.767 1.61 12.767 6.86 18.77 1.21  
0.800 0.81 6.800 1.61 12.800 6.86 18.80 1.21  
0.833 0.81 6.833 1.61 12.833 4.84 18.83 1.21  
0.867 0.81 6.867 1.61 12.867 4.84 18.87 1.21  
0.900 0.81 6.900 1.61 12.900 4.84 18.90 1.21  
0.933 0.81 6.933 1.61 12.933 4.84 18.93 1.21  
0.967 0.81 6.967 1.61 12.967 4.84 18.97 1.21  
1.000 0.81 7.000 1.61 13.000 4.84 19.00 1.21  
1.033 0.81 7.033 1.61 13.033 4.03 19.03 1.61  
1.067 0.81 7.067 1.61 13.067 4.03 19.07 1.61  
1.100 0.81 7.100 1.61 13.100 4.03 19.10 1.61  
1.133 0.81 7.133 1.61 13.133 4.03 19.13 1.61  
1.167 0.81 7.167 1.61 13.167 4.03 19.17 1.61  
1.200 0.81 7.200 1.61 13.200 4.04 19.20 1.61  
1.233 0.81 7.233 1.61 13.233 4.03 19.23 1.21  
1.267 0.81 7.267 1.61 13.267 4.03 19.27 1.21  
1.300 0.81 7.300 1.61 13.300 4.03 19.30 1.21  
1.333 0.81 7.333 1.61 13.333 4.03 19.33 1.21  
1.367 0.81 7.367 1.61 13.367 4.03 19.37 1.21  
1.400 0.81 7.400 1.61 13.400 4.04 19.40 1.21  
1.433 0.81 7.433 1.61 13.433 4.03 19.43 1.61  
1.467 0.81 7.467 1.61 13.467 4.03 19.47 1.61  
1.500 0.81 7.500 1.61 13.500 4.03 19.50 1.61  
1.533 0.81 7.533 1.61 13.533 4.03 19.53 1.61  
1.567 0.81 7.567 1.61 13.567 4.03 19.57 1.61  
1.600 0.81 7.600 1.61 13.600 4.04 19.60 1.61  
1.633 0.81 7.633 1.61 13.633 4.03 19.63 1.21  
1.667 0.81 7.667 1.61 13.667 4.03 19.67 1.21  
1.700 0.81 7.700 1.61 13.700 4.03 19.70 1.21  
1.733 0.81 7.733 1.61 13.733 4.03 19.73 1.21  
1.767 0.81 7.767 1.61 13.767 4.03 19.77 1.21  
1.800 0.81 7.800 1.61 13.800 4.04 19.80 1.21  
1.833 0.81 7.833 1.61 13.833 4.04 19.83 1.61  
1.867 0.81 7.867 1.61 13.867 4.04 19.87 1.61  
1.900 0.81 7.900 1.61 13.900 4.04 19.90 1.61  
1.933 0.81 7.933 1.61 13.933 4.04 19.93 1.61  
1.967 0.81 7.967 1.61 13.967 4.04 19.97 1.61  
2.000 0.81 8.000 1.61 14.000 4.03 20.00 1.61  
2.033 0.81 8.033 2.42 14.033 2.42 20.03 1.21  
2.067 0.81 8.067 2.42 14.067 2.42 20.07 1.21  
2.100 0.81 8.100 2.42 14.100 2.42 20.10 1.21  
2.133 0.81 8.133 2.42 14.133 2.42 20.13 1.21  
2.167 0.81 8.167 2.42 14.167 2.42 20.17 1.21  
2.200 0.81 8.200 2.42 14.200 2.42 20.20 1.21  
2.233 0.81 8.233 2.42 14.233 2.42 20.23 1.21  
2.267 0.81 8.267 2.42 14.267 2.42 20.27 1.21  
2.300 0.81 8.300 2.42 14.300 2.42 20.30 1.21  
2.333 0.81 8.333 2.42 14.333 2.42 20.33 1.21  
2.367 0.81 8.367 2.42 14.367 2.42 20.37 1.21  
2.400 0.81 8.400 2.42 14.400 2.42 20.40 1.21  
2.433 0.81 8.433 2.42 14.433 2.42 20.43 0.81  
2.467 0.81 8.467 2.42 14.467 2.42 20.47 0.81  
2.500 0.81 8.500 2.42 14.500 2.42 20.50 0.81  
2.533 0.81 8.533 2.42 14.533 2.42 20.53 0.81  
2.567 0.81 8.567 2.42 14.567 2.42 20.57 0.81  
2.600 0.81 8.600 2.42 14.600 2.42 20.60 0.81  
2.633 0.81 8.633 2.42 14.633 2.42 20.63 1.21  
2.667 0.81 8.667 2.42 14.667 2.42 20.67 1.21  
2.700 0.81 8.700 2.42 14.700 2.42 20.70 1.21

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 2.733 | 0.81 | 8.733  | 2.42  | 14.733 | 2.42 | 20.73 | 1.21 |
| 2.767 | 0.81 | 8.767  | 2.42  | 14.767 | 2.42 | 20.77 | 1.21 |
| 2.800 | 0.81 | 8.800  | 2.42  | 14.800 | 2.42 | 20.80 | 1.21 |
| 2.833 | 0.81 | 8.833  | 2.42  | 14.833 | 2.42 | 20.83 | 1.21 |
| 2.867 | 0.81 | 8.867  | 2.42  | 14.867 | 2.42 | 20.87 | 1.21 |
| 2.900 | 0.81 | 8.900  | 2.42  | 14.900 | 2.42 | 20.90 | 1.21 |
| 2.933 | 0.81 | 8.933  | 2.42  | 14.933 | 2.42 | 20.93 | 1.21 |
| 2.967 | 0.81 | 8.967  | 2.42  | 14.967 | 2.42 | 20.97 | 1.21 |
| 3.000 | 0.81 | 9.000  | 2.42  | 15.000 | 2.42 | 21.00 | 1.21 |
| 3.033 | 0.81 | 9.033  | 2.42  | 15.033 | 2.02 | 21.03 | 0.81 |
| 3.067 | 0.81 | 9.067  | 2.42  | 15.067 | 2.02 | 21.07 | 0.81 |
| 3.100 | 0.81 | 9.100  | 2.42  | 15.100 | 2.02 | 21.10 | 0.81 |
| 3.133 | 0.81 | 9.133  | 2.42  | 15.133 | 2.02 | 21.13 | 0.81 |
| 3.167 | 0.81 | 9.167  | 2.42  | 15.167 | 2.02 | 21.17 | 0.81 |
| 3.200 | 0.81 | 9.200  | 2.42  | 15.200 | 2.02 | 21.20 | 0.81 |
| 3.233 | 0.81 | 9.233  | 2.42  | 15.233 | 2.02 | 21.23 | 1.21 |
| 3.267 | 0.81 | 9.267  | 2.42  | 15.267 | 2.02 | 21.27 | 1.21 |
| 3.300 | 0.81 | 9.300  | 2.42  | 15.300 | 2.02 | 21.30 | 1.21 |
| 3.333 | 0.81 | 9.333  | 2.42  | 15.333 | 2.02 | 21.33 | 1.21 |
| 3.367 | 0.81 | 9.367  | 2.42  | 15.367 | 2.02 | 21.37 | 1.21 |
| 3.400 | 0.81 | 9.400  | 2.42  | 15.400 | 2.02 | 21.40 | 1.21 |
| 3.433 | 0.81 | 9.433  | 2.42  | 15.433 | 2.02 | 21.43 | 0.81 |
| 3.467 | 0.81 | 9.467  | 2.42  | 15.467 | 2.02 | 21.47 | 0.81 |
| 3.500 | 0.81 | 9.500  | 2.42  | 15.500 | 2.02 | 21.50 | 0.81 |
| 3.533 | 0.81 | 9.533  | 2.42  | 15.533 | 2.02 | 21.53 | 0.81 |
| 3.567 | 0.81 | 9.567  | 2.42  | 15.567 | 2.02 | 21.57 | 0.81 |
| 3.600 | 0.81 | 9.600  | 2.42  | 15.600 | 2.02 | 21.60 | 0.81 |
| 3.633 | 0.81 | 9.633  | 2.42  | 15.633 | 2.02 | 21.63 | 1.21 |
| 3.667 | 0.81 | 9.667  | 2.42  | 15.667 | 2.02 | 21.67 | 1.21 |
| 3.700 | 0.81 | 9.700  | 2.42  | 15.700 | 2.02 | 21.70 | 1.21 |
| 3.733 | 0.81 | 9.733  | 2.42  | 15.733 | 2.02 | 21.73 | 1.21 |
| 3.767 | 0.81 | 9.767  | 2.42  | 15.767 | 2.02 | 21.77 | 1.21 |
| 3.800 | 0.81 | 9.800  | 2.42  | 15.800 | 2.02 | 21.80 | 1.21 |
| 3.833 | 0.81 | 9.833  | 2.42  | 15.833 | 2.02 | 21.83 | 0.81 |
| 3.867 | 0.81 | 9.867  | 2.42  | 15.867 | 2.02 | 21.87 | 0.81 |
| 3.900 | 0.81 | 9.900  | 2.42  | 15.900 | 2.02 | 21.90 | 0.81 |
| 3.933 | 0.81 | 9.933  | 2.42  | 15.933 | 2.02 | 21.93 | 0.81 |
| 3.967 | 0.81 | 9.967  | 2.42  | 15.967 | 2.02 | 21.97 | 0.81 |
| 4.000 | 0.81 | 10.000 | 2.42  | 16.000 | 2.02 | 22.00 | 0.81 |
| 4.033 | 1.61 | 10.033 | 4.44  | 16.033 | 2.02 | 22.03 | 0.81 |
| 4.067 | 1.61 | 10.067 | 4.44  | 16.067 | 2.02 | 22.07 | 0.81 |
| 4.100 | 1.61 | 10.100 | 4.44  | 16.100 | 2.02 | 22.10 | 0.81 |
| 4.133 | 1.61 | 10.133 | 4.44  | 16.133 | 2.02 | 22.13 | 0.81 |
| 4.167 | 1.61 | 10.167 | 4.44  | 16.167 | 2.02 | 22.17 | 0.81 |
| 4.200 | 1.61 | 10.200 | 4.44  | 16.200 | 2.02 | 22.20 | 0.81 |
| 4.233 | 1.61 | 10.233 | 4.44  | 16.233 | 2.02 | 22.23 | 1.21 |
| 4.267 | 1.61 | 10.267 | 4.44  | 16.267 | 2.02 | 22.27 | 1.21 |
| 4.300 | 1.61 | 10.300 | 4.44  | 16.300 | 2.02 | 22.30 | 1.21 |
| 4.333 | 1.61 | 10.333 | 4.44  | 16.333 | 2.02 | 22.33 | 1.21 |
| 4.367 | 1.61 | 10.367 | 4.44  | 16.367 | 2.02 | 22.37 | 1.21 |
| 4.400 | 1.61 | 10.400 | 4.44  | 16.400 | 2.02 | 22.40 | 1.21 |
| 4.433 | 1.61 | 10.433 | 4.44  | 16.433 | 2.02 | 22.43 | 0.81 |
| 4.467 | 1.61 | 10.467 | 4.44  | 16.467 | 2.02 | 22.47 | 0.81 |
| 4.500 | 1.61 | 10.500 | 4.44  | 16.500 | 2.02 | 22.50 | 0.81 |
| 4.533 | 1.61 | 10.533 | 4.44  | 16.533 | 2.02 | 22.53 | 0.81 |
| 4.567 | 1.61 | 10.567 | 4.44  | 16.567 | 2.02 | 22.57 | 0.81 |
| 4.600 | 1.61 | 10.600 | 4.44  | 16.600 | 2.02 | 22.60 | 0.81 |
| 4.633 | 1.61 | 10.633 | 4.44  | 16.633 | 2.02 | 22.63 | 1.21 |
| 4.667 | 1.61 | 10.667 | 4.44  | 16.667 | 2.02 | 22.67 | 1.21 |
| 4.700 | 1.61 | 10.700 | 4.44  | 16.700 | 2.02 | 22.70 | 1.21 |
| 4.733 | 1.61 | 10.733 | 4.44  | 16.733 | 2.02 | 22.73 | 1.21 |
| 4.767 | 1.61 | 10.767 | 4.44  | 16.767 | 2.02 | 22.77 | 1.21 |
| 4.800 | 1.61 | 10.800 | 4.44  | 16.800 | 2.02 | 22.80 | 1.21 |
| 4.833 | 1.61 | 10.833 | 4.44  | 16.833 | 1.21 | 22.83 | 0.81 |
| 4.867 | 1.61 | 10.867 | 4.44  | 16.867 | 1.21 | 22.87 | 0.81 |
| 4.900 | 1.61 | 10.900 | 4.44  | 16.900 | 1.21 | 22.90 | 0.81 |
| 4.933 | 1.61 | 10.933 | 4.44  | 16.933 | 1.21 | 22.93 | 0.81 |
| 4.967 | 1.61 | 10.967 | 4.44  | 16.967 | 1.21 | 22.97 | 0.81 |
| 5.000 | 1.61 | 11.000 | 4.44  | 17.000 | 1.21 | 23.00 | 0.81 |
| 5.033 | 1.61 | 11.033 | 6.05  | 17.033 | 1.21 | 23.03 | 0.81 |
| 5.067 | 1.61 | 11.067 | 6.05  | 17.067 | 1.21 | 23.07 | 0.81 |
| 5.100 | 1.61 | 11.100 | 6.05  | 17.100 | 1.21 | 23.10 | 0.81 |
| 5.133 | 1.61 | 11.133 | 6.05  | 17.133 | 1.21 | 23.13 | 0.81 |
| 5.167 | 1.61 | 11.167 | 6.05  | 17.167 | 1.21 | 23.17 | 0.81 |
| 5.200 | 1.61 | 11.200 | 6.06  | 17.200 | 1.21 | 23.20 | 0.81 |
| 5.233 | 1.61 | 11.233 | 8.88  | 17.233 | 1.61 | 23.23 | 0.81 |
| 5.267 | 1.61 | 11.267 | 8.88  | 17.267 | 1.61 | 23.27 | 0.81 |
| 5.300 | 1.61 | 11.300 | 8.88  | 17.300 | 1.61 | 23.30 | 0.81 |
| 5.333 | 1.61 | 11.333 | 8.88  | 17.333 | 1.61 | 23.33 | 0.81 |
| 5.367 | 1.61 | 11.367 | 8.88  | 17.367 | 1.61 | 23.37 | 0.81 |
| 5.400 | 1.61 | 11.400 | 8.89  | 17.400 | 1.61 | 23.40 | 0.81 |
| 5.433 | 1.61 | 11.433 | 21.39 | 17.433 | 1.21 | 23.43 | 1.21 |
| 5.467 | 1.61 | 11.467 | 21.39 | 17.467 | 1.21 | 23.47 | 1.21 |
| 5.500 | 1.61 | 11.500 | 21.39 | 17.500 | 1.21 | 23.50 | 1.21 |
| 5.533 | 1.61 | 11.533 | 21.39 | 17.533 | 1.21 | 23.53 | 1.21 |
| 5.567 | 1.61 | 11.567 | 21.39 | 17.567 | 1.21 | 23.57 | 1.21 |
| 5.600 | 1.61 | 11.600 | 21.41 | 17.600 | 1.21 | 23.60 | 1.21 |
| 5.633 | 1.61 | 11.633 | 44.39 | 17.633 | 1.61 | 23.63 | 0.81 |
| 5.667 | 1.61 | 11.667 | 44.39 | 17.667 | 1.61 | 23.67 | 0.81 |
| 5.700 | 1.61 | 11.700 | 44.39 | 17.700 | 1.61 | 23.70 | 0.81 |
| 5.733 | 1.61 | 11.733 | 44.39 | 17.733 | 1.61 | 23.73 | 0.81 |
| 5.767 | 1.61 | 11.767 | 44.39 | 17.767 | 1.61 | 23.77 | 0.81 |
| 5.800 | 1.61 | 11.800 | 44.45 | 17.800 | 1.61 | 23.80 | 0.81 |
| 5.833 | 1.61 | 11.833 | 90.79 | 17.833 | 1.21 | 23.83 | 0.81 |
| 5.867 | 1.61 | 11.867 | 90.79 | 17.867 | 1.21 | 23.87 | 0.81 |
| 5.900 | 1.61 | 11.900 | 90.79 | 17.900 | 1.21 | 23.90 | 0.81 |
| 5.933 | 1.61 | 11.933 | 90.79 | 17.933 | 1.21 | 23.93 | 0.81 |
| 5.967 | 1.61 | 11.967 | 90.79 | 17.967 | 1.21 | 23.97 | 0.81 |
| 6.000 | 1.61 | 12.000 | 90.68 | 18.000 | 1.21 | 24.00 | 0.81 |

Unit Hyd Qpeak (cms)= 0.731

PEAK FLOW (cms)= 0.335 (i)  
TIME TO PEAK (hrs)= 12.067  
RUNOFF VOLUME (mm)= 40.907  
TOTAL RAINFALL (mm)= 80.699  
RUNOFF COEFFICIENT = 0.507

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |               |      |                      |      |
|-------------------|---------------|------|----------------------|------|
| CALIB             |               |      |                      |      |
| NASHYD ( 0404)    | Area (ha)=    | 0.85 | Curve Number (CN)=   | 86.0 |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 4.80 | # of Linear Res.(N)= | 3.00 |
|                   | U.H. Tp(hrs)= | 0.20 |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME  | RAIN  | TIME  | RAIN  | TIME   | RAIN  | TIME  | RAIN  |
|-------|-------|-------|-------|--------|-------|-------|-------|
| hrs   | mm/hr | hrs   | mm/hr | hrs    | mm/hr | hrs   | mm/hr |
| 0.033 | 0.81  | 6.033 | 1.61  | 12.033 | 16.14 | 18.03 | 1.21  |
| 0.067 | 0.81  | 6.067 | 1.61  | 12.067 | 16.14 | 18.07 | 1.21  |
| 0.100 | 0.81  | 6.100 | 1.61  | 12.100 | 16.14 | 18.10 | 1.21  |
| 0.133 | 0.81  | 6.133 | 1.61  | 12.133 | 16.14 | 18.13 | 1.21  |

|       |      |       |      |        |       |       |      |
|-------|------|-------|------|--------|-------|-------|------|
| 0.167 | 0.81 | 6.167 | 1.61 | 12.167 | 16.14 | 18.17 | 1.21 |
| 0.200 | 0.81 | 6.200 | 1.61 | 12.200 | 16.13 | 18.20 | 1.21 |
| 0.233 | 0.81 | 6.233 | 1.61 | 12.233 | 10.09 | 18.23 | 1.21 |
| 0.267 | 0.81 | 6.267 | 1.61 | 12.267 | 10.09 | 18.27 | 1.21 |
| 0.300 | 0.81 | 6.300 | 1.61 | 12.300 | 10.09 | 18.30 | 1.21 |
| 0.333 | 0.81 | 6.333 | 1.61 | 12.333 | 10.09 | 18.33 | 1.21 |
| 0.367 | 0.81 | 6.367 | 1.61 | 12.367 | 10.09 | 18.37 | 1.21 |
| 0.400 | 0.81 | 6.400 | 1.61 | 12.400 | 10.09 | 18.40 | 1.21 |
| 0.433 | 0.81 | 6.433 | 1.61 | 12.433 | 7.26  | 18.43 | 1.61 |
| 0.467 | 0.81 | 6.467 | 1.61 | 12.467 | 7.26  | 18.47 | 1.61 |
| 0.500 | 0.81 | 6.500 | 1.61 | 12.500 | 7.26  | 18.50 | 1.61 |
| 0.533 | 0.81 | 6.533 | 1.61 | 12.533 | 7.26  | 18.53 | 1.61 |
| 0.567 | 0.81 | 6.567 | 1.61 | 12.567 | 7.26  | 18.57 | 1.61 |
| 0.600 | 0.81 | 6.600 | 1.61 | 12.600 | 7.26  | 18.60 | 1.61 |
| 0.633 | 0.81 | 6.633 | 1.61 | 12.633 | 6.86  | 18.63 | 1.21 |
| 0.667 | 0.81 | 6.667 | 1.61 | 12.667 | 6.86  | 18.67 | 1.21 |
| 0.700 | 0.81 | 6.700 | 1.61 | 12.700 | 6.86  | 18.70 | 1.21 |
| 0.733 | 0.81 | 6.733 | 1.61 | 12.733 | 6.86  | 18.73 | 1.21 |
| 0.767 | 0.81 | 6.767 | 1.61 | 12.767 | 6.86  | 18.77 | 1.21 |
| 0.800 | 0.81 | 6.800 | 1.61 | 12.800 | 6.86  | 18.80 | 1.21 |
| 0.833 | 0.81 | 6.833 | 1.61 | 12.833 | 4.84  | 18.83 | 1.21 |
| 0.867 | 0.81 | 6.867 | 1.61 | 12.867 | 4.84  | 18.87 | 1.21 |
| 0.900 | 0.81 | 6.900 | 1.61 | 12.900 | 4.84  | 18.90 | 1.21 |
| 0.933 | 0.81 | 6.933 | 1.61 | 12.933 | 4.84  | 18.93 | 1.21 |
| 0.967 | 0.81 | 6.967 | 1.61 | 12.967 | 4.84  | 18.97 | 1.21 |
| 1.000 | 0.81 | 7.000 | 1.61 | 13.000 | 4.84  | 19.00 | 1.21 |
| 1.033 | 0.81 | 7.033 | 1.61 | 13.033 | 4.03  | 19.03 | 1.61 |
| 1.067 | 0.81 | 7.067 | 1.61 | 13.067 | 4.03  | 19.07 | 1.61 |
| 1.100 | 0.81 | 7.100 | 1.61 | 13.100 | 4.03  | 19.10 | 1.61 |
| 1.133 | 0.81 | 7.133 | 1.61 | 13.133 | 4.03  | 19.13 | 1.61 |
| 1.167 | 0.81 | 7.167 | 1.61 | 13.167 | 4.03  | 19.17 | 1.61 |
| 1.200 | 0.81 | 7.200 | 1.61 | 13.200 | 4.04  | 19.20 | 1.61 |
| 1.233 | 0.81 | 7.233 | 1.61 | 13.233 | 4.03  | 19.23 | 1.21 |
| 1.267 | 0.81 | 7.267 | 1.61 | 13.267 | 4.03  | 19.27 | 1.21 |
| 1.300 | 0.81 | 7.300 | 1.61 | 13.300 | 4.03  | 19.30 | 1.21 |
| 1.333 | 0.81 | 7.333 | 1.61 | 13.333 | 4.03  | 19.33 | 1.21 |
| 1.367 | 0.81 | 7.367 | 1.61 | 13.367 | 4.03  | 19.37 | 1.21 |
| 1.400 | 0.81 | 7.400 | 1.61 | 13.400 | 4.04  | 19.40 | 1.21 |

|       |      |        |       |        |      |       |      |
|-------|------|--------|-------|--------|------|-------|------|
| 4.400 | 1.61 | 10.400 | 4.44  | 16.400 | 2.02 | 22.40 | 1.21 |
| 4.433 | 1.61 | 10.433 | 4.44  | 16.433 | 2.02 | 22.43 | 0.81 |
| 4.467 | 1.61 | 10.467 | 4.44  | 16.467 | 2.02 | 22.47 | 0.81 |
| 4.500 | 1.61 | 10.500 | 4.44  | 16.500 | 2.02 | 22.50 | 0.81 |
| 4.533 | 1.61 | 10.533 | 4.44  | 16.533 | 2.02 | 22.53 | 0.81 |
| 4.567 | 1.61 | 10.567 | 4.44  | 16.567 | 2.02 | 22.57 | 0.81 |
| 4.600 | 1.61 | 10.600 | 4.44  | 16.600 | 2.02 | 22.60 | 0.81 |
| 4.633 | 1.61 | 10.633 | 4.44  | 16.633 | 2.02 | 22.63 | 1.21 |
| 4.667 | 1.61 | 10.667 | 4.44  | 16.667 | 2.02 | 22.67 | 1.21 |
| 4.700 | 1.61 | 10.700 | 4.44  | 16.700 | 2.02 | 22.70 | 1.21 |
| 4.733 | 1.61 | 10.733 | 4.44  | 16.733 | 2.02 | 22.73 | 1.21 |
| 4.767 | 1.61 | 10.767 | 4.44  | 16.767 | 2.02 | 22.77 | 1.21 |
| 4.800 | 1.61 | 10.800 | 4.44  | 16.800 | 2.02 | 22.80 | 1.21 |
| 4.833 | 1.61 | 10.833 | 4.44  | 16.833 | 1.21 | 22.83 | 0.81 |
| 4.867 | 1.61 | 10.867 | 4.44  | 16.867 | 1.21 | 22.87 | 0.81 |
| 4.900 | 1.61 | 10.900 | 4.44  | 16.900 | 1.21 | 22.90 | 0.81 |
| 4.933 | 1.61 | 10.933 | 4.44  | 16.933 | 1.21 | 22.93 | 0.81 |
| 4.967 | 1.61 | 10.967 | 4.44  | 16.967 | 1.21 | 22.97 | 0.81 |
| 5.000 | 1.61 | 11.000 | 4.44  | 17.000 | 1.21 | 23.00 | 0.81 |
| 5.033 | 1.61 | 11.033 | 6.05  | 17.033 | 1.21 | 23.03 | 0.81 |
| 5.067 | 1.61 | 11.067 | 6.05  | 17.067 | 1.21 | 23.07 | 0.81 |
| 5.100 | 1.61 | 11.100 | 6.05  | 17.100 | 1.21 | 23.10 | 0.81 |
| 5.133 | 1.61 | 11.133 | 6.05  | 17.133 | 1.21 | 23.13 | 0.81 |
| 5.167 | 1.61 | 11.167 | 6.05  | 17.167 | 1.21 | 23.17 | 0.81 |
| 5.200 | 1.61 | 11.200 | 6.06  | 17.200 | 1.21 | 23.20 | 0.81 |
| 5.233 | 1.61 | 11.233 | 8.88  | 17.233 | 1.61 | 23.23 | 0.81 |
| 5.267 | 1.61 | 11.267 | 8.88  | 17.267 | 1.61 | 23.27 | 0.81 |
| 5.300 | 1.61 | 11.300 | 8.88  | 17.300 | 1.61 | 23.30 | 0.81 |
| 5.333 | 1.61 | 11.333 | 8.88  | 17.333 | 1.61 | 23.33 | 0.81 |
| 5.367 | 1.61 | 11.367 | 8.88  | 17.367 | 1.61 | 23.37 | 0.81 |
| 5.400 | 1.61 | 11.400 | 8.89  | 17.400 | 1.61 | 23.40 | 0.81 |
| 5.433 | 1.61 | 11.433 | 21.39 | 17.433 | 1.21 | 23.43 | 1.21 |
| 5.467 | 1.61 | 11.467 | 21.39 | 17.467 | 1.21 | 23.47 | 1.21 |
| 5.500 | 1.61 | 11.500 | 21.39 | 17.500 | 1.21 | 23.50 | 1.21 |
| 5.533 | 1.61 | 11.533 | 21.39 | 17.533 | 1.21 | 23.53 | 1.21 |
| 5.567 | 1.61 | 11.567 | 21.39 | 17.567 | 1.21 | 23.57 | 1.21 |
| 5.600 | 1.61 | 11.600 | 21.41 | 17.600 | 1.21 | 23.60 | 1.21 |
| 5.633 | 1.61 | 11.633 | 44.39 | 17.633 | 1.61 | 23.63 | 0.81 |
| 5.667 | 1.61 | 11.667 | 44.39 | 17.667 | 1.61 | 23.67 | 0.81 |
| 5.700 | 1.61 | 11.700 | 44.39 | 17.700 | 1.61 | 23.70 | 0.81 |
| 5.733 | 1.61 | 11.733 | 44.39 | 17.733 | 1.61 | 23.73 | 0.81 |
| 5.767 | 1.61 | 11.767 | 44.39 | 17.767 | 1.61 | 23.77 | 0.81 |
| 5.800 | 1.61 | 11.800 | 44.45 | 17.800 | 1.61 | 23.80 | 0.81 |
| 5.833 | 1.61 | 11.833 | 90.79 | 17.833 | 1.21 | 23.83 | 0.81 |
| 5.867 | 1.61 | 11.867 | 90.79 | 17.867 | 1.21 | 23.87 | 0.81 |
| 5.900 | 1.61 | 11.900 | 90.79 | 17.900 | 1.21 | 23.90 | 0.81 |
| 5.933 | 1.61 | 11.933 | 90.79 | 17.933 | 1.21 | 23.93 | 0.81 |
| 5.967 | 1.61 | 11.967 | 90.79 | 17.967 | 1.21 | 23.97 | 0.81 |
| 6.000 | 1.61 | 12.000 | 90.68 | 18.000 | 1.21 | 24.00 | 0.81 |

Unit Hyd Qpeak (cms)= 0.162

PEAK FLOW (cms)= 0.103 (i)

TIME TO PEAK (hrs)= 12.100

RUNOFF VOLUME (mm)= 49.130

TOTAL RAINFALL (mm)= 80.699

RUNOFF COEFFICIENT = 0.609

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |      |       |       |       |
|-------------------|------|-------|-------|-------|
| ADD HYD ( 0041)   |      |       |       |       |
| 1 + 2 = 3         |      |       |       |       |
|                   | AREA | QPEAK | TPEAK | R.V.  |
|                   | (ha) | (cms) | (hrs) | (mm)  |
| ID1= 1 ( 0403):   | 2.87 | 0.335 | 12.07 | 40.91 |
| + ID2= 2 ( 0404): | 0.85 | 0.103 | 12.10 | 49.13 |
| =====             |      |       |       |       |
| ID = 3 ( 0041):   | 3.72 | 0.437 | 12.07 | 42.79 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| ADD HYD ( 0042)   |       |       |       |       |
| 1 + 2 = 3         |       |       |       |       |
|                   | AREA  | QPEAK | TPEAK | R.V.  |
|                   | (ha)  | (cms) | (hrs) | (mm)  |
| ID1= 1 ( 0040):   | 13.55 | 1.538 | 12.07 | 40.83 |
| + ID2= 2 ( 0041): | 3.72  | 0.437 | 12.07 | 42.79 |
| =====             |       |       |       |       |
| ID = 3 ( 0042):   | 17.27 | 1.976 | 12.07 | 41.25 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                        |         |         |         |         |
|------------------------|---------|---------|---------|---------|
| RESERVOIR( 0202)       |         |         |         |         |
| IN= 2---> OUT= 1       |         |         |         |         |
| DT= 2.0 min            |         |         |         |         |
| OVERFLOW IS OFF        |         |         |         |         |
|                        | OUTFLOW | STORAGE | OUTFLOW | STORAGE |
|                        | (cms)   | (ha.m.) | (cms)   | (ha.m.) |
|                        | 0.0000  | 0.0000  | 1.2780  | 0.5195  |
|                        | 0.0070  | 0.0918  | 1.4910  | 0.6170  |
|                        | 0.0500  | 0.1672  | 1.7350  | 0.7524  |
|                        | 0.1740  | 0.2483  | 2.7110  | 0.8941  |
|                        | 0.6720  | 0.3349  | 5.2440  | 1.1182  |
|                        | 1.0220  | 0.4254  | 0.0000  | 0.0000  |
|                        | AREA    | QPEAK   | TPEAK   | R.V.    |
|                        | (ha)    | (cms)   | (hrs)   | (mm)    |
| INFLOW : ID= 2 ( 0042) | 17.270  | 1.976   | 12.07   | 41.25   |
| OUTFLOW: ID= 1 ( 0202) | 17.270  | 0.599   | 12.43   | 39.13   |

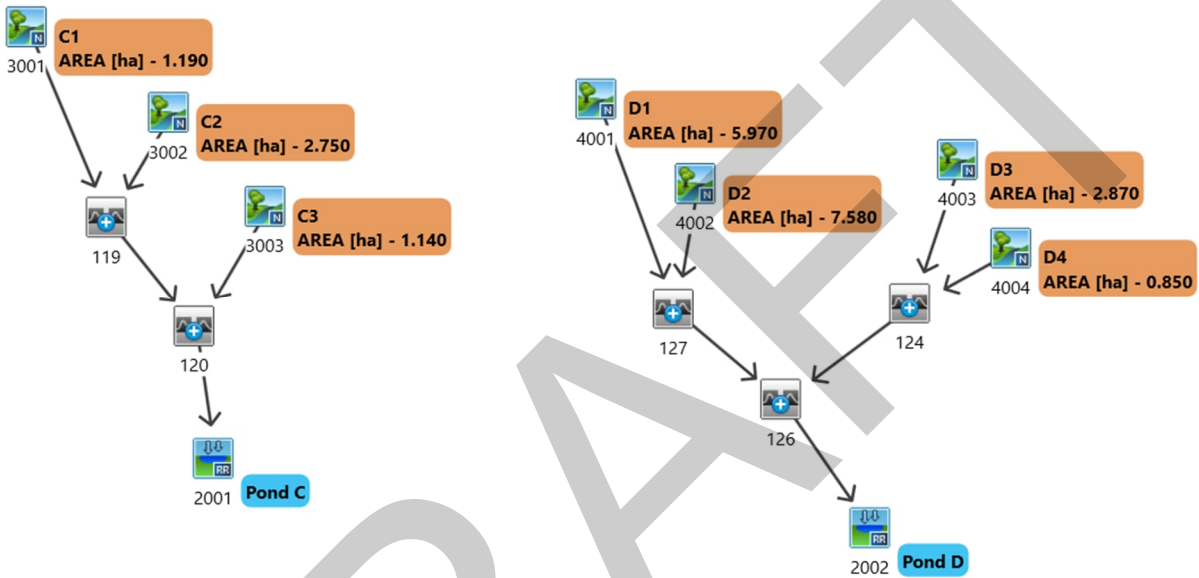
PEAK FLOW REDUCTION [Qout/Qin](%)= 30.31  
TIME SHIFT OF PEAK FLOW (min)= 22.00  
MAXIMUM STORAGE USED (ha.m.)= 0.3222

|                   |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| ADD HYD ( 0080)   |       |       |       |       |
| 1 + 2 = 3         |       |       |       |       |
|                   | AREA  | QPEAK | TPEAK | R.V.  |
|                   | (ha)  | (cms) | (hrs) | (mm)  |
| ID1= 1 ( 0202):   | 17.27 | 0.599 | 12.43 | 39.13 |
| + ID2= 2 ( 0033): | 14.33 | 0.434 | 12.33 | 32.46 |
| =====             |       |       |       |       |
| ID = 3 ( 0080):   | 31.60 | 1.023 | 12.40 | 36.10 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

FINISH

# PROPOSED VISUAL OTTHYMO MODEL OUTPUT REGIONAL STORM



V V I SSSSS U U A L (v 6.2.2015)  
V V I SS U U A A L  
V V I SS U U A A A A L  
V V I SS U U A A L  
VV I SSSSS UUUUU A A LLLLL

000 TTTT TTTT H H Y Y M M 000 TM  
O O T T H H Y Y M M O O  
O O T T H H Y Y M M O O  
000 T T H H Y Y M M 000

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\*\*\*\*\* DETAILED OUTPUT \*\*\*\*\*

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.2\VO2\voindat  
Output filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde9009059\7c5e2a62-267d-414d-aa49-c74d2c99df5a\sc  
Summary filename: C:\Users\hfaulkner\AppData\Local\Civica\VH5\77c50d1d-6a10-4f32-be40-83fde9009059\7c5e2a62-267d-414d-aa49-c74d2c99df5a\sc

DATE: 09/21/2025 TIME: 03:02:45

USER:

COMMENTS:

\*\* SIMULATION : Regional Hurricane Hazel Stor \*\*

READ STORM Filename: C:\Users\hfaulkner\AppData\Local\Temp\03b986d9-9e10-4634-8398-7f56c3ead80b\edfe6953  
Total=212.00 mm Comments: Regional Hurricane Hazel Storm

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.00        | 6.00          | 3.00        | 13.00         | 6.00        | 23.00         | 9.00        | 53.00         |
| 0.20        | 6.00          | 3.20        | 13.00         | 6.20        | 23.00         | 9.20        | 53.00         |
| 0.40        | 6.00          | 3.40        | 13.00         | 6.40        | 23.00         | 9.40        | 53.00         |
| 0.60        | 6.00          | 3.60        | 13.00         | 6.60        | 23.00         | 9.60        | 53.00         |
| 0.80        | 6.00          | 3.80        | 13.00         | 6.80        | 23.00         | 9.80        | 53.00         |
| 1.00        | 4.00          | 4.00        | 17.00         | 7.00        | 13.00         | 10.00       | 38.00         |
| 1.20        | 4.00          | 4.20        | 17.00         | 7.20        | 13.00         | 10.20       | 38.00         |
| 1.40        | 4.00          | 4.40        | 17.00         | 7.40        | 13.00         | 10.40       | 38.00         |
| 1.60        | 4.00          | 4.60        | 17.00         | 7.60        | 13.00         | 10.60       | 38.00         |
| 1.80        | 4.00          | 4.80        | 17.00         | 7.80        | 13.00         | 10.80       | 38.00         |
| 2.00        | 6.00          | 5.00        | 13.00         | 8.00        | 13.00         | 11.00       | 13.00         |
| 2.20        | 6.00          | 5.20        | 13.00         | 8.20        | 13.00         | 11.20       | 13.00         |
| 2.40        | 6.00          | 5.40        | 13.00         | 8.40        | 13.00         | 11.40       | 13.00         |
| 2.60        | 6.00          | 5.60        | 13.00         | 8.60        | 13.00         | 11.60       | 13.00         |
| 2.80        | 6.00          | 5.80        | 13.00         | 8.80        | 13.00         | 11.80       | 13.00         |

CALIB NASHYD ( 3003 ) Area (ha)= 1.14 Curve Number (CN)= 92.0  
ID= 1 DT= 2.0 min Ia (mm)= 5.60 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| 0.033       | 6.00          | 3.033       | 13.00         | 6.033       | 23.00         | 9.03        | 53.00         |
| 0.067       | 6.00          | 3.067       | 13.00         | 6.067       | 23.00         | 9.07        | 53.00         |
| 0.100       | 6.00          | 3.100       | 13.00         | 6.100       | 23.00         | 9.10        | 53.00         |
| 0.133       | 6.00          | 3.133       | 13.00         | 6.133       | 23.00         | 9.13        | 53.00         |
| 0.167       | 6.00          | 3.167       | 13.00         | 6.167       | 23.00         | 9.17        | 53.00         |
| 0.200       | 6.00          | 3.200       | 13.00         | 6.200       | 23.00         | 9.20        | 53.00         |
| 0.233       | 6.00          | 3.233       | 13.00         | 6.233       | 23.00         | 9.23        | 53.00         |
| 0.267       | 6.00          | 3.267       | 13.00         | 6.267       | 23.00         | 9.27        | 53.00         |
| 0.300       | 6.00          | 3.300       | 13.00         | 6.300       | 23.00         | 9.30        | 53.00         |
| 0.333       | 6.00          | 3.333       | 13.00         | 6.333       | 23.00         | 9.33        | 53.00         |
| 0.367       | 6.00          | 3.367       | 13.00         | 6.367       | 23.00         | 9.37        | 53.00         |
| 0.400       | 6.00          | 3.400       | 13.00         | 6.400       | 23.00         | 9.40        | 53.00         |
| 0.433       | 6.00          | 3.433       | 13.00         | 6.433       | 23.00         | 9.43        | 53.00         |
| 0.467       | 6.00          | 3.467       | 13.00         | 6.467       | 23.00         | 9.47        | 53.00         |
| 0.500       | 6.00          | 3.500       | 13.00         | 6.500       | 23.00         | 9.50        | 53.00         |
| 0.533       | 6.00          | 3.533       | 13.00         | 6.533       | 23.00         | 9.53        | 53.00         |
| 0.567       | 6.00          | 3.567       | 13.00         | 6.567       | 23.00         | 9.57        | 53.00         |
| 0.600       | 6.00          | 3.600       | 13.00         | 6.600       | 23.00         | 9.60        | 53.00         |
| 0.633       | 6.00          | 3.633       | 13.00         | 6.633       | 23.00         | 9.63        | 53.00         |
| 0.667       | 6.00          | 3.667       | 13.00         | 6.667       | 23.00         | 9.67        | 53.00         |
| 0.700       | 6.00          | 3.700       | 13.00         | 6.700       | 23.00         | 9.70        | 53.00         |
| 0.733       | 6.00          | 3.733       | 13.00         | 6.733       | 23.00         | 9.73        | 53.00         |
| 0.767       | 6.00          | 3.767       | 13.00         | 6.767       | 23.00         | 9.77        | 53.00         |
| 0.800       | 6.00          | 3.800       | 13.00         | 6.800       | 23.00         | 9.80        | 53.00         |
| 0.833       | 6.00          | 3.833       | 13.00         | 6.833       | 23.00         | 9.83        | 53.00         |
| 0.867       | 6.00          | 3.867       | 13.00         | 6.867       | 23.00         | 9.87        | 53.00         |
| 0.900       | 6.00          | 3.900       | 13.00         | 6.900       | 23.00         | 9.90        | 53.00         |
| 0.933       | 6.00          | 3.933       | 13.00         | 6.933       | 23.00         | 9.93        | 53.00         |
| 0.967       | 6.00          | 3.967       | 13.00         | 6.967       | 23.00         | 9.97        | 53.00         |
| 1.000       | 6.00          | 4.000       | 13.00         | 7.000       | 23.00         | 10.00       | 52.99         |
| 1.033       | 4.00          | 4.033       | 17.00         | 7.033       | 13.00         | 10.03       | 38.00         |
| 1.067       | 4.00          | 4.067       | 17.00         | 7.067       | 13.00         | 10.07       | 38.00         |
| 1.100       | 4.00          | 4.100       | 17.00         | 7.100       | 13.00         | 10.10       | 38.00         |
| 1.133       | 4.00          | 4.133       | 17.00         | 7.133       | 13.00         | 10.13       | 38.00         |
| 1.167       | 4.00          | 4.167       | 17.00         | 7.167       | 13.00         | 10.17       | 38.00         |
| 1.200       | 4.00          | 4.200       | 17.00         | 7.200       | 13.00         | 10.20       | 38.00         |
| 1.233       | 4.00          | 4.233       | 17.00         | 7.233       | 13.00         | 10.23       | 38.00         |
| 1.267       | 4.00          | 4.267       | 17.00         | 7.267       | 13.00         | 10.27       | 38.00         |
| 1.300       | 4.00          | 4.300       | 17.00         | 7.300       | 13.00         | 10.30       | 38.00         |
| 1.333       | 4.00          | 4.333       | 17.00         | 7.333       | 13.00         | 10.33       | 38.00         |
| 1.367       | 4.00          | 4.367       | 17.00         | 7.367       | 13.00         | 10.37       | 38.00         |
| 1.400       | 4.00          | 4.400       | 17.00         | 7.400       | 13.00         | 10.40       | 38.00         |
| 1.433       | 4.00          | 4.433       | 17.00         | 7.433       | 13.00         | 10.43       | 38.00         |
| 1.467       | 4.00          | 4.467       | 17.00         | 7.467       | 13.00         | 10.47       | 38.00         |
| 1.500       | 4.00          | 4.500       | 17.00         | 7.500       | 13.00         | 10.50       | 38.00         |

|       |      |       |       |       |       |       |       |
|-------|------|-------|-------|-------|-------|-------|-------|
| 1.533 | 4.00 | 4.533 | 17.00 | 7.533 | 13.00 | 10.53 | 38.00 |
| 1.567 | 4.00 | 4.567 | 17.00 | 7.567 | 13.00 | 10.57 | 38.00 |
| 1.600 | 4.00 | 4.600 | 17.00 | 7.600 | 13.00 | 10.60 | 38.00 |
| 1.633 | 4.00 | 4.633 | 17.00 | 7.633 | 13.00 | 10.63 | 38.00 |
| 1.667 | 4.00 | 4.667 | 17.00 | 7.667 | 13.00 | 10.67 | 38.00 |
| 1.700 | 4.00 | 4.700 | 17.00 | 7.700 | 13.00 | 10.70 | 38.00 |
| 1.733 | 4.00 | 4.733 | 17.00 | 7.733 | 13.00 | 10.73 | 38.00 |
| 1.767 | 4.00 | 4.767 | 17.00 | 7.767 | 13.00 | 10.77 | 38.00 |
| 1.800 | 4.00 | 4.800 | 17.00 | 7.800 | 13.00 | 10.80 | 38.00 |
| 1.833 | 4.00 | 4.833 | 17.00 | 7.833 | 13.00 | 10.83 | 38.00 |
| 1.867 | 4.00 | 4.867 | 17.00 | 7.867 | 13.00 | 10.87 | 38.00 |
| 1.900 | 4.00 | 4.900 | 17.00 | 7.900 | 13.00 | 10.90 | 38.00 |
| 1.933 | 4.00 | 4.933 | 17.00 | 7.933 | 13.00 | 10.93 | 38.00 |
| 1.967 | 4.00 | 4.967 | 17.00 | 7.967 | 13.00 | 10.97 | 38.00 |
| 2.000 | 4.00 | 5.000 | 17.00 | 8.000 | 13.00 | 11.00 | 37.98 |
| 2.033 | 6.00 | 5.033 | 13.00 | 8.033 | 13.00 | 11.03 | 13.00 |
| 2.067 | 6.00 | 5.067 | 13.00 | 8.067 | 13.00 | 11.07 | 13.00 |
| 2.100 | 6.00 | 5.100 | 13.00 | 8.100 | 13.00 | 11.10 | 13.00 |
| 2.133 | 6.00 | 5.133 | 13.00 | 8.133 | 13.00 | 11.13 | 13.00 |
| 2.167 | 6.00 | 5.167 | 13.00 | 8.167 | 13.00 | 11.17 | 13.00 |
| 2.200 | 6.00 | 5.200 | 13.00 | 8.200 | 13.00 | 11.20 | 13.00 |
| 2.233 | 6.00 | 5.233 | 13.00 | 8.233 | 13.00 | 11.23 | 13.00 |
| 2.267 | 6.00 | 5.267 | 13.00 | 8.267 | 13.00 | 11.27 | 13.00 |
| 2.300 | 6.00 | 5.300 | 13.00 | 8.300 | 13.00 | 11.30 | 13.00 |
| 2.333 | 6.00 | 5.333 | 13.00 | 8.333 | 13.00 | 11.33 | 13.00 |
| 2.367 | 6.00 | 5.367 | 13.00 | 8.367 | 13.00 | 11.37 | 13.00 |
| 2.400 | 6.00 | 5.400 | 13.00 | 8.400 | 13.00 | 11.40 | 13.00 |
| 2.433 | 6.00 | 5.433 | 13.00 | 8.433 | 13.00 | 11.43 | 13.00 |
| 2.467 | 6.00 | 5.467 | 13.00 | 8.467 | 13.00 | 11.47 | 13.00 |
| 2.500 | 6.00 | 5.500 | 13.00 | 8.500 | 13.00 | 11.50 | 13.00 |
| 2.533 | 6.00 | 5.533 | 13.00 | 8.533 | 13.00 | 11.53 | 13.00 |
| 2.567 | 6.00 | 5.567 | 13.00 | 8.567 | 13.00 | 11.57 | 13.00 |
| 2.600 | 6.00 | 5.600 | 13.00 | 8.600 | 13.00 | 11.60 | 13.00 |
| 2.633 | 6.00 | 5.633 | 13.00 | 8.633 | 13.00 | 11.63 | 13.00 |
| 2.667 | 6.00 | 5.667 | 13.00 | 8.667 | 13.00 | 11.67 | 13.00 |
| 2.700 | 6.00 | 5.700 | 13.00 | 8.700 | 13.00 | 11.70 | 13.00 |
| 2.733 | 6.00 | 5.733 | 13.00 | 8.733 | 13.00 | 11.73 | 13.00 |
| 2.767 | 6.00 | 5.767 | 13.00 | 8.767 | 13.00 | 11.77 | 13.00 |
| 2.800 | 6.00 | 5.800 | 13.00 | 8.800 | 13.00 | 11.80 | 13.00 |
| 2.833 | 6.00 | 5.833 | 13.00 | 8.833 | 13.00 | 11.83 | 13.00 |
| 2.867 | 6.00 | 5.867 | 13.00 | 8.867 | 13.00 | 11.87 | 13.00 |
| 2.900 | 6.00 | 5.900 | 13.00 | 8.900 | 13.00 | 11.90 | 13.00 |
| 2.933 | 6.00 | 5.933 | 13.00 | 8.933 | 13.00 | 11.93 | 13.00 |
| 2.967 | 6.00 | 5.967 | 13.00 | 8.967 | 13.00 | 11.97 | 13.00 |
| 3.000 | 6.00 | 6.000 | 13.00 | 9.000 | 13.00 | 12.00 | 12.98 |

Unit Hyd Qpeak (cms)= 0.218

PEAK FLOW (cms)= 0.164 (i)  
TIME TO PEAK (hrs)= 10.000  
RUNOFF VOLUME (mm)= 186.437  
TOTAL RAINFALL (mm)= 211.999  
RUNOFF COEFFICIENT = 0.879

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB NASHYD ( 3002 ) Area (ha)= 2.75 Curve Number (CN)= 92.0  
ID= 1 DT= 2.0 min Ia (mm)= 6.80 # of Linear Res.(N)= 3.00  
U.H. Tp(hrs)= 0.21

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| ----- TRANSFORMED ----- |               |             |               | ----- HETOGRAPH ----- |               |             |               |
|-------------------------|---------------|-------------|---------------|-----------------------|---------------|-------------|---------------|
| TIME<br>hrs             | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs           | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                   | 6.00          | 3.033       | 13.00         | 6.033                 | 23.00         | 9.03        | 53.00         |
| 0.067                   | 6.00          | 3.067       | 13.00         | 6.067                 | 23.00         | 9.07        | 53.00         |
| 0.100                   | 6.00          | 3.100       | 13.00         | 6.100                 | 23.00         | 9.10        | 53.00         |
| 0.133                   | 6.00          | 3.133       | 13.00         | 6.133                 | 23.00         | 9.13        | 53.00         |
| 0.167                   | 6.00          | 3.167       | 13.00         | 6.167                 | 23.00         | 9.17        | 53.00         |
| 0.200                   | 6.00          | 3.200       | 13.00         | 6.200                 | 23.00         | 9.20        | 53.00         |
| 0.233                   | 6.00          | 3.233       | 13.00         | 6.233                 | 23.00         | 9.23        | 53.00         |
| 0.267                   | 6.00          | 3.267       | 13.00         | 6.267                 | 23.00         | 9.27        | 53.00         |
| 0.300                   | 6.00          | 3.300       | 13.00         | 6.300                 | 23.00         | 9.30        | 53.00         |
| 0.333                   | 6.00          | 3.333       | 13.00         | 6.333                 | 23.00         | 9.33        | 53.00         |
| 0.367                   | 6.00          | 3.367       | 13.00         | 6.367                 | 23.00         | 9.37        | 53.00         |
| 0.400                   | 6.00          | 3.400       | 13.00         | 6.400                 | 23.00         | 9.40        | 53.00         |
| 0.433                   | 6.00          | 3.433       | 13.00         | 6.433                 | 23.00         | 9.43        | 53.00         |
| 0.467                   | 6.00          | 3.467       | 13.00         | 6.467                 | 23.00         | 9.47        | 53.00         |
| 0.500                   | 6.00          | 3.500       | 13.00         | 6.500                 | 23.00         | 9.50        | 53.00         |
| 0.533                   | 6.00          | 3.533       | 13.00         | 6.533                 | 23.00         | 9.53        | 53.00         |
| 0.567                   | 6.00          | 3.567       | 13.00         | 6.567                 | 23.00         | 9.57        | 53.00         |
| 0.600                   | 6.00          | 3.600       | 13.00         | 6.600                 | 23.00         | 9.60        | 53.00         |
| 0.633                   | 6.00          | 3.633       | 13.00         | 6.633                 | 23.00         | 9.63        | 53.00         |
| 0.667                   | 6.00          | 3.667       | 13.00         | 6.667                 | 23.00         | 9.67        | 53.00         |
| 0.700                   | 6.00          | 3.700       | 13.00         | 6.700                 | 23.00         | 9.70        | 53.00         |
| 0.733                   | 6.00          | 3.733       | 13.00         | 6.733                 | 23.00         | 9.73        | 53.00         |
| 0.767                   | 6.00          | 3.767       | 13.00         | 6.767                 | 23.00         | 9.77        | 53.00         |
| 0.800                   | 6.00          | 3.800       | 13.00         | 6.800                 | 23.00         | 9.80        | 53.00         |
| 0.833                   | 6.00          | 3.833       | 13.00         | 6.833                 | 23.00         | 9.83        | 53.00         |
| 0.867                   | 6.00          | 3.867       | 13.00         | 6.867                 | 23.00         | 9.87        | 53.00         |
| 0.900                   | 6.00          | 3.900       | 13.00         | 6.900                 | 23.00         | 9.90        | 53.00         |
| 0.933                   | 6.00          | 3.933       | 13.00         | 6.933                 | 23.00         | 9.93        | 53.00         |
| 0.967                   | 6.00          | 3.967       | 13.00         | 6.967                 | 23.00         | 9.97        | 53.00         |
| 1.000                   | 4.00          | 4.000       | 17.00         | 7.000                 | 13.00         | 10.00       | 38.00         |
| 1.033                   | 4.00          | 4.033       | 17.00         | 7.033                 | 13.00         | 10.03       | 38.00         |
| 1.067                   | 4.00          | 4.067       | 17.00         | 7.067                 | 13.00         | 10.07       | 38.00         |
| 1.100                   | 4.00          | 4.100       | 17.00         | 7.100                 | 13.00         | 10.10       | 38.00         |
| 1.133                   | 4.00          | 4.133       | 17.00         | 7.133                 | 13.00         | 10.13       | 38.00         |
| 1.167                   | 4.00          | 4.167       | 17.00         | 7.167                 | 13.00         | 10.17       | 38.00         |
| 1.200                   | 4.00          | 4.200       | 17.00         | 7.200                 | 13.00         | 10.20       | 38.00         |
| 1.233                   | 4.00          | 4.233       | 17.00         | 7.233                 | 13.00         | 10.23       | 38.00         |
| 1.267                   | 4.00          | 4.267       | 17.00         | 7.267                 | 13.00         | 10.27       | 38.00         |
| 1.300                   | 4.00          | 4.300       | 17.00         | 7.300                 | 13.00         | 10.30       | 38.00         |
| 1.333                   | 4.00          | 4.333       | 17.00         | 7.333                 | 13.00         | 10.33       | 38.00         |
| 1.367                   | 4.00          | 4.367       | 17.00         | 7.367                 | 13.00         | 10.37       | 38.00         |
| 1.400                   | 4.00          | 4.400       | 17.00         | 7.400                 | 13.00         | 10.40       | 38.00         |
| 1.433                   | 4.00          | 4.433       | 17.00         | 7.433                 | 13.00         | 10.43       | 38.00         |
| 1.467                   | 4.00          | 4.467       | 17.00         | 7.467                 | 13.00         | 10.47       | 38.00         |
| 1.500                   | 4.00          | 4.500       | 17.00         | 7.500                 | 13.00         | 10.50       | 38.00         |
| 1.533                   | 4.00          | 4.533       | 17.00         | 7.533                 | 13.00         | 10.53       | 38.00         |
| 1.567                   | 4.00          | 4.567       | 17.00         | 7.567                 | 13.00         | 10.57       | 38.00         |
| 1.600                   | 4.00          | 4.600       | 17.00         | 7.600                 | 13.00         | 10.60       | 38.00         |
| 1.633                   | 4.00          | 4.633       | 17.00         | 7.633                 | 13.00         | 10.63       | 38.00         |
| 1.667                   | 4.00          | 4.667       | 17.00         | 7.667                 | 13.00         | 10.67       | 38.00         |
| 1.700                   | 4.00          | 4.700       | 17.00         | 7.700                 | 13.00         | 10.70       | 38.00         |
| 1.733                   | 4.00          | 4.733       | 17.00         | 7.733                 | 13.00         | 10.73       | 38.00         |
| 1.767                   | 4.00          | 4.767       | 17.00         | 7.767                 | 13.00         | 10.77       | 38.00         |
| 1.800                   | 4.00          | 4.800       | 17.00         | 7.800                 | 13.00         | 10.80       | 38.00         |
| 1.833                   | 4.00          | 4.833       | 17.00         | 7.833                 | 13.00         | 10.83       | 38.00         |
| 1.867                   | 4.00          | 4.867       | 17.00         | 7.867                 | 13.00         | 10.87       | 38.00         |
| 1.900                   | 4.00          | 4.900       | 17.00         | 7.900                 | 13.00         | 10.90       | 38.00         |
| 1.933                   | 4.00          | 4.933       | 17.00         | 7.933                 | 13.00         | 10.93       | 38.00         |

|       |      |       |       |       |       |       |       |
|-------|------|-------|-------|-------|-------|-------|-------|
| 1.967 | 4.00 | 4.967 | 17.00 | 7.967 | 13.00 | 10.97 | 38.00 |
| 2.000 | 4.00 | 5.000 | 17.00 | 8.000 | 13.00 | 11.00 | 37.98 |
| 2.033 | 6.00 | 5.033 | 13.00 | 8.033 | 13.00 | 11.03 | 13.00 |
| 2.067 | 6.00 | 5.067 | 13.00 | 8.067 | 13.00 | 11.07 | 13.00 |
| 2.100 | 6.00 | 5.100 | 13.00 | 8.100 | 13.00 | 11.10 | 13.00 |
| 2.133 | 6.00 | 5.133 | 13.00 | 8.133 | 13.00 | 11.13 | 13.00 |
| 2.167 | 6.00 | 5.167 | 13.00 | 8.167 | 13.00 | 11.17 | 13.00 |
| 2.200 | 6.00 | 5.200 | 13.00 | 8.200 | 13.00 | 11.20 | 13.00 |
| 2.233 | 6.00 | 5.233 | 13.00 | 8.233 | 13.00 | 11.23 | 13.00 |
| 2.267 | 6.00 | 5.267 | 13.00 | 8.267 | 13.00 | 11.27 | 13.00 |
| 2.300 | 6.00 | 5.300 | 13.00 | 8.300 | 13.00 | 11.30 | 13.00 |
| 2.333 | 6.00 | 5.333 | 13.00 | 8.333 | 13.00 | 11.33 | 13.00 |
| 2.367 | 6.00 | 5.367 | 13.00 | 8.367 | 13.00 | 11.37 | 13.00 |
| 2.400 | 6.00 | 5.400 | 13.00 | 8.400 | 13.00 | 11.40 | 13.00 |
| 2.433 | 6.00 | 5.433 | 13.00 | 8.433 | 13.00 | 11.43 | 13.00 |
| 2.467 | 6.00 | 5.467 | 13.00 | 8.467 | 13.00 | 11.47 | 13.00 |
| 2.500 | 6.00 | 5.500 | 13.00 | 8.500 | 13.00 | 11.50 | 13.00 |
| 2.533 | 6.00 | 5.533 | 13.00 | 8.533 | 13.00 | 11.53 | 13.00 |
| 2.567 | 6.00 | 5.567 | 13.00 | 8.567 | 13.00 | 11.57 | 13.00 |
| 2.600 | 6.00 | 5.600 | 13.00 | 8.600 | 13.00 | 11.60 | 13.00 |
| 2.633 | 6.00 | 5.633 | 13.00 | 8.633 | 13.00 | 11.63 | 13.00 |
| 2.667 | 6.00 | 5.667 | 13.00 | 8.667 | 13.00 | 11.67 | 13.00 |
| 2.700 | 6.00 | 5.700 | 13.00 | 8.700 | 13.00 | 11.70 | 13.00 |
| 2.733 | 6.00 | 5.733 | 13.00 | 8.733 | 13.00 | 11.73 | 13.00 |
| 2.767 | 6.00 | 5.767 | 13.00 | 8.767 | 13.00 | 11.77 | 13.00 |
| 2.800 | 6.00 | 5.800 | 13.00 | 8.800 | 13.00 | 11.80 | 13.00 |
| 2.833 | 6.00 | 5.833 | 13.00 | 8.833 | 13.00 | 11.83 | 13.00 |
| 2.867 | 6.00 | 5.867 | 13.00 | 8.867 | 13.00 | 11.87 | 13.00 |
| 2.900 | 6.00 | 5.900 | 13.00 | 8.900 | 13.00 | 11.90 | 13.00 |
| 2.933 | 6.00 | 5.933 | 13.00 | 8.933 | 13.00 | 11.93 | 13.00 |
| 2.967 | 6.00 | 5.967 | 13.00 | 8.967 | 13.00 | 11.97 | 13.00 |
| 3.000 | 6.00 | 6.000 | 13.00 | 9.000 | 13.01 | 12.00 | 12.98 |

Unit Hyd Qpeak (cms)= 0.500

PEAK FLOW (cms)= 0.396 (i)  
TIME TO PEAK (hrs)= 10.000  
RUNOFF VOLUME (mm)= 185.250  
TOTAL RAINFALL (mm)= 211.999  
RUNOFF COEFFICIENT = 0.874

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|       |      |       |       |       |       |       |       |
|-------|------|-------|-------|-------|-------|-------|-------|
| 2.400 | 6.00 | 5.400 | 13.00 | 8.400 | 13.00 | 11.40 | 13.00 |
| 2.433 | 6.00 | 5.433 | 13.00 | 8.433 | 13.00 | 11.43 | 13.00 |
| 2.467 | 6.00 | 5.467 | 13.00 | 8.467 | 13.00 | 11.47 | 13.00 |
| 2.500 | 6.00 | 5.500 | 13.00 | 8.500 | 13.00 | 11.50 | 13.00 |
| 2.533 | 6.00 | 5.533 | 13.00 | 8.533 | 13.00 | 11.53 | 13.00 |
| 2.567 | 6.00 | 5.567 | 13.00 | 8.567 | 13.00 | 11.57 | 13.00 |
| 2.600 | 6.00 | 5.600 | 13.00 | 8.600 | 13.00 | 11.60 | 13.00 |
| 2.633 | 6.00 | 5.633 | 13.00 | 8.633 | 13.00 | 11.63 | 13.00 |
| 2.667 | 6.00 | 5.667 | 13.00 | 8.667 | 13.00 | 11.67 | 13.00 |
| 2.700 | 6.00 | 5.700 | 13.00 | 8.700 | 13.00 | 11.70 | 13.00 |
| 2.733 | 6.00 | 5.733 | 13.00 | 8.733 | 13.00 | 11.73 | 13.00 |
| 2.767 | 6.00 | 5.767 | 13.00 | 8.767 | 13.00 | 11.77 | 13.00 |
| 2.800 | 6.00 | 5.800 | 13.00 | 8.800 | 13.00 | 11.80 | 13.00 |
| 2.833 | 6.00 | 5.833 | 13.00 | 8.833 | 13.00 | 11.83 | 13.00 |
| 2.867 | 6.00 | 5.867 | 13.00 | 8.867 | 13.00 | 11.87 | 13.00 |
| 2.900 | 6.00 | 5.900 | 13.00 | 8.900 | 13.00 | 11.90 | 13.00 |
| 2.933 | 6.00 | 5.933 | 13.00 | 8.933 | 13.00 | 11.93 | 13.00 |
| 2.967 | 6.00 | 5.967 | 13.00 | 8.967 | 13.00 | 11.97 | 13.00 |
| 3.000 | 6.00 | 6.000 | 13.00 | 9.000 | 13.01 | 12.00 | 12.98 |

Unit Hyd Qpeak (cms)= 0.189

PEAK FLOW (cms)= 0.171 (i)  
TIME TO PEAK (hrs)= 10.000  
RUNOFF VOLUME (mm)= 185.253  
TOTAL RAINFALL (mm)= 211.999  
RUNOFF COEFFICIENT = 0.874

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0119 )  |      |       |       | AREA   | QPEAK | TPEAK | R.V.   |
|-------------------|------|-------|-------|--------|-------|-------|--------|
| 1 + 2 = 3         |      |       |       | (ha)   | (cms) | (hrs) | (mm)   |
| ID1= 1 ( 3001):   | 1.19 | 0.171 | 10.00 | 185.25 |       |       |        |
| + ID2= 2 ( 3002): | 2.75 | 0.396 | 10.00 | 185.25 |       |       |        |
| ID = 3 ( 0119):   |      |       |       | 3.94   | 0.567 | 10.00 | 185.25 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD ( 0120 )  |      |       |       | AREA   | QPEAK | TPEAK | R.V.   |
|-------------------|------|-------|-------|--------|-------|-------|--------|
| 1 + 2 = 3         |      |       |       | (ha)   | (cms) | (hrs) | (mm)   |
| ID1= 1 ( 0119):   | 3.94 | 0.567 | 10.00 | 185.25 |       |       |        |
| + ID2= 2 ( 3003): | 1.14 | 0.164 | 10.00 | 186.44 |       |       |        |
| ID = 3 ( 0120):   |      |       |       | 5.08   | 0.731 | 10.00 | 185.52 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR( 2001 )                        |  |  |  | OVERFLOW IS OFF |         |         |         |
|------------------------------------------|--|--|--|-----------------|---------|---------|---------|
| IN= 2 ---> OUT= 1                        |  |  |  | OUTFLOW         | STORAGE | OUTFLOW | STORAGE |
| DT= 2.0 min                              |  |  |  | (cms)           | (ha.m.) | (cms)   | (ha.m.) |
|                                          |  |  |  | 0.0000          | 0.0000  | 0.0040  | 0.3591  |
|                                          |  |  |  | 0.0050          | 0.0623  | 0.0920  | 0.4212  |
|                                          |  |  |  | 0.0470          | 0.1654  | 0.5950  | 0.4851  |
|                                          |  |  |  | 0.0680          | 0.2596  | 2.6870  | 0.6182  |
| INFLOW : ID= 2 ( 0120)                   |  |  |  | AREA            | QPEAK   | TPEAK   | R.V.    |
| OUTFLOW: ID= 1 ( 2001)                   |  |  |  | (ha)            | (cms)   | (hrs)   | (mm)    |
|                                          |  |  |  | 5.080           | 0.731   | 10.00   | 185.52  |
|                                          |  |  |  | 5.080           | 0.586   | 10.40   | 180.14  |
| PEAK FLOW REDUCTION [Qout/Qin](%)= 80.11 |  |  |  |                 |         |         |         |
| TIME SHIFT OF PEAK FLOW (min)= 24.00     |  |  |  |                 |         |         |         |
| MAXIMUM STORAGE USED (ha.m.)= 0.4839     |  |  |  |                 |         |         |         |

| CALIB NASHYD ( 4004 ) |  |  |  | Area          | (ha)= | Curve Number (CN)=   | 94.0 |
|-----------------------|--|--|--|---------------|-------|----------------------|------|
| ID= 1 DT= 2.0 min     |  |  |  | Ia            | (mm)= | # of Linear Res.(N)= | 3.00 |
|                       |  |  |  | U.H. Tp(hrs)= | 0.20  |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |               |             |               |             |               |             |               |
|--------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| TIME<br>hrs                    | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr | TIME<br>hrs | RAIN<br>mm/hr |
| 0.033                          | 6.00          | 3.033       | 13.00         | 6.033       | 23.00         | 9.03        | 53.00         |
| 0.067                          | 6.00          | 3.067       | 13.00         | 6.067       | 23.00         | 9.07        | 53.00         |
| 0.100                          | 6.00          | 3.100       | 13.00         | 6.100       | 23.00         | 9.10        | 53.00         |
| 0.133                          | 6.00          | 3.133       | 13.00         | 6.133       | 23.00         | 9.13        | 53.00         |
| 0.167                          | 6.00          | 3.167       | 13.00         | 6.167       | 23.00         | 9.17        | 53.00         |
| 0.200                          | 6.00          | 3.200       | 13.00         | 6.200       | 23.00         | 9.20        | 53.00         |
| 0.233                          | 6.00          | 3.233       | 13.00         | 6.233       | 23.00         | 9.23        | 53.00         |
| 0.267                          | 6.00          | 3.267       | 13.00         | 6.267       | 23.00         | 9.27        | 53.00         |
| 0.300                          | 6.00          | 3.300       | 13.00         | 6.300       | 23.00         | 9.30        | 53.00         |
| 0.333                          | 6.00          | 3.333       | 13.00         | 6.333       | 23.00         | 9.33        | 53.00         |
| 0.367                          | 6.00          | 3.367       | 13.00         | 6.367       | 23.00         | 9.37        | 53.00         |
| 0.400                          | 6.00          | 3.400       | 13.00         | 6.400       | 23.00         | 9.40        | 53.00         |
| 0.433                          | 6.00          | 3.433       | 13.00         | 6.433       | 23.00         | 9.43        | 53.00         |
| 0.467                          | 6.00          | 3.467       | 13.00         | 6.467       | 23.00         | 9.47        | 53.00         |
| 0.500                          | 6.00          | 3.500       | 13.00         | 6.500       | 23.00         | 9.50        | 53.00         |
| 0.533                          | 6.00          | 3.533       | 13.00         | 6.533       | 23.00         | 9.53        | 53.00         |
| 0.567                          | 6.00          | 3.567       | 13.00         | 6.567       | 23.00         | 9.57        | 53.00         |
| 0.600                          | 6.00          | 3.600       | 13.00         | 6.600       | 23.00         | 9.60        | 53.00         |
| 0.633                          | 6.00          | 3.633       | 13.00         | 6.633       | 23.00         | 9.63        | 53.00         |
| 0.667                          | 6.00          | 3.667       | 13.00         | 6.667       | 23.00         | 9.67        | 53.00         |
| 0.700                          | 6.00          | 3.700       | 13.00         | 6.700       | 23.00         | 9.70        | 53.00         |
| 0.733                          | 6.00          | 3.733       | 13.00         | 6.733       | 23.00         | 9.73        | 53.00         |
| 0.767                          | 6.00          | 3.767       | 13.00         | 6.767       | 23.00         | 9.77        | 53.00         |
| 0.800                          | 6.00          | 3.800       | 13.00         | 6.800       | 23.00         | 9.80        | 53.00         |
| 0.833                          | 6.00          | 3.833       | 13.00         | 6.833       | 23.00         | 9.83        | 53.00         |
| 0.867                          | 6.00          | 3.867       | 13.00         | 6.867       | 23.00         | 9.87        | 53.00         |
| 0.900                          | 6.00          | 3.900       | 13.00         | 6.900       | 23.00         | 9.90        | 53.00         |
| 0.933                          | 6.00          | 3.933       | 13.00         | 6.933       | 23.00         | 9.93        | 53.00         |
| 0.967                          | 6.00          | 3.967       | 13.00         | 6.967       | 23.00         | 9.97        | 53.00         |
| 1.000                          | 6.00          | 4.000       | 13.00         | 7.000       | 23.00         | 10.00       | 52.99         |
| 1.033                          | 4.00          | 4.033       | 17.00         | 7.033       | 13.00         | 10.03       | 38.00         |
| 1.067                          | 4.00          | 4.067       | 17.00         | 7.067       | 13.00         | 10.07       | 38.00         |
| 1.100                          | 4.00          | 4.100       | 17.00         | 7.100       | 13.00         | 10.10       | 38.00         |
| 1.133                          | 4.00          | 4.133       | 17.00         | 7.133       | 13.00         | 10.13       | 38.00         |
| 1.167                          | 4.00          | 4.167       | 17.00         | 7.167       | 13.00         | 10.17       | 38.00         |
| 1.200                          | 4.00          | 4.200       | 17.00         | 7.200       | 13.00         | 10.20       | 38.00         |
| 1.233                          | 4.00          | 4.233       | 17.00         | 7.233       | 13.00         | 10.23       | 38.00         |
| 1.267                          | 4.00          | 4.267       | 17.00         | 7.267       | 13.00         | 10.27       | 38.00         |
| 1.300                          | 4.00          | 4.300       | 17.00         | 7.300       | 13.00         | 10.30       | 38.00         |
| 1.333                          | 4.00          | 4.333       | 17.00         | 7.333       | 13.00         | 10.33       | 38.00         |
| 1.367                          | 4.00          | 4.367       | 17.00         | 7.367       | 13.00         | 10.37       | 38.00         |
| 1.400                          | 4.00          | 4.400       | 17.00         | 7.400       | 13.00         | 10.40       | 38.00         |
| 1.433                          | 4.00          | 4.433       | 17.00         | 7.433       | 13.00         | 10.43       | 38.00         |
| 1.467                          | 4.00          | 4.467       | 17.00         | 7.467       | 13.00         | 10.47       | 38.00         |
| 1.500                          | 4.00          | 4.500       | 17.00         | 7.500       | 13.00         | 10.50       | 38.00         |
| 1.533                          | 4.00          | 4.533       | 17.00         | 7.533       | 13.00         | 10.53       | 38.00         |
| 1.567                          | 4.00          | 4.567       | 17.00         | 7.567       | 13.00         | 10.57       | 38.00         |
| 1.600                          | 4.00          | 4.600       | 17.00         | 7.600       | 13.00         | 10.60       | 38.00         |
| 1.633                          | 4.00          | 4.633       | 17.00         | 7.633       | 13.00         | 10.63       | 38.00         |
| 1.667                          | 4.00          | 4.667       | 17.00         | 7.667       | 13.00         | 10.67       | 38.00         |
| 1.700                          | 4.00          | 4.700       | 17.00         | 7.700       | 13.00         | 10.70       | 38.00         |
| 1.733                          | 4.00          | 4.733       | 17.00         | 7.733       | 13.00         | 10.73       | 38.00         |
| 1.767                          | 4.00          | 4.767       | 17.00         | 7.767       | 13.00         | 10.77       | 38.00         |
| 1.800                          | 4.00          | 4.800       | 17.00         | 7.800       | 13.00         | 10.80       | 38.00         |
| 1.833                          | 4.00          | 4.833       | 17.00         | 7.833       | 13.00         | 10.83       | 38.00         |
| 1.867                          | 4.00          | 4.867       | 17.00         | 7.867       | 13.00         | 10.87       | 38.00         |
| 1.900                          | 4.00          | 4.900       | 17.00         | 7.900       | 13.00         | 10.90       | 38.00         |
| 1.933                          | 4.00          | 4.933       | 17.00         | 7.933       | 13.00         | 10.93       | 38.00         |
| 1.967                          | 4.00          | 4.967       | 17.00         | 7.967       | 13.00         | 10.97       | 38.00         |
| 2.000                          | 4.00          | 5.000       | 17.00         | 8.000       | 13.00         | 11.00       | 37.98         |
| 2.033                          | 6.00          | 5.033       | 13.00         | 8.033       | 13.00         | 11.03       | 13.00         |
| 2.067                          | 6.00          | 5.067       | 13.00         | 8.067       | 13.00         | 11.07       | 13.00         |
| 2.100                          | 6.00          | 5.100       | 13.00         | 8.100       | 13.00         | 11.10       | 13.00         |
| 2.133                          | 6.00          | 5.133       | 13.00         | 8.133       | 13.00         | 11.13       | 13.00         |
| 2.167                          | 6.00          | 5.167       | 13.00         | 8.167       | 13.00         | 11.17       | 13.00         |
| 2.200                          | 6.00          | 5.200       | 13.00         | 8.200       | 13.00         | 11.20       | 13.00         |
| 2.233                          | 6.00          | 5.233       | 13.00         | 8.233       | 13.00         | 11.23       | 13.00         |
| 2.267                          | 6.00          | 5.267       | 13.00         | 8.267       | 13.00         | 11.27       | 13.00         |
| 2.300                          | 6.00          | 5.300       | 13.00         | 8.300       | 13.00         | 11.30       | 13.00         |
| 2.333                          | 6.00          | 5.333       | 13.00         | 8.333       | 13.00         | 11.33       | 13.00         |
| 2.367                          | 6.00          | 5.367       | 13.00         | 8.367       | 13.00         | 11.37       | 13.00         |
| 2.400                          | 6.00          | 5.400       | 13.00         | 8.400       | 13.00         | 11.40       | 13.00         |
| 2.433                          | 6.00          | 5.433       | 13.00         | 8.433       | 13.00         | 11.43       | 13.00         |
| 2.467                          | 6.00          | 5.467       | 13.00         | 8.467       | 13.00         | 11.47       | 13.00         |
| 2.500                          | 6.00          | 5.500       | 13.00         | 8.500       | 13.00         | 11.50       | 13.00         |
| 2.533                          | 6.00          | 5.533       | 13.00         | 8.533       | 13.00         | 11.53       | 13.00         |
| 2.567                          | 6.00          | 5.567       | 13.00         | 8.567       | 13.00         | 11.57       | 13.00         |
| 2.600                          | 6.00          | 5.600       | 13.00         | 8.600       | 13.00         | 11.60       | 13.00         |
| 2.633                          | 6.00          | 5.633       | 13.00         | 8.633       | 13.00         | 11.63       | 13.00         |
| 2.667                          | 6.00          | 5.667       | 13.00         | 8.667       | 13.00         | 11.67       | 13.00         |
| 2.700                          | 6.00          | 5.700       | 13.00         | 8.700       | 13.00         | 11.70       | 13.00         |
| 2.733                          | 6.00          | 5.733       | 13.00         | 8.733       | 13.00         | 11.73       | 13.00         |
| 2.767                          | 6.00          | 5.767       | 13.00         | 8.767       | 13.00         | 11.77       | 13.00         |
| 2.800                          | 6.00          | 5.800       | 13.00         | 8.800       | 13.00         | 11.80       | 13.00         |
| 2.833                          | 6.00          | 5.833       | 13.00         | 8.833       | 13.00         | 11.83       | 13.00         |
| 2.867                          | 6.00          | 5.867       | 13.00         | 8.867       | 13.00         | 11.87       | 13.00         |
| 2.900                          | 6.00          | 5.900       | 13.00         | 8.900       | 13.00         | 11.90       | 13.00         |
| 2.933                          | 6.00          | 5.933       | 13.00         | 8.933       | 13.00         | 11.93       | 13.00         |
| 2.967                          | 6.00          | 5.967       | 13.00         | 8.967       | 13.00         | 11.97       | 13.00         |
| 3.000                          | 6.00          | 6.000       | 13.00         | 9.000       | 13.00         | 12.00       | 13.00         |

|       |      |       |       |       |       |       |       |
|-------|------|-------|-------|-------|-------|-------|-------|
| 1.367 | 4.00 | 4.367 | 17.00 | 7.367 | 13.00 | 10.37 | 38.00 |
| 1.400 | 4.00 | 4.400 | 17.00 | 7.400 | 13.00 | 10.40 | 38.00 |
| 1.433 | 4.00 | 4.433 | 17.00 | 7.433 | 13.00 | 10.43 | 38.00 |
| 1.467 | 4.00 | 4.467 | 17.00 | 7.467 | 13.00 | 10.47 | 38.00 |
| 1.500 | 4.00 | 4.500 | 17.00 | 7.500 | 13.00 | 10.50 | 38.00 |
| 1.533 | 4.00 | 4.533 | 17.00 | 7.533 | 13.00 | 10.53 | 38.00 |
| 1.567 | 4.00 | 4.567 | 17.00 | 7.567 | 13.00 | 10.57 | 38.00 |
| 1.600 | 4.00 | 4.600 | 17.00 | 7.600 | 13.00 | 10.60 | 38.00 |
| 1.633 | 4.00 | 4.633 | 17.00 | 7.633 | 13.00 | 10.63 | 38.00 |
| 1.667 | 4.00 | 4.667 | 17.00 | 7.667 | 13.00 | 10.67 | 38.00 |
| 1.700 | 4.00 | 4.700 | 17.00 | 7.700 | 13.00 | 10.70 | 38.00 |
| 1.733 | 4.00 | 4.733 | 17.00 | 7.733 | 13.00 | 10.73 | 38.00 |
| 1.767 | 4.00 | 4.767 | 17.00 | 7.767 | 13.00 | 10.77 | 38.00 |
| 1.800 | 4.00 | 4.800 | 17.00 | 7.800 | 13.00 | 10.80 | 38.00 |
| 1.833 | 4.00 | 4.833 | 17.00 | 7.833 | 13.00 | 10.83 | 38.00 |
| 1.867 | 4.00 | 4.867 | 17.00 | 7.867 | 13.00 | 10.87 | 38.00 |
| 1.900 | 4.00 | 4.900 | 17.00 | 7.900 | 13.00 | 10.90 | 38.00 |
| 1.933 | 4.00 | 4.933 | 17.00 | 7.933 | 13.00 | 10.93 | 38.00 |
| 1.967 | 4.00 | 4.967 | 17.00 | 7.967 | 13.00 | 10.97 | 38.00 |
| 2.000 | 4.00 | 5.000 | 17.00 | 8.000 | 13.00 | 11.00 | 37.98 |
| 2.033 | 6.00 | 5.033 | 13.00 | 8.033 | 13.00 | 11.03 | 13.00 |
| 2.067 | 6.00 | 5.067 | 13.00 | 8.067 | 13.00 | 11.07 | 13.00 |
| 2.100 | 6.00 | 5.100 | 13.00 | 8.100 | 13.00 | 11.10 | 13.00 |
| 2.133 | 6.00 | 5.133 | 13.00 | 8.133 | 13.00 | 11.13 | 13.00 |
| 2.167 | 6.00 | 5.167 | 13.00 | 8.167 | 13.00 | 11.17 | 13.00 |
| 2.200 | 6.00 | 5.200 | 13.00 | 8.200 | 13.00 | 11.20 | 13.00 |
| 2.233 | 6.00 | 5.233 | 13.00 | 8.233 | 13.00 | 11.23 | 13.00 |
| 2.267 | 6.00 | 5.267 | 13.00 | 8.267 | 13.00 | 11.27 | 13.00 |
| 2.300 | 6.00 | 5.300 | 13.00 | 8.300 | 13.00 | 11.30 | 13.00 |
| 2.333 | 6.00 | 5.333 | 13.00 | 8.333 | 13.00 | 11.33 | 13.00 |
| 2.367 | 6.00 | 5.367 | 13.00 | 8.367 | 13.00 | 11.37 | 13.00 |
| 2.400 | 6.00 | 5.400 | 13.00 | 8.400 | 13.00 | 11.40 | 13.00 |
| 2.433 | 6.00 | 5.433 | 13.00 | 8.433 | 13.00 | 11.43 | 13.00 |
| 2.467 | 6.00 | 5.467 | 13.00 | 8.467 | 13.00 | 11.47 | 13.00 |
| 2.500 | 6.00 | 5.500 | 13.00 | 8.500 | 13.00 | 11.50 | 13.00 |
| 2.533 | 6.00 | 5.533 | 13.00 | 8.533 | 13.00 | 11.53 | 13.00 |
| 2.567 | 6.00 | 5.567 | 13.00 | 8.567 | 13.00 | 11.57 | 13.00 |
| 2.600 | 6.00 | 5.600 | 13.00 | 8.600 | 13.00 | 11.60 | 13.00 |
| 2.633 | 6.00 | 5.633 | 13.00 | 8.633 | 13.00 | 11.63 | 13.00 |
| 2.667 | 6.00 | 5.667 | 13.00 | 8.667 | 13.00 | 11.67 | 13.00 |
| 2.700 | 6.00 | 5.700 | 13.00 | 8.700 | 13.00 | 11.70 | 13.00 |
| 2.733 | 6.00 | 5.733 | 13.00 | 8.733 | 13.00 | 11.73 | 13.00 |
| 2.767 | 6.00 | 5.767 | 13.00 | 8.767 | 13.00 | 11.77 | 13.00 |
| 2.800 | 6.00 | 5.800 | 13.00 | 8.800 | 13.00 | 11.80 | 13.00 |
| 2.833 | 6.00 | 5.833 | 13.00 | 8.833 | 13.00 | 11.83 | 13.00 |
| 2.867 | 6.00 | 5.867 | 13.00 | 8.867 | 13.00 | 11.87 | 13.00 |
| 2.900 | 6.00 | 5.900 | 13.00 | 8.900 | 13.00 | 11.90 | 13.00 |
| 2.933 | 6.00 | 5.933 | 13.00 | 8.933 | 13.00 | 11.93 | 13.00 |
| 2.967 | 6.00 | 5.967 | 13.00 | 8.967 | 13.00 | 11.97 | 13.00 |
| 3.000 | 6.00 | 6.000 | 13.00 | 9.000 | 13.01 | 12.00 | 12.98 |

|       |      |       |       |       |       |       |       |
|-------|------|-------|-------|-------|-------|-------|-------|
| 1.800 | 4.00 | 4.800 | 17.00 | 7.800 | 13.00 | 10.80 | 38.00 |
| 1.833 | 4.00 | 4.833 | 17.00 | 7.833 | 13.00 | 10.83 | 38.00 |
| 1.867 | 4.00 | 4.867 | 17.00 | 7.867 | 13.00 | 10.87 | 38.00 |
| 1.900 | 4.00 | 4.900 | 17.00 | 7.900 | 13.00 | 10.90 | 38.00 |
| 1.933 | 4.00 | 4.933 | 17.00 | 7.933 | 13.00 | 10.93 | 38.00 |
| 1.967 | 4.00 | 4.967 | 17.00 | 7.967 | 13.00 | 10.97 | 38.00 |
| 2.000 | 4.00 | 5.000 | 17.00 | 8.000 | 13.00 | 11.00 | 37.98 |
| 2.033 | 6.00 | 5.033 | 13.00 | 8.033 | 13.00 | 11.03 | 13.00 |
| 2.067 | 6.00 | 5.067 | 13.00 | 8.067 | 13.00 | 11.07 | 13.00 |
| 2.100 | 6.00 | 5.100 | 13.00 | 8.100 | 13.00 | 11.10 | 13.00 |
| 2.133 | 6.00 | 5.133 | 13.00 | 8.133 | 13.00 | 11.13 | 13.00 |
| 2.167 | 6.00 | 5.167 | 13.00 | 8.167 | 13.00 | 11.17 | 13.00 |
| 2.200 | 6.00 | 5.200 | 13.00 | 8.200 | 13.00 | 11.20 | 13.00 |
| 2.233 | 6.00 | 5.233 | 13.00 | 8.233 | 13.00 | 11.23 | 13.00 |
| 2.267 | 6.00 | 5.267 | 13.00 | 8.267 | 13.00 | 11.27 | 13.00 |
| 2.300 | 6.00 | 5.300 | 13.00 | 8.300 | 13.00 | 11.30 | 13.00 |
| 2.333 | 6.00 | 5.333 | 13.00 | 8.333 | 13.00 | 11.33 | 13.00 |
| 2.367 | 6.00 | 5.367 | 13.00 | 8.367 | 13.00 | 11.37 | 13.00 |
| 2.400 | 6.00 | 5.400 | 13.00 | 8.400 | 13.00 | 11.40 | 13.00 |
| 2.433 | 6.00 | 5.433 | 13.00 | 8.433 | 13.00 | 11.43 | 13.00 |
| 2.467 | 6.00 | 5.467 | 13.00 | 8.467 | 13.00 | 11.47 | 13.00 |
| 2.500 | 6.00 | 5.500 | 13.00 | 8.500 | 13.00 | 11.50 | 13.00 |
| 2.533 | 6.00 | 5.533 | 13.00 | 8.533 | 13.00 | 11.53 | 13.00 |
| 2.567 | 6.00 | 5.567 | 13.00 | 8.567 | 13.00 | 11.57 | 13.00 |
| 2.600 | 6.00 | 5.600 | 13.00 | 8.600 | 13.00 | 11.60 | 13.00 |
| 2.633 | 6.00 | 5.633 | 13.00 | 8.633 | 13.00 | 11.63 | 13.00 |
| 2.667 | 6.00 | 5.667 | 13.00 | 8.667 | 13.00 | 11.67 | 13.00 |
| 2.700 | 6.00 | 5.700 | 13.00 | 8.700 | 13.00 | 11.70 | 13.00 |
| 2.733 | 6.00 | 5.733 | 13.00 | 8.733 | 13.00 | 11.73 | 13.00 |
| 2.767 | 6.00 | 5.767 | 13.00 | 8.767 | 13.00 | 11.77 | 13.00 |
| 2.800 | 6.00 | 5.800 | 13.00 | 8.800 | 13.00 | 11.80 | 13.00 |
| 2.833 | 6.00 | 5.833 | 13.00 | 8.833 | 13.00 | 11.83 | 13.00 |
| 2.867 | 6.00 | 5.867 | 13.00 | 8.867 | 13.00 | 11.87 | 13.00 |
| 2.900 | 6.00 | 5.900 | 13.00 | 8.900 | 13.00 | 11.90 | 13.00 |
| 2.933 | 6.00 | 5.933 | 13.00 | 8.933 | 13.00 | 11.93 | 13.00 |
| 2.967 | 6.00 | 5.967 | 13.00 | 8.967 | 13.00 | 11.97 | 13.00 |
| 3.000 | 6.00 | 6.000 | 13.00 | 9.000 | 13.01 | 12.00 | 12.98 |

Unit Hyd Qpeak (cms)= 0.731

PEAK FLOW (cms)= 0.415 (i)  
TIME TO PEAK (hrs)= 10.000  
RUNOFF VOLUME (mm)= 185.228  
TOTAL RAINFALL (mm)= 211.999  
RUNOFF COEFFICIENT = 0.874

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

Unit Hyd Qpeak (cms)= 0.162

PEAK FLOW (cms)= 0.124 (i)  
TIME TO PEAK (hrs)= 10.000  
RUNOFF VOLUME (mm)= 192.152  
TOTAL RAINFALL (mm)= 211.999  
RUNOFF COEFFICIENT = 0.906

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |  |      |       |       |        |
|-------------------|--|------|-------|-------|--------|
| ADD HYD ( 0124)   |  | AREA | QPEAK | TPEAK | R.V.   |
| 1 + 2 = 3         |  | (ha) | (cms) | (hrs) | (mm)   |
| ID1= 1 ( 4003):   |  | 2.87 | 0.415 | 10.00 | 185.23 |
| + ID2= 2 ( 4004): |  | 0.85 | 0.124 | 10.00 | 192.15 |
| =====             |  |      |       |       |        |
| ID = 3 ( 0124):   |  | 3.72 | 0.538 | 10.00 | 186.81 |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

|                   |               |      |                      |      |  |
|-------------------|---------------|------|----------------------|------|--|
| CALIB             |               |      |                      |      |  |
| NASHYD ( 4003)    | Area (ha)=    | 2.87 | Curve Number (CN)=   | 92.0 |  |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 6.80 | # of Linear Res.(N)= | 3.00 |  |
|                   | U.H. Tp(hrs)= | 0.15 |                      |      |  |

|                   |               |      |                      |      |  |
|-------------------|---------------|------|----------------------|------|--|
| CALIB             |               |      |                      |      |  |
| NASHYD ( 4001)    | Area (ha)=    | 5.97 | Curve Number (CN)=   | 92.0 |  |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 6.90 | # of Linear Res.(N)= | 3.00 |  |
|                   | U.H. Tp(hrs)= | 0.16 |                      |      |  |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |       |       |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| TIME                           | RAIN  | TIME  | RAIN  | TIME  | RAIN  | TIME  | RAIN  |
| hrs                            | mm/hr | hrs   | mm/hr | hrs   | mm/hr | hrs   | mm/hr |
| 0.033                          | 6.00  | 3.033 | 13.00 | 6.933 | 23.00 | 9.03  | 53.00 |
| 0.067                          | 6.00  | 3.067 | 13.00 | 6.967 | 23.00 | 9.07  | 53.00 |
| 0.100                          | 6.00  | 3.100 | 13.00 | 6.100 | 23.00 | 9.10  | 53.00 |
| 0.133                          | 6.00  | 3.133 | 13.00 | 6.133 | 23.00 | 9.13  | 53.00 |
| 0.167                          | 6.00  | 3.167 | 13.00 | 6.167 | 23.00 | 9.17  | 53.00 |
| 0.200                          | 6.00  | 3.200 | 13.00 | 6.200 | 23.00 | 9.20  | 53.00 |
| 0.233                          | 6.00  | 3.233 | 13.00 | 6.233 | 23.00 | 9.23  | 53.00 |
| 0.267                          | 6.00  | 3.267 | 13.00 | 6.267 | 23.00 | 9.27  | 53.00 |
| 0.300                          | 6.00  | 3.300 | 13.00 | 6.300 | 23.00 | 9.30  | 53.00 |
| 0.333                          | 6.00  | 3.333 | 13.00 | 6.333 | 23.00 | 9.33  | 53.00 |
| 0.367                          | 6.00  | 3.367 | 13.00 | 6.367 | 23.00 | 9.37  | 53.00 |
| 0.400                          | 6.00  | 3.400 | 13.00 | 6.400 | 23.00 | 9.40  | 53.00 |
| 0.433                          | 6.00  | 3.433 | 13.00 | 6.433 | 23.00 | 9.43  | 53.00 |
| 0.467                          | 6.00  | 3.467 | 13.00 | 6.467 | 23.00 | 9.47  | 53.00 |
| 0.500                          | 6.00  | 3.500 | 13.00 | 6.500 | 23.00 | 9.50  | 53.00 |
| 0.533                          | 6.00  | 3.533 | 13.00 | 6.533 | 23.00 | 9.53  | 53.00 |
| 0.567                          | 6.00  | 3.567 | 13.00 | 6.567 | 23.00 | 9.57  | 53.00 |
| 0.600                          | 6.00  | 3.600 | 13.00 | 6.600 | 23.00 | 9.60  | 53.00 |
| 0.633                          | 6.00  | 3.633 | 13.00 | 6.633 | 23.00 | 9.63  | 53.00 |
| 0.667                          | 6.00  | 3.667 | 13.00 | 6.667 | 23.00 | 9.67  | 53.00 |
| 0.700                          | 6.00  | 3.700 | 13.00 | 6.700 | 23.00 | 9.70  | 53.00 |
| 0.733                          | 6.00  | 3.733 | 13.00 | 6.733 | 23.00 | 9.73  | 53.00 |
| 0.767                          | 6.00  | 3.767 | 13.00 | 6.767 | 23.00 | 9.77  | 53.00 |
| 0.800                          | 6.00  | 3.800 | 13.00 | 6.800 | 23.00 | 9.80  | 53.00 |
| 0.833                          | 6.00  | 3.833 | 13.00 | 6.833 | 23.00 | 9.83  | 53.00 |
| 0.867                          | 6.00  | 3.867 | 13.00 | 6.867 | 23.00 | 9.87  | 53.00 |
| 0.900                          | 6.00  | 3.900 | 13.00 | 6.900 | 23.00 | 9.90  | 53.00 |
| 0.933                          | 6.00  | 3.933 | 13.00 | 6.933 | 23.00 | 9.93  | 53.00 |
| 0.967                          | 6.00  | 3.967 | 13.00 | 6.967 | 23.00 | 9.97  | 53.00 |
| 1.000                          | 6.00  | 4.000 | 13.00 | 7.000 | 23.00 | 10.00 | 52.99 |
| 1.033                          | 4.00  | 4.033 | 17.00 | 7.033 | 13.00 | 10.03 | 38.00 |
| 1.067                          | 4.00  | 4.067 | 17.00 | 7.067 | 13.00 | 10.07 | 38.00 |
| 1.100                          | 4.00  | 4.100 | 17.00 | 7.100 | 13.00 | 10.10 | 38.00 |
| 1.133                          | 4.00  | 4.133 | 17.00 | 7.133 | 13.00 | 10.13 | 38.00 |
| 1.167                          | 4.00  | 4.167 | 17.00 | 7.167 | 13.00 | 10.17 | 38.00 |
| 1.200                          | 4.00  | 4.200 | 17.00 | 7.200 | 13.00 | 10.20 | 38.00 |
| 1.233                          | 4.00  | 4.233 | 17.00 | 7.233 | 13.00 | 10.23 | 38.00 |
| 1.267                          | 4.00  | 4.267 | 17.00 | 7.267 | 13.00 | 10.27 | 38.00 |
| 1.300                          | 4.00  | 4.300 | 17.00 | 7.300 | 13.00 | 10.30 | 38.00 |
| 1.333                          | 4.00  | 4.333 | 17.00 | 7.333 | 13.00 | 10.33 | 38.00 |
| 1.367                          | 4.00  | 4.367 | 17.00 | 7.367 | 13.00 | 10.37 | 38.00 |
| 1.400                          | 4.00  | 4.400 | 17.00 | 7.400 | 13.00 | 10.40 | 38.00 |
| 1.433                          | 4.00  | 4.433 | 17.00 | 7.433 | 13.00 | 10.43 | 38.00 |
| 1.467                          | 4.00  | 4.467 | 17.00 | 7.467 | 13.00 | 10.47 | 38.00 |
| 1.500                          | 4.00  | 4.500 | 17.00 | 7.500 | 13.00 | 10.50 | 38.00 |
| 1.533                          | 4.00  | 4.533 | 17.00 | 7.533 | 13.00 | 10.53 | 38.00 |
| 1.567                          | 4.00  | 4.567 | 17.00 | 7.567 | 13.00 | 10.57 | 38.00 |
| 1.600                          | 4.00  | 4.600 | 17.00 | 7.600 | 13.00 | 10.60 | 38.00 |
| 1.633                          | 4.00  | 4.633 | 17.00 | 7.633 | 13.00 | 10.63 | 38.00 |
| 1.667                          | 4.00  | 4.667 | 17.00 | 7.667 | 13.00 | 10.67 | 38.00 |
| 1.700                          | 4.00  | 4.700 | 17.00 | 7.700 | 13.00 | 10.70 | 38.00 |
| 1.733                          | 4.00  | 4.733 | 17.00 | 7.733 | 13.00 | 10.73 | 38.00 |
| 1.767                          | 4.00  | 4.767 | 17.00 | 7.767 | 13.00 | 10.77 | 38.00 |

|       |      |       |       |       |       |       |       |
|-------|------|-------|-------|-------|-------|-------|-------|
| 1.833 | 4.00 | 4.833 | 17.00 | 7.833 | 13.00 | 10.83 | 38.00 |
| 1.867 | 4.00 | 4.867 | 17.00 | 7.867 | 13.00 | 10.87 | 38.00 |
| 1.900 | 4.00 | 4.900 | 17.00 | 7.900 | 13.00 | 10.90 | 38.00 |
| 1.933 | 4.00 | 4.933 | 17.00 | 7.933 | 13.00 | 10.93 | 38.00 |
| 1.967 | 4.00 | 4.967 | 17.00 | 7.967 | 13.00 | 10.97 | 38.00 |
| 2.000 | 4.00 | 5.000 | 17.00 | 8.000 | 13.00 | 11.00 | 37.98 |
| 2.033 | 6.00 | 5.033 | 13.00 | 8.033 | 13.00 | 11.03 | 13.00 |
| 2.067 | 6.00 | 5.067 | 13.00 | 8.067 | 13.00 | 11.07 | 13.00 |
| 2.100 | 6.00 | 5.100 | 13.00 | 8.100 | 13.00 | 11.10 | 13.00 |
| 2.133 | 6.00 | 5.133 | 13.00 | 8.133 | 13.00 | 11.13 | 13.00 |
| 2.167 | 6.00 | 5.167 | 13.00 | 8.167 | 13.00 | 11.17 | 13.00 |
| 2.200 | 6.00 | 5.200 | 13.00 | 8.200 | 13.00 | 11.20 | 13.00 |
| 2.233 | 6.00 | 5.233 | 13.00 | 8.233 | 13.00 | 11.23 | 13.00 |
| 2.267 | 6.00 | 5.267 | 13.00 | 8.267 | 13.00 | 11.27 | 13.00 |
| 2.300 | 6.00 | 5.300 | 13.00 | 8.300 | 13.00 | 11.30 | 13.00 |
| 2.333 | 6.00 | 5.333 | 13.00 | 8.333 | 13.00 | 11.33 | 13.00 |
| 2.367 | 6.00 | 5.367 | 13.00 | 8.367 | 13.00 | 11.37 | 13.00 |
| 2.400 | 6.00 | 5.400 | 13.00 | 8.400 | 13.00 | 11.40 | 13.00 |
| 2.433 | 6.00 | 5.433 | 13.00 | 8.433 | 13.00 | 11.43 | 13.00 |
| 2.467 | 6.00 | 5.467 | 13.00 | 8.467 | 13.00 | 11.47 | 13.00 |
| 2.500 | 6.00 | 5.500 | 13.00 | 8.500 | 13.00 | 11.50 | 13.00 |
| 2.533 | 6.00 | 5.533 | 13.00 | 8.533 | 13.00 | 11.53 | 13.00 |
| 2.567 | 6.00 | 5.567 | 13.00 | 8.567 | 13.00 | 11.57 | 13.00 |
| 2.600 | 6.00 | 5.600 | 13.00 | 8.600 | 13.00 | 11.60 | 13.00 |
| 2.633 | 6.00 | 5.633 | 13.00 | 8.633 | 13.00 | 11.63 | 13.00 |
| 2.667 | 6.00 | 5.667 | 13.00 | 8.667 | 13.00 | 11.67 | 13.00 |
| 2.700 | 6.00 | 5.700 | 13.00 | 8.700 | 13.00 | 11.70 | 13.00 |
| 2.733 | 6.00 | 5.733 | 13.00 | 8.733 | 13.00 | 11.73 | 13.00 |
| 2.767 | 6.00 | 5.767 | 13.00 | 8.767 | 13.00 | 11.77 | 13.00 |
| 2.800 | 6.00 | 5.800 | 13.00 | 8.800 | 13.00 | 11.80 | 13.00 |
| 2.833 | 6.00 | 5.833 | 13.00 | 8.833 | 13.00 | 11.83 | 13.00 |
| 2.867 | 6.00 | 5.867 | 13.00 | 8.867 | 13.00 | 11.87 | 13.00 |
| 2.900 | 6.00 | 5.900 | 13.00 | 8.900 | 13.00 | 11.90 | 13.00 |
| 2.933 | 6.00 | 5.933 | 13.00 | 8.933 | 13.00 | 11.93 | 13.00 |
| 2.967 | 6.00 | 5.967 | 13.00 | 8.967 | 13.00 | 11.97 | 13.00 |
| 3.000 | 6.00 | 6.000 | 13.00 | 9.000 | 13.01 | 12.00 | 12.98 |

Unit Hyd Qpeak (cms)= 1.425

PEAK FLOW (cms)= 0.863 (i)  
TIME TO PEAK (hrs)= 10.000  
RUNOFF VOLUME (mm)= 185.136  
TOTAL RAINFALL (mm)= 211.999  
RUNOFF COEFFICIENT = 0.873

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|                   |               |      |                      |      |
|-------------------|---------------|------|----------------------|------|
| CALIB             |               |      |                      |      |
| NASHYD ( 4002)    | Area (ha)=    | 7.58 | Curve Number (CN)=   | 92.0 |
| ID= 1 DT= 2.0 min | Ia (mm)=      | 6.90 | # of Linear Res.(N)= | 3.00 |
|                   | U.H. Tp(hrs)= | 0.16 |                      |      |

NOTE: RAINFALL WAS TRANSFORMED TO 2.0 MIN. TIME STEP.

| --- TRANSFORMED HYETOGRAPH --- |       |       |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| TIME                           | RAIN  | TIME  | RAIN  | TIME  | RAIN  | TIME  | RAIN  |
| hrs                            | mm/hr | hrs   | mm/hr | hrs   | mm/hr | hrs   | mm/hr |
| 0.933                          | 6.00  | 3.933 | 13.00 | 6.933 | 23.00 | 9.93  | 53.00 |
| 0.967                          | 6.00  | 3.967 | 13.00 | 6.967 | 23.00 | 9.97  | 53.00 |
| 0.100                          | 6.00  | 3.100 | 13.00 | 6.100 | 23.00 | 9.10  | 53.00 |
| 0.133                          | 6.00  | 3.133 | 13.00 | 6.133 | 23.00 | 9.13  | 53.00 |
| 0.167                          | 6.00  | 3.167 | 13.00 | 6.167 | 23.00 | 9.17  | 53.00 |
| 0.200                          | 6.00  | 3.200 | 13.00 | 6.200 | 23.00 | 9.20  | 53.00 |
| 0.233                          | 6.00  | 3.233 | 13.00 | 6.233 | 23.00 | 9.23  | 53.00 |
| 0.267                          | 6.00  | 3.267 | 13.00 | 6.267 | 23.00 | 9.27  | 53.00 |
| 0.300                          | 6.00  | 3.300 | 13.00 | 6.300 | 23.00 | 9.30  | 53.00 |
| 0.333                          | 6.00  | 3.333 | 13.00 | 6.333 | 23.00 | 9.33  | 53.00 |
| 0.367                          | 6.00  | 3.367 | 13.00 | 6.367 | 23.00 | 9.37  | 53.00 |
| 0.400                          | 6.00  | 3.400 | 13.00 | 6.400 | 23.00 | 9.40  | 53.00 |
| 0.433                          | 6.00  | 3.433 | 13.00 | 6.433 | 23.00 | 9.43  | 53.00 |
| 0.467                          | 6.00  | 3.467 | 13.00 | 6.467 | 23.00 | 9.47  | 53.00 |
| 0.500                          | 6.00  | 3.500 | 13.00 | 6.500 | 23.00 | 9.50  | 53.00 |
| 0.533                          | 6.00  | 3.533 | 13.00 | 6.533 | 23.00 | 9.53  | 53.00 |
| 0.567                          | 6.00  | 3.567 | 13.00 | 6.567 | 23.00 | 9.57  | 53.00 |
| 0.600                          | 6.00  | 3.600 | 13.00 | 6.600 | 23.00 | 9.60  | 53.00 |
| 0.633                          | 6.00  | 3.633 | 13.00 | 6.633 | 23.00 | 9.63  | 53.00 |
| 0.667                          | 6.00  | 3.667 | 13.00 | 6.667 | 23.00 | 9.67  | 53.00 |
| 0.700                          | 6.00  | 3.700 | 13.00 | 6.700 | 23.00 | 9.70  | 53.00 |
| 0.733                          | 6.00  | 3.733 | 13.00 | 6.733 | 23.00 | 9.73  | 53.00 |
| 0.767                          | 6.00  | 3.767 | 13.00 | 6.767 | 23.00 | 9.77  | 53.00 |
| 0.800                          | 6.00  | 3.800 | 13.00 | 6.800 | 23.00 | 9.80  | 53.00 |
| 0.833                          | 6.00  | 3.833 | 13.00 | 6.833 | 23.00 | 9.83  | 53.00 |
| 0.867                          | 6.00  | 3.867 | 13.00 | 6.867 | 23.00 | 9.87  | 53.00 |
| 0.900                          | 6.00  | 3.900 | 13.00 | 6.900 | 23.00 | 9.90  | 53.00 |
| 0.933                          | 6.00  | 3.933 | 13.00 | 6.933 | 23.00 | 9.93  | 53.00 |
| 0.967                          | 6.00  | 3.967 | 13.00 | 6.967 | 23.00 | 9.97  | 53.00 |
| 1.000                          | 6.00  | 4.000 | 13.00 | 7.000 | 23.00 | 10.00 | 52.99 |
| 1.033                          | 4.00  | 4.033 | 17.00 | 7.033 | 13.00 | 10.03 | 38.00 |
| 1.067                          | 4.00  | 4.067 | 17.00 | 7.067 | 13.00 | 10.07 | 38.00 |
| 1.100                          | 4.00  | 4.100 | 17.00 | 7.100 | 13.00 | 10.10 | 38.00 |
| 1.133                          | 4.00  | 4.133 | 17.00 | 7.133 | 13.00 | 10.13 | 38.00 |
| 1.167                          | 4.00  | 4.167 | 17.00 | 7.167 | 13.00 | 10.17 | 38.00 |
| 1.200                          | 4.00  | 4.200 | 17.00 | 7.200 | 13.00 | 10.20 | 38.00 |
| 1.233                          | 4.00  | 4.233 | 17.00 | 7.233 | 13.00 | 10.23 | 38.00 |
| 1.267                          | 4.00  | 4.267 | 17.00 | 7.267 | 13.00 | 10.27 | 38.00 |
| 1.300                          | 4.00  | 4.300 | 17.00 | 7.300 | 13.00 | 10.30 | 38.00 |
| 1.333                          | 4.00  | 4.333 | 17.00 | 7.333 | 13.00 | 10.33 | 38.00 |
| 1.367                          | 4.00  | 4.367 | 17.00 | 7.367 | 13.00 | 10.37 | 38.00 |
| 1.400                          | 4.00  | 4.400 | 17.00 | 7.400 | 13.00 | 10.40 | 38.00 |
| 1.433                          | 4.00  | 4.433 | 17.00 | 7.433 | 13.00 | 10.43 | 38.00 |
| 1.467                          | 4.00  | 4.467 | 17.00 | 7.467 | 13.00 | 10.47 | 38.00 |
| 1.500                          | 4.00  | 4.500 | 17.00 | 7.500 | 13.00 | 10.50 | 38.00 |
| 1.533                          | 4.00  | 4.533 | 17.00 | 7.533 | 13.00 | 10.53 | 38.00 |
| 1.567                          | 4.00  | 4.567 | 17.00 | 7.567 | 13.00 | 10.57 | 38.00 |
| 1.600                          | 4.00  | 4.600 | 17.00 | 7.600 | 13.00 | 10.60 | 38.00 |
| 1.633                          | 4.00  | 4.633 | 17.00 | 7.633 | 13.00 | 10.63 | 38.00 |
| 1.667                          | 4.00  | 4.667 | 17.00 | 7.667 | 13.00 | 10.67 | 38.00 |
| 1.700                          | 4.00  | 4.700 | 17.00 | 7.700 | 13.00 | 10.70 | 38.00 |
| 1.733                          | 4.00  | 4.733 | 17.00 | 7.733 | 13.00 | 10.73 | 38.00 |
| 1.767                          | 4.00  | 4.767 | 17.00 | 7.767 | 13.00 | 10.77 | 38.00 |
| 1.800                          | 4.00  | 4.800 | 17.00 | 7.800 | 13.00 | 10.80 | 38.00 |
| 1.833                          | 4.00  | 4.833 | 17.00 | 7.833 | 13.00 | 10.83 | 38.00 |
| 1.867                          | 4.00  | 4.867 | 17.00 | 7.867 | 13.00 | 10.87 | 38.00 |
| 1.900                          | 4.00  | 4.900 | 17.00 | 7.900 | 13.00 | 10.90 | 38.00 |
| 1.933                          | 4.00  | 4.933 | 17.00 | 7.933 | 13.00 | 10.93 | 38.00 |
| 1.967                          | 4.00  | 4.967 | 17.00 | 7.967 | 13.00 | 10.97 | 38.00 |
| 2.000                          | 4.00  | 5.000 | 17.00 | 8.000 | 13.00 | 11.00 | 37.98 |
| 2.033                          | 6.00  | 5.033 | 13.00 | 8.033 | 13.00 | 11.03 | 13.00 |
| 2.067                          | 6.00  | 5.067 | 13.00 | 8.067 | 13.00 | 11.07 | 13.00 |
| 2.100                          | 6.00  | 5.100 | 13.00 | 8.100 | 13.00 | 11.10 | 13.00 |
| 2.133                          | 6.00  | 5.133 | 13.00 | 8.133 | 13.00 | 11.13 | 13.00 |
| 2.167                          | 6.00  | 5.167 | 13.00 | 8.167 | 13.00 | 11.17 | 13.00 |
| 2.200                          | 6.00  | 5.200 | 13.00 | 8.200 | 13.00 | 11.20 | 13.00 |
| 2.233                          | 6.00  | 5.233 | 13.00 | 8.233 | 13.00 | 11.23 | 13.00 |

|       |      |       |       |       |       |       |       |
|-------|------|-------|-------|-------|-------|-------|-------|
| 2.267 | 6.00 | 5.267 | 13.00 | 8.267 | 13.00 | 11.27 | 13.00 |
| 2.300 | 6.00 | 5.300 | 13.00 | 8.300 | 13.00 | 11.30 | 13.00 |
| 2.333 | 6.00 | 5.333 | 13.00 | 8.333 | 13.00 | 11.33 | 13.00 |
| 2.367 | 6.00 | 5.367 | 13.00 | 8.367 | 13.00 | 11.37 | 13.00 |
| 2.400 | 6.00 | 5.400 | 13.00 | 8.400 | 13.00 | 11.40 | 13.00 |
| 2.433 | 6.00 | 5.433 | 13.00 | 8.433 | 13.00 | 11.43 | 13.00 |
| 2.467 | 6.00 | 5.467 | 13.00 | 8.467 | 13.00 | 11.47 | 13.00 |
| 2.500 | 6.00 | 5.500 | 13.00 | 8.500 | 13.00 | 11.50 | 13.00 |
| 2.533 | 6.00 | 5.533 | 13.00 | 8.533 | 13.00 | 11.53 | 13.00 |
| 2.567 | 6.00 | 5.567 | 13.00 | 8.567 | 13.00 | 11.57 | 13.00 |
| 2.600 | 6.00 | 5.600 | 13.00 | 8.600 | 13.00 | 11.60 | 13.00 |
| 2.633 | 6.00 | 5.633 | 13.00 | 8.633 | 13.00 | 11.63 | 13.00 |
| 2.667 | 6.00 | 5.667 | 13.00 | 8.667 | 13.00 | 11.67 | 13.00 |
| 2.700 | 6.00 | 5.700 | 13.00 | 8.700 | 13.00 | 11.70 | 13.00 |
| 2.733 | 6.00 | 5.733 | 13.00 | 8.733 | 13.00 | 11.73 | 13.00 |
| 2.767 | 6.00 | 5.767 | 13.00 | 8.767 | 13.00 | 11.77 | 13.00 |
| 2.800 | 6.00 | 5.800 | 13.00 | 8.800 | 13.00 | 11.80 | 13.00 |
| 2.833 | 6.00 | 5.833 | 13.00 | 8.833 | 13.00 | 11.83 | 13.00 |
| 2.867 | 6.00 | 5.867 | 13.00 | 8.867 | 13.00 | 11.87 | 13.00 |
| 2.900 | 6.00 | 5.900 | 13.00 | 8.900 | 13.00 | 11.90 | 13.00 |
| 2.933 | 6.00 | 5.933 | 13.00 | 8.933 | 13.00 | 11.93 | 13.00 |
| 2.967 | 6.00 | 5.967 | 13.00 | 8.967 | 13.00 | 11.97 | 13.00 |
| 3.000 | 6.00 | 6.000 | 13.00 | 9.000 | 13.01 | 12.00 | 12.98 |

Unit Hyd Qpeak (cms)= 1.809

PEAK FLOW (cms)= 1.095 (i)  
TIME TO PEAK (hrs)= 10.000  
RUNOFF VOLUME (mm)= 185.136  
TOTAL RAINFALL (mm)= 211.999  
RUNOFF COEFFICIENT = 0.873

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD ( 0127)   |           |             |             |           |
|-------------------|-----------|-------------|-------------|-----------|
| 1 + 2 = 3         | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
| ID1= 1 ( 4001):   | 5.97      | 0.863       | 10.00       | 185.14    |
| + ID2= 2 ( 4002): | 7.58      | 1.095       | 10.00       | 185.14    |
| =====             |           |             |             |           |
| ID = 3 ( 0127):   | 13.55     | 1.958       | 10.00       | 185.14    |

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD ( 0126)   |           |             |             |           |
|-------------------|-----------|-------------|-------------|-----------|
| 1 + 2 = 3         | AREA (ha) | QPEAK (cms) | TPEAK (hrs) | R.V. (mm) |
| ID1= 1 ( 0124):   | 3.72      | 0.538       | 10.00       | 186.81    |
| + ID2= 2 ( 0127): | 13.55     | 1.958       | 10.00       | 185.14    |
| =====             |           |             |             |           |
| ID = 3 ( 0126):   | 17.27     | 2.496       | 10.00       | 185.50    |