KERBEL GROUP INC.

WEST HOLLAND LANDING SOUTH RETAIL BLOCK

STORMWATER MANAGEMENT REPORT

March 27, 2025

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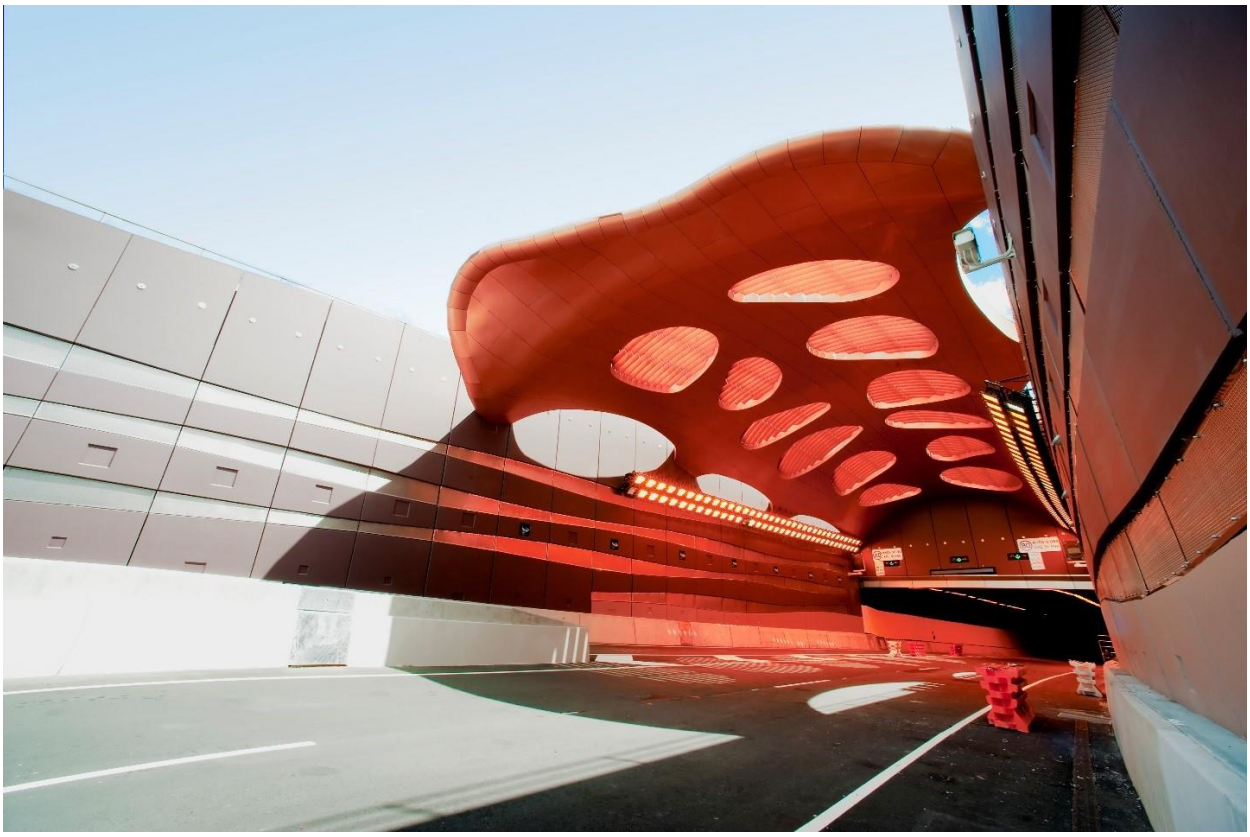

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STORMWATER MANAGEMENT REPORT

KERBEL GROUP INC.

Stormwater Management Report

Project No.: CA0042438.4289
Date: March 27, 2025

WSP

wsp.com

Revision History

FIRST ISSUE

March 27, 2024	Rezoning Application		
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REVISION 2			
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2025-03-27

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A Relevant Documents

A-1 Holland Landing West W03 SWM Report (FEB 2017)

A-2 Environmental Compliance Approval (ECA) (DEC 2015)

A-3 West Holland Landing Residential Subdivision Approved Drawing – Storm Drainage Plan (January 2015)

B Stormwater Management Calculations

C Water Quality Unit Sizing Report

D Modelling Output (Visual OTTHYMO)

1.0 INTRODUCTION

1.1 Scope

WSP has been retained by Kerbel Group Inc. to prepare a Stormwater Management (SWM) Report to support the Zoning By-law Amendment Application for the proposed re-development known as West Holland Landing South Retail Block in the Town of East Gwillimbury. The Site is an undeveloped parcel located within the study area featured in the approved 2010 Master Servicing Plan Update and the 2017 Stormwater Management Report, both prepared by MMM Group Ltd (now WSP). Further, the Site is tributary to Stormwater Management Facility (W03), which is constructed and under operation to service the study area. As such, the current SWM report should be read in conjunction with the 2017 Master Servicing Plan and 2017 Stormwater Management Report.

1.2 Site Location

The Site is located at the southeast corner of Highway 11 and Crimson King Way in the Town of East Gwillimbury. The location of the proposed development and the SWM facility (W03) is presented in **Figure 1.**

1.3 Stormwater Management Plan Objectives

The objectives of the stormwater management plan specifically for the Site are as follows:

- Determine site specific stormwater management requirements to ensure that the proposals are in conformance with the Town and LSRCA guidelines.
- Evaluate various stormwater management practices that meet the requirements of the Town and LSRCA and recommend a preferred preliminary strategy.
- Prepare a Stormwater Management (SWM) report documenting the preliminary strategy along with the technical information necessary for the justification and preliminary sizing of the proposed stormwater management facilities.

CLIENT

KERBEL GROUP INC.

TITLE

WHL RETAIL BLOCK
EAST GWILLIMBURY, ON

SITE LOCATION

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FIGURE 1 - SITE PLAN.dwg Fig 1 C:\Users\CAAS077425\DC\ACCDocs\WSP Canada projects (AMER)\LDME ON 24\Files\CA0042438.4289 WHL Retail Block\SWM\Figures\ Mar 26, 2025 - 2:14pm

1.4 Stormwater Management Design Criteria

This SWM report examines the potential water balance, water quality, and water quantity impacts of the proposed development and summarizes how each will be addressed in accordance with the Town of East Gwillimbury's 2012 Engineering Standards and Design Criteria, 2022 Lake Simcoe and Region Conservation Authority (LSRCA) Technical Guidelines for Stormwater Management Submission (TGSMS), 2018 Lake Simcoe Protection Plan (LSPP), the LSRCA 2023 Phosphorus Offsetting Policy (POP), and the Stormwater Management criteria outlined by the Ministry Environment, Conservation and Parks 2003 SWM Planning and Design Manual (SWMPD).

The Town of East Gwillimbury issued the Engineering Standards and Design Criteria in 2012 to provide direction on the management of rainfall and runoff inside the town's jurisdiction. The LSRCA issued the 2022 Technical Guidelines for Stormwater Management Submission (TGSMS) to provide direction on the management of rainfall and runoff inside the conservation authority's watersheds. The MECP issued their Stormwater Management Planning and Design Manual in 2003 which provides technical and procedural guidance for planning and review of SWM practices.

Based on the Town, LSRCA and MECP design criteria and the conditions stated in the background documents, a summary of the SWM criteria relevant to this project are as follows:

- **Water Balance:** The LSRCA require at a minimum the on-site runoff retention be achieved through infiltration, evapotranspiration, or rainwater reuse. As per sections 4.8-DP and 6.40-DP of LSPP a water budget assessment shall be completed.
- **Water Quality:** Under the Town's Engineering Standards and Design Criteria, MECP's SWMPD Manual and LSRCA's Guidelines, the Site is required to provide an enhanced level of protection, equivalent to an 80% removal rate of total suspended solids (TSS) on an annual loading basis.

  LSRCA requires the completion of phosphorus loading calculations for the property under both pre-development and post-development conditions, and the preparation of a strategy to demonstrate loadings under post-development conditions are minimized. For major developments – developments where >500 m^2 of new impervious area is added - as per Section 3.3.2 of the LSRCA guideline, 80% removal of the annual total phosphorus load is required. Under scenarios where site constraints do not permit the full phosphorus load treatment requirement, the

proponent shall be required to remit phosphorus offsetting payment to the LSRCA as per the conservation authority's compensation calculation terms.

- **Erosion Control:** The LSRCA requires sites whose area is greater than 2.0 ha detain runoff from a 25 mm design storm (4-hour, Chicago distribution), and released over a period of at least 24 hours.
- **Quantity Control:** As per the Town's design criteria, all post-development peak runoff flows shall be controlled to their corresponding event's pre-development rates for the 2-year through to the 100-year storm events.
- **Volume Control:** The LSRCA criteria are consistent with the Town's control criteria. Specific to volume control, linear redevelopment projects on sites without restrictions that create 500 m^2 or greater ha of new and/or fully reconstructed impervious surfaces, shall capture and retain/treat on site, the larger of the following:
    i. The runoff from a 25 mm event from the net increase in impervious area on the site; else if constrained:
    ii. The runoff from a 12.5 mm event from the fully reconstructed impervious surface and newly constructed impervious area;
    iii. Where significant constraints exist on site due to hydrogeological conditions, retain runoff from a 5 mm event from the fully reconstructed impervious surfaces and newly constructed impervious surfaces.

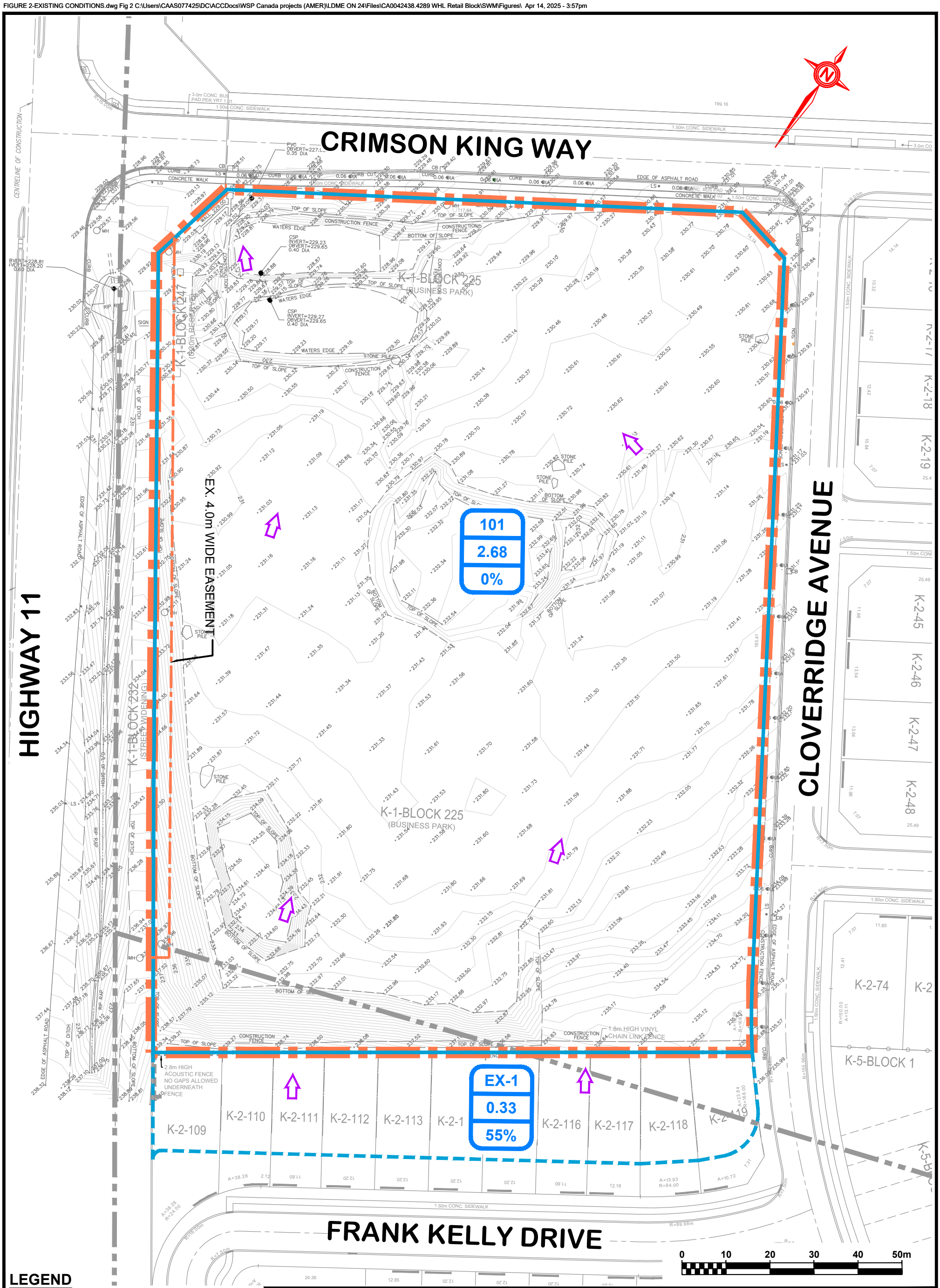
2.0 PRE-DEVELOPMENT CONDITIONS

2.1 General

The Site is 2.68 ha and is currently undeveloped. The runoff coefficient under existing conditions is assumed to be 0.46 with an imperviousness of 0%. The Site topography generally slopes from the south to the north towards a temporary erosion and sediment control pond located at the northwest corner of the Site. The temporary erosion and sediment control pond ultimately discharges to Crimson King Way through an existing ditch-inlet catchbasin and sheet drainage. Additionally, the Site receives flows from a 0.33 ha external residential area south of the Site. The Site borders Crimson King Way to the north, Cloverridge Avenue to the east, the aforementioned residential area to the south, and Highway 11 to the west.

As part of the Master Servicing Plan design in 2017 a SWM Pond Facility, W03 was designed to capture the runoff from the Site and provide the required water quality and erosion control. As outlined in the 2017 Stormwater Management Report, on-site quantity control will be required to control the 100-year post-development peak flow rate to the 5-year post development level based on an assumed imperviousness of 90%.

The approved report and ECA of the constructed pond are included within **Appendix A**. The SWM Pond Facility (W03) has been constructed and is located north of the Site across Crimson King Way. The SWM Pond Facility (W03) is bounded by Crimson King Way to the south and Angorawood Gardens to the east. Please refer to **Figure 2** for details of the existing site conditions.



LEGEND

- PROJECT BOUNDARY
- SUB-CATCHMENT BOUNDARY
- SURFACE FLOW DIRECTION
- 101 — SUB-CATCHMENT ID.
- 2.36 — DRAINAGE AREA (ha)
- 55% — IMPERVIOUS %

CLIENT

KERBEL GROUP INC.

TITLE

WHL RETAIL BLOCK
EAST GWILLIMBURY, ON

EXISTING CONDITIONS

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Checked A.M.B.	Drawn AutoCAD/M.ST.L.
Date MARCH 2025	Proj. No. CA0042438.4289
Scale AS SHOWN	Figure No. 2

2.2 Rainfall Information

According to the Town of East Gwillimbury engineering design guideline, the rainfall intensity for the Site was calculated using the following equation:

$$i = \frac{A}{(T_c + B)^C}$$

Where:

i = rainfall intensity in mm/hour.

T_C = time of concentration in hours.

A, *B,* and *C* = constant parameters (see below).

The parameters (*A*, *B*, and *C*) recommended for use in the Town of East Gwillimbury are defined in the Engineering Design Criteria and are summarized in **Table 2-1**.

Table 2-1 Rainfall Parameters

Return Period (Years)	2	5	10	25	50	100
A	648	930	1,021	1,100	1,438	1,770
B	4	4	3	2	3	4
C	0.784	0.798	0.787	0.776	0.803	0.820

Source: Town of East Gwillimbury – Engineering Standards and Design Criteria – Section G – Storm Drainage & Stormwater Management – Point 32.3

An initial time of concentration, T_c, of 7 minutes (or 0.133 hours) is recommended in the Town's design criteria document for commercial areas. Detailed calculations are provided in **Appendix B**.

2.3 Allowable Flow Rates

As outlined in **Section 2.1**, on-site quantity control will be required to control the 100-year post-development peak flow rate to the 5-year post-development design level. The 5-year post-development design rate specified in the 2017 SWM Report for the Site (Catchment 1012) was determined by simulating the 5-year 4-hour Chicago Storm with a Site area of 2.66 ha, an assumed imperviousness of 0.90 and no flows from external areas draining to the Site. The resulting 5-year post-development flow rate is 731 L/s.

The approved Storm Drainage Plan as part of the West Holland Landing Residential Subdivision Drawing specifies that the 100-year peak flow rate from the Site will be controlled on-site to the 5-year design level of 799 L/s. The drainage area for the Site is 2.96 ha and includes the 0.33 ha external area to the south mentioned in **Section 2.1**. Refer to **Appendix A** for the approved Storm Drainage Plan.

For the purposes of the report, the peak flows originating from the Site and the external area will need to be captured and attenuated to the more conservative 5-year post-development peak flow of 731 L/s as specified in the 2017 SWM Report.

3.0 POST-DEVELOPMENT CONDITIONS

3.1 General

The proposed Site will include six buildings; a single-storey kiosk with a motor vehicle gas bar, a single-storey carwash, a one-storey convenience restaurant with an accompanying drive-through, and three single-storey multi-unit employment use buildings, all with at-grade parking. Pedestrian and vehicular access will be provided to the Site from Highway 11 and Crimson King Way. The Site will be split into three catchments: Catchment 201, 202 and 203. An external area is represented by Catchment 204.

3.1.1 Catchments 201 and 204

Flows from Catchment 201 will be controlled by rooftop controls and rooftop storage and a subsurface SWM chamber, SWM Chamber #1. Flows from Catchment 204 will also be controlled by the aforementioned subsurface SWM Chamber, SWM Chamber #1. Catchment 201 is further split into 4 sub-catchments: sub-catchments 201-1, 201-2, 201-3 and 202-4. Catchment 201-1 includes the majority of the Site's impervious vehicular areas, impervious at-grades area, previous landscaped areas as well as the impervious roof areas of buildings A, B and F. Sub-catchments 202-2, 202-3, and 202-4 includes the impervious roof areas of buildings C, D and E, respectively. Roof runoff from buildings C, D and E will be controlled through rooftop controls and rooftop storage. Runoff from Catchment 201 (including the aforementioned sub-catchments) and Catchment 204 will be captured through the Site's internal storm sewer network and will be directed to the subsurface chamber system, SWM Chamber #1, for further attenuation prior to outletting to the 825 mm storm service connection on Crimson King Way.

Catchment 201 includes the proposed motor vehicle gas bar and car wash. As such, a water quality unit will be installed upstream of SWM Chamber #1 to provide additional water quality treatment. An infiltration chamber, SWM Chamber #2 is also proposed within the Site to meet the water balance and volume control requirements.

3.1.2 Catchments 202 and 203

Catchment 202 and catchment 203 represents the uncontrolled areas that will drain to Crimson King Way and Cloverridge Avenue respectively. These areas mostly include pervious landscaped areas with a small portion of impervious at-grade areas.

A surface cover summary for the proposed Site is provided below in

Table 3-1. Please refer to **Figure 3** for details of the proposed conditions and catchments.

Table 3-1 Proposed Conditions - Catchment Land-use

Catchment	Area (ha)	Impervious Roof Area (ha)	Pervious Landscaped Area (ha)	Impervious Vehicular Area (ha)	Impervious At-Grade Area (ha)	% Impervious
Catchment 201: Controlled Flow - SWM Chamber						
S201-1	1.84	0.06	0.42	1.10	0.26	77%
S201-2 (Rooftop Storage)	0.23	0.23	-	-	-	100%
S201-3 (Rooftop Storage)	0.31	0.31	-	-	-	100%
S201-4 (Rooftop Storage)	0.15	0.15	-	-	-	100%
Catchment 202: Uncontrolled Flow – Crimson King Way						
202	0.10	-	0.09	-	0.01	10%
Catchment 203: Uncontrolled Flow – Cloverridge Avenue						
203	0.05	-	0.04	-	0.01	27%
Catchment 204 (EX-1): Southeast External Area - Controlled Flow - SWM Chamber						
204	0.33	0.18	0.15	-	-	55%
Total	**3.00**	**0.93**	**0.70**	**1.10**	**0.28**	**82%**

FIGURE 3-PROPOSED CONDITIONS.dwg Fig 3 C:\Users\CAAS077425\DC\ACCDocs\WSP Canada projects (AMER)\LDME ON 24\Files\CA0042438.4289 WHL Retail Block\SWM\Figures\ Apr 14, 2025 - 3:58pm

202
0.10
10%

201-2
0.23
100%

203
0.05
27%

201-1
1.84
77%

201-4
0.15
100%

201-3
0.31
100%

204 (EX-1)
0.33
55%

K-1-BLOCK 247
(0.30m RESERVE)

K-1-BLOCK 225
(BUSINESS PARK)

K-1-BLOCK 232
(STREET WIDENING)

EX. 4.0m WIDE EASEMENT

BLDG. 'A' 1 STOREY KIOSK 140.40 m² (1,511 SF)

BLDG. 'B' 1 STOREY CARWASH 154.52 m² (1,663 SF)

BUILDING 'F' 1 STOREY CONVENIENCE RESTAURANT 321.87 m² (3,455 SF) FFE: 232.05

BUILDING 'D' 1 STOREY EMPLOYMENT USES PERMITTED UNDER M1 (142) 3,098.40 m² (33,351 SF)

BUILDING 'E' 1 STOREY EMPLOYMENT USES PERMITTED UNDER M1 (142) 1,483.21 m² (15,965 SF) FFE: 232.65

PERMITTED UNDER M1 (142) 2,287.10 m² (24,618 SF)

UNIT C3 500.40 m² (5,386 SF)

UNIT C4 763.55 m² (8,219 SF) FFE: 231.60

MOTOR VEHICLE GAS BAR

OUTDOOR PLAYGROUND

1.8m HIGH VINYL CHAIN LINK FENCE

2.8m HIGH ACOUSTIC FENCE NO GAPS ALLOWED UNDERNEATH

EXPROPRIATION PLAN 15659 A

CENTRELINE OF CONSTRUCTION

EDGE OF ASPHALT ROAD

TOP OF DITCH

BOTTOM OF SLOPE

RIP RAP

DESIGNATED FIRE ROUTE

1.50m CONC. SIDEWALK

3.0m CONC. BUS PAD PER YRT 1.01

CONCRETE WALK

CURB

K-2-109 K-2-110 K-2-111 K-2-112 K-2-117 K-2-118 K-2-45 K-2-46 K-2-47 K-2-48 K-2-74 K-5-BLOCK 1

LEGEND

- PROJECT BOUNDARY
- CATCHMENT BOUNDARY
- SUB-CATCHMENT BOUNDARY
- SURFACE FLOW DIRECTION
- 101 — SUB-CATCHMENT ID.
- 2.36 — DRAINAGE AREA (ha)
- 55% — IMPERVIOUS %
- IMPERVIOUS ROOF
- VEHICULAR SURFACE
- LANDSCAPE AREAS
- WALKWAY AREAS

0 10 20 30 40 50m

CLIENT
KERBEL GROUP INC.

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PROPOSED CONDITIONS

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Scale AS SHOWN	Figure No. 3

3.2 Volume Control

In accordance with the LSRCA technical guidelines, *"every attempt should be made to match post-development infiltration volumes and recharge quality to pre-development levels on an annual basis."* Additionally, Section 3.2.6 of the LSRCA technical guidelines, requires that new developments shall capture and retain/treat on-site the equivalent of 25 mm of rainfall from all impervious surfaces; if not feasible, then capture 12.5 mm. from impervious areas; if not feasible due to significant hydrogeological constraints, capture 5 mm or more.

Furthermore, Section 4.1 of the LRSCA technical guidelines specifies that for commercial areas, "*infiltration may only be permitted from clean surfaces such as rooftops and landscaped areas*" which further restricts the areas within that the Site that can be infiltrated. As part of the LSRCA guidelines, best efforts will be made be to comply with the requirements.

An infiltration chamber system, SWM Chamber #2, is proposed to provide the required volume control. Buildings A, B and C are in close proximity to the proposed motor vehicle gas bar and car wash and are also much further away from SWM Chamber #2. Therefore, as a result of servicing and grading limitations, only runoff from buildings D, E and F, encompassing an area of 0.49 ha can be infiltrated.

For the proposed development, volume control will be achieved through infiltration. At the current design stage, the feasibility of infiltration practices to provide volume control is assumed. Once hydrogeological and further geotechnical studies are completed during later stages in the design, infiltration rates and drawdown time calculations will be confirmed.

Volume Control – 25 mm

For capturing the corresponding 25 mm volume target, the impervious area (ha) is multiplied by the 25 mm rainfall depth.

Impervious Drainage Area directed to SWM Chamber #2: 0.49 ha
Percentage Impervious: 80%
Target Volume Control Required: 122.6 m^3

A target volume of 122.6 m^3 is proposed for infiltration, based on the facilities being sized to accept runoff volume from a 25 mm depth applied to the tributary impervious areas to the systems. Detailed volume control calculations and infiltration footprint calculations are provided in **Appendix B**.

The proposed infiltration chamber system, SWM Chamber #2, is located within sub-catchment S201-1 fronting Building E. It consists of the ADS StormTech MC-3500 units surrounded by a stone layer on all sides. In total the subsurface chamber system has a footprint of 370.0 m^2 and consists of the following layers: 300 mm stone cover, 1,143 mm tall chamber with embedded stone and the 230 mm stone base. The invert of the outlet of SWM Chamber #2 is 0.56 m above the bottom of the stone base layer. Therefore, the maximum infiltration depth is 0.56 m, and the corresponding maximum storage volume is 136.3 m^3 which exceeds the target volume of 122.6 m^3. The total drawdown time factoring in the varying porosities of the chamber layer and stone base layer is 47.33 hours which is less than the maximum drawdown time of 48 hours.

The drainage areas to the infiltration chamber system comprises 22.8% of the total impervious area on Site. However, based on the LSRCA guidelines, the drainage areas to the infiltration chamber system comprises 37.7% of the total drainage area within the Site which is allowed to be infiltrated. A 122.6 m^3 volume is infiltrated, thus, the effective Site wide infiltration rate is equivalent to a 5.7 mm capture across the 2.13 ha of Site imperviousness.

Therefore, best efforts have been made to allocate the water balance and volume control volume in the post-development conditions. Detailed calculations of the infiltration chambers are shown in **Appendix B.**

3.3 Water Quality Control

As noted in **Section 1.4**, the Site is required to target a long-term removal of 80% TSS on an average annual loading basis. As per MESP and 2017 SWM Report, the stormwater quality control criteria for the Site is satisfied through the SWM wet pond facility W03, which was designed to provide the Enhanced (Level 1) water quality control as defined by the 2003 MECP planning and design manual.

The SWM facility is designed to provide an 80% TSS removal from all contributing tributary areas, which includes the Site. At the time of SWM facility design, land use of the Site was assigned a maximum impervious of 90%. As per **Section 3.1**, the overall imperviousness of the site is approximately 82%; therefore, no additional treatment is required on Site to provide management of TSS.

As noted in **Section 3.1**, the Site will include a motor vehicle gas bar and car wash. As an additional measure, a water quality unit will be installed upstream of the subsurface chamber system (SWM Chamber #1) to ensure the runoff from impervious at-grade surfaces are treated prior to collection into the subsurface chamber system. The recommended water quality unit is the Stormceptor EFO12 unit. As per ETV Canda

testing, the EFO unit is credited for 60% removal of the total TSS loading. The sizing report for the treatment unit is provided in **Appendix C**.

3.4 Erosion Control

As the Site area is greater than 2.0 ha, LSRCA criteria requires *"that the runoff from a 25 mm design storm (4-hour, Chicago distribution) be detained and released over a period of at least 24 hours"*. As this requirement was managed through the provision of wet pond W03, the erosion control criterion is satisfied.

3.5 Phosphorus Budget

The LSRCA requires that "major development" provide a comparison between the estimate pre-development and post-development phosphorus loadings and to ensure that the loadings under the post-development condition is minimized. Additionally, a removal rate of 80% of the annual total phosphorus (TP) load from all the "major development" areas is required.

Phosphorus loadings requirements were not identified in the 2017 Master Servicing Report. As such, the requirement to reduce post-development phosphorus loadings to pre-development levels is not required. However, best efforts will be made to reduce post-development phosphorous loadings to pre-development levels. Additionally, the Site targets to remove 80% of TP.

A pre-development and post-development phosphorus loading calculations were conducted based on phosphorus removal rates outlined in the Lake Simcoe Watershed Phosphorus Budget Tool. Specifically, it was assumed phosphorus removal rates of the infiltration chamber, subsurface SWM chamber and SWM (Wet) Pond W03 to be 60%, 25% and 63%, respectively. The pre-development annual phosphorous loading is estimated to be 0.43 kg/yr. Please refer to **Appendix B** for the detailed calculations.

Treatment train efficiency estimates were completed using the following calculation:

[A + B] – [A x B] = Combined Treatment Efficiency, where

A = Treatment efficiency of first removal pathway (%)

B = Treatment efficiency of second removal pathway (%)

When applying the treatment train approach, a combination of the different treatment methods will be applied for each catchment. It is assumed that the combination of the infiltration chamber (SWM Chamber #2) and subsurface SWM chamber (SWM

Chamber #1) will provide phosphorous removal rates of approximately 70%. Note the total 'SWM Treatment Reduction' values are the weighted averages of the separate catchment areas to each treatment method and the removal efficiencies. The combination of the different on-site treatment methods applied for each catchment along with their combined phosphorous removal efficiency is summarized in **Table 3-2**.

Table 3-2 Phosphorous Removal Summary – On-site quality controls

Catchment	Proposed Treatment Methods	Area (ha)	SWM Treatment Reduction	Annual Phosphorous Loading (kg/year)
Portion of 201-1, 201-2	Subsurface SWM chamber (SWM Chamber #1)	2.07	25%	2.82
Portion of 201-1, 201-3, 201-4	Infiltration Chamber (SWM Chamber #2), Subsurface SWM chamber (SWM Chamber #1)	0.49	70%	0.27
202	-	0.10	-	0.18
203	-	0.05	-	0.10
Total		**2.68**	**32%**	**3.37**

As seen in **Table 3-2**, the treatment train approach with the on-site treatment methods provides an overall site removal efficiency of 32%, which does not meet the requirements of 80% removal of total phosphorous. The corresponding annual post-development phosphorous loading is estimated to be 3.37 kg/yr which is higher than the annual pre-development phosphorous loading of 0.43 kg/yr.

As noted in **Section 3.3**, the downstream, SWM Pond Facility, W03 was designed to provide quality control for the site. Considering the downstream SWM Pond Facility, W03, as a treatment method for the Site allows us to further reduce the post-development annual phosphorous loadings level. The combination of the different on-

site treatment methods and the downstream SWM Pond Facility (W03) applied for each catchment along with their combined phosphorous removal efficiency is summarized in **Table 3-3**.

Table 3-3 Phosphorous Removal Summary – On-site quality controls & Downstream SWM Pond Facility

Catchment	Proposed Treatment Methods	Area (ha)	SWM Treatment Reduction	Annual Phosphorous Loading (kg/year)
Portion of 201-1, 201-2	Subsurface SWM Chamber (SWM Chamber #1) SWM Pond Facility W03	2.07	72%	1.04
Portion of 201-1, 201-3, 201-4	Infiltration Chamber (SWM Chamber #2), Subsurface SWM Chamber (SWM Chamber #1), SWM Pond Facility W03	0.49	89%	0.10
202	SWM Pond Facility W03	0.10	63%	0.07
203	SWM Pond Facility W03	0.05	63%	0.04
Total		**2.68**	**75%**	**1.25**

As seen in **Table 3-3**, the treatment train approach with the on-site treatment methods and downstream SWM Pond Facility (W03) provides an overall site removal efficiency of 75%. The corresponding annual post-development phosphorous loading is 1.25 kg/yr. Although the site does not meet the removal rate of 80% of the annual TP,

best efforts have been made to meet the phosphorous removal requirements in the post-development conditions.

3.6 Water Quantity Control

The post-development flows from the site should be attenuated to the block allowable release rate for all storm events up to and including the 100-year event. The allowable release rate as noted in **Section 2.3** is 731 L/s. The required water quantity control requirements for the site and external area will be achieved through rooftop controls and rooftop storage within buildings C, D and E as well as a subsurface SWM chamber.

Runoff from the external area of Catchment 204 will be captured by a proposed ditch-inlet catchbasin which connects to the site's internal storm sewer network. Roof runoff from buildings C, D, and E will be controlled through rooftop controls and rooftop storage, the controlled flow will outlet to the site's internal storm sewer network through the individual building storm service connections. Roof runoff from buildings A, B, and F (Catchments 201-3, 201-4 and portion of Catchment 201-1) will outlet directly to the site's internal storm sewer network through the individual building storm service connections. Run-off from all at-grades area, the majority of which are contained in Catchment 201-1, will be collected through a series of trench drains, catchbasins and double catchbasins which will be directed by the site's internal storm sewers to the proposed water quality unit prior to outletting to proposed subsurface SWM Chamber #1.

Roof runoff from Building C (Catchment 201-2) will connect directly to the proposed subsurface SWM Chamber #1 through the building's individual storm service connection. Runoff from catchments 201 and 204 will ultimately outlet to proposed subsurface SWM Chamber #1. Runoff from Catchment 202 and 204 will drain uncontrolled to Crimson King Way and Cloverridge Avenue respectively.

A Visual OTTHYMO version 6.1 (VO6) model is used to simulate the hydrologic response of the site using the 24-hour SCS Type II and 4-hour Chicago distribution under post-development conditions and to determine the required detention volume for quantity control.

3.6.1 Catchments 201-2, 201-3, 201-4 (Roof Storage)

Runoff off from the impervious roof areas of buildings C, D and E will be attenuated through control roof drains and temporary roof detention storage to reduce the peak flows entering the internal storm sewer network and minimize the internal storm sewer pipe sizes and subsurface SWM chamber. Rooftop storage will be provided for buildings C, D and E, corresponding to catchments 201-2,201-3 and 201-4 respectively.

80% of the total roof area is considered available for temporary storage. Each drain will discharge at a rate of 1.9 L/s under 0.15m (maximum ponding depth) of head. The number of roof drains is determined through modelling to ensure the maximum ponding depth isn't exceeded during the peak storm event while also not overwhelming the Site's internal storm sewer network. **Table 3-4** summarizes the rooftop storage properties for each of the buildings. As noted in **Section 3.6**, The VO6 model is used to simulate the performance of the rooftop controls. The results for Building C, D, and E are summarized in **Table 3-5**, **Table 3-6** and **Table 3-7** respectively. Calculations are included under **Appendix B** and a copy of the model output is provided in **Appendix D**.

Table 3-4 Roof Detention Summary

Building	Catchment	Total Area (m^2)	Storage Area (m^2)	Maximum Depth (m)	Maximum Storage (m^3)	Number of Drains
Building C	201-2	2,287.1	1,829.7	0.15	91.5	30
Building D	201-3	3,098.4	2,478.7	0.15	123.9	35
Building E	201-4	1,483.2	1,186.6	0.15	59.3	20

Table 3-5 Roof Detention Modelling Results - Building C (ID 101 – VO Model)

Return Period (Years)	Modelled Peak Roof Runoff – Inflow (L/s)	Roof Top Storage Utilized (m^3)	Peak Ponding Depth (m)	Controlled Roof Discharge (L/s)
24-Hour SCS (Type II) Distribution				
2	37.0	29.0	0.05	19.0
5	43.0	34.0	0.06	21.0
10	58.0	46.0	0.07	29.0
25	67.0	53.0	0.08	33.0
50	60.0	60.0	0.09	37.0
100	79.0	63.0	0.10	39.0
4-Hour Chicago Distribution				
2	49.0	30.0	0.05	19.0
5	68.0	40.0	0.07	25.0
10	83.0	49.0	0.08	31.0
25	98.0	57.0	0.10	36.0
50	117.0	68.0	0.11	42.0
100	126.0	74	0.12	46.0

Table 3-6 Roof Detention Modelling Results - Building D (ID 102 – VO Model)

Return Period (Years)	Modelled Peak Roof Runoff – Inflow (L/s)	Roof Top Storage Utilized (m^3)	Peak Ponding Depth (m)	Controlled Roof Discharge (L/s)
24-Hour SCS (Type II) Distribution				
2	51.0	43.0	0.05	23.0
5	59.0	50.0	0.06	27.0
10	79.0	67.0	0.07	35.0
25	91.0	78.0	0.08	41.0
50	102.0	87.0	0.10	46.0
100	108.0	91.0	0.11	49.0
4-Hour Chicago Distribution				
2	67.0	44.0	0.05	23.0
5	93.0	58.0	0.06	31.0
10	113.0	71.0	0.08	38.0
25	134.0	82.0	0.09	44.0
50	160.0	98.0	0.11	52.0
100	171.0	107.0	0.13	57.0

Table 3-7 Rooftop Storage Modelling Results - Building E (ID 103 – VO Model)

Return Period (Years)	Modelled Peak Roof Runoff – Inflow (L/s)	Roof Top Storage Utilized (m^3)	Peak Ponding Depth (m)	Controlled Roof Discharge (L/s)
24-Hour SCS (Type II) Distribution				
2	25.0	19.0	0.05	13.0
5	28.0	22.0	0.06	14.0
10	38.0	30.0	0.07	19.0
25	44.0	35.0	0.08	22.0
50	49.0	39.0	0.09	24.0
100	52.0	41.0	0.10	26.0
4-Hour Chicago Distribution				
2	33.0	20.0	0.05	13.0
5	46.0	27.0	0.07	17.0
10	55.0	32.0	0.08	20.0
25	65.0	38.0	0.10	23.0
50	78.0	45.0	0.11	28.0
100	83.0	48.0	0.12	31.0

As seen in **Table 3-5**, **Table 3-6** and **Table 3-7**, the maximum utilized storage for Buildings C, D and E are 80.9%, 86.3% and 80.9% respectively. The corresponding peak storage depth is for buildings C, D and E are 0.12m, 0.13m and 0.12m respectively. Controlled Flows from building C, D and E will discharge to the subsurface SWM chamber for further attenuation prior to discharging to the storm sewers on Crimson King Way.

3.6.2 Overall Site and External Area – SWM Chamber #1

Further attenuation for the impervious roof areas and attenuation for majority of the remaining site and external area will be provided through the subsurface SWM Chamber, SWM Chamber #1. The proposed subsurface chamber system is located within sub-catchment S201-1 fronting Building C. It consists of the ADS StormTech MC-4500 units surrounded by a stone layer on all sides. In total the subsurface chamber system has a footprint of 615.0 m^2 and consists of the following layers: 300 mm stone cover, 1,524 mm tall chamber with embedded stone and the 230 mm stone base. A 450 mm orifice tube will be installed downstream of SWM Chamber #1 to control the outflow and ensure the peak outflow rate is lower than the allowable release rate. The invert of the orifice tube is set at the top of the stone base layer, the subsurface storage chamber system provides a combined storage of 710.0 m^3.

Since the runoff collected by SWM Chamber #1 encompasses the impervious at-grade areas of the site, it will only provide quantity control and will not be used to meet water balance or volume control requirements, The collected runoff is considered unclean for the purposes of filtration, as such, the subsurface chamber system will be wrapped in an impermeable liner.

As noted in **Section 3.6**, a VO6 model is used to simulate the performance of SWM Chamber #1, the results of which are summarized in **Table 3-8**. Calculations are included under **Appendix B** and a copy of the model output is provided in **Appendix C**.

Table 3-8 Subsurface Chamber System Modelling Results

Return Period (Years)	Inflow (L/s)	Storage Utilized (m^3)	Peak Elevation (m)	Outflow (L/s)
24-Hour SCS (Type II) Distribution				
2	316.0	314.7	0.61	247.0
5	368.0	337.8	0.68	276.0
10	513.0	405.7	0.82	357.0
25	602.0	453.2	0.91	405.0
50	680.0	496.6	1.01	445.0
100	718.0	517.8	1.07	465.0
4-Hour Chicago Distribution				
2	399.0	304.9	0.61	230.0
5	560.0	372.2	0.74	320.0
10	681.0	432.5	0.87	384.0
25	806.0	489.9	1.00	439.0
50	967.0	565.3	1.20	507.0
100	1,047.0	604.9	1.30	546.0

As seen in **Table 3-8**, the maximum utilized storage is 604.9 m^3, corresponding to a maximum depth of 1.30m resulting from the 100-year 4-Hour Chicago Storm. The maximum provided storage is 710.0 m^3.

3.6.3 Uncontrolled Flow – Crimson King Way and Cloverridge Avenue

Flows from Catchments 202 and 203 will drain uncontrolled to Crimson King Way and Cloverridge Avenue respectively. As noted in **Section 3.6**, The VO6 model is used to simulate the performance of these catchments, the results are summarized in **Table 3-9** and **Table 3-10**. A copy of the model output is provided in **Appendix C**.

Table 3-9 Uncontrolled Flow – Crimson King Way (Catchment 202)

Return Period (Years)	Outflow (L/s)
24-Hour SCS (Type II) Distribution	
2	3.00
5	4.00
10	6.00
25	8.00
50	10.0
100	11.0
4-Hour Chicago Distribution	
2	3.00
5	4.00
10	6.00
25	7.00
50	9.00
100	12.0

Table 3-10 Uncontrolled Flow - Cloverridge Avenue (Catchment 203)

Return Period (Years)	Outflow (L/s)
24-Hour SCS (Type II) Distribution	
2	3.00
5	4.00
10	5.00
25	7.00
50	8.00
100	9.00
4-Hour Chicago Distribution	
2	3.00
5	5.00
10	6.00
25	7.00
50	9.00
100	11.0

3.6.4 Total Flows

A summary of the total flows leaving the Site is summarized in Table 3-11.

Table 3-11 Total Site Modelling Results

Return Period (Years)	Outflow - SWM Chamber #1 (L/s)	Outflow - Catchment 202 (L/s)	Outflow - Catchment 203 (L/s)	Total Outflow (L/s)
24-Hour SCS (Type II) Distribution				
2	247.0	3.00	3.00	251.0
5	276.0	4.00	4.00	282.0
10	357.0	6.00	5.00	367.0
25	405.0	8.00	7.00	417.0
50	445.0	10.0	8.00	460.0
100	465.0	11.0	9.00	481.0
4-Hour Chicago Distribution				
2	230.0	3.00	3.00	233.0
5	320.0	4.00	5.00	326.0
10	384.0	6.00	6.00	391.0
25	439.0	7.00	7.00	449.0
50	507.0	9.00	9.00	520.0
100	546.0	12.0	11.0	563.0

As seen in **Table 3-11**, the modelling results demonstrate that the post-development peak outflow rates for storm events up to and including the 100-year event are lower than the allowable release rate. The peak outflow from the site occurs during the 100-year 4 Hour Chicago Storm resulting in a release rate of 563.0 L/s, which is lower the allowable release rate of 731.0 L/s as specified in **Section 2.3**. The maximum required storage volume to control the 100-year post-development runoff is 604.9 m^3, while the total available storage volume in SWM Chamber #1 is 710.0 m^3.

4.0 CONCLUSIONS

A stormwater management plan has been prepared to support the Site Plan Application (SPA) for the proposed development known as West Holland Landing South Retail Block located at the southwest corner of Highway 11 and Crimson King Way in the Town of East Gwillimbury in the Regional Municipality of York. The key points are summarized below:

- **Volume Control:** As a result of grading/ servicing constraints and as per the LSRCA restrictions on the area of the site that is allowed to be infiltrated, the drainage area directed for infiltration is 0.49 ha. The current strategy targets a 25 mm runoff volume for infiltration (122.6 m^3). Through the proposed infiltration chamber, SWM Chamber #2, consisting of the ADS StormTech MC-3500 units, a combined infiltration volume of 136.3 m^3 is provided in 370.0 m^2 of infiltration footprint. The effective site wide infiltration rate is equivalent to a 5.7 mm capture across the 2.13 ha of site imperviousness. The volume of water stored in the sump will be infiltrated, however, confirmation of infiltration feasibility is dependent on hydrogeology and geotechnical investigations to be reviewed in the detailed design stages.
- **Water Quality:** The existing SWM Pond Facility (W03) was designed to provide erosion control for the site. However, a water quality unit is proposed upstream of the subsurface chamber system (SWM Chamber #1) to treat runoff from the majority of the site area, specifically impervious at-grades such as the areas surrounding the motor vehicle gas bar and carwash to prior to collection within SWM Chamber #1. The water quality unit specified is the Stormceptor EFO12 unit which is credited for 60% TSS removal while the existing SWM Pond was designed to provide 80% TSS removal.
- **Erosion Control:** The site is larger than 2 ha and thus the Site is required to retain and release the runoff from a 25 mm design storm over a period of at least 24 hours. The existing SWM Pond Facility (W03) was designed to provide erosion control for the Site based on a 2-hour 25 mm Chicago storm event and the 4-hour 25 mm Chicago storm event.
- **Phosphorus Budget:** Phosphorus loadings requirements were not identified in the Master Servicing Report. As such, the requirement to reduce post-development phosphorus loadings to pre-development levels is not required. However, the proposed on-site treatment methods including the infiltration chamber system (SWM Chamber #2), subsurface chamber system (SWM

Chamber #1) and the existing downstream SWM Pond Facility (W03) will provide a phosphorous removal rate of 75%.

- **Water Quantity:** Rooftop control, rooftop storage as well a subsurface chamber system (SWM Chamber #1) is proposed to meet the water quantity requirements for the Site. The rooftop control and storage are designed such that the rooftop storage does not exceed the maximum depth of 0.15 m. Controlled flows from Buildings C, D and E as well as flows from the remainder of the site are directed to the subsurface chamber system, SWM Chamber #1. The subsurface chamber system consists of ADS StormTech MC-4500 units, it has a footprint of approximately 615.0 m^2 and provides a combined storage of 710.0 m^3. A 450mm orifice tube is installed downstream of SWM Chamber #1 to control the outflow. The maximum utilized storage is 604.9 m^3. The total site release rate is 563.0 L/s which is lower than the allowable release rate of 731 L/s.

As part of the Master Servicing Plan design in 2017 a SWM Pond (Facility W03) was designed to capture the runoff from the Site and meet the required water quality and erosion control requirements. The approved SWM pond is constructed and under operation.

This report has demonstrated that the proposed SWM strategy will address stormwater management related impacts from this project and meet the intent of the Town's and Conservation Authority's criteria and guidelines.

Respectfully submitted,

WSP Canada Inc

APPENDIX

A Relevant Documents

APPENDIX

A-1 Holland Landing West W03 SWM Report (FEB 2017)

APPENDIX

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A-2 Environmental Compliance Approval (ECA) (DEC 2015)

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APPENDIX

B

Stormwater Management Calculations

Stormwater Management Calculations	Project:	West Holland Landing South Retail Block	No.:	CA0042438.4289	
Pre-development and Post-development Areas	By:	A.S.	Date:	2024-12-24	Page: 1
	Checked:	A.M.B.			

Total Pre-Development Area Takeoff				
Land Use	**Area (m2)**	**Runoff C**	**% Impervious**	**%Coverage**
Impervious Roof Area	0	0.94	100%	0%
Pervious Landscaped Area	26786	0.46	0%	89%
Impervious Vehicular Area	0	0.94	100%	0%
Impervious At-Grade Area	0	0.94	100%	0%
Total Development Area	**26786**	**0.46**	**0%**	**89%**
EX-1 External Area	3257	0.73	10%	11%
External Area	**3257**	**0.73**	**10%**	**11%**
Total Development Area + External Area	**30043**			100%

Total Post Development Area Takeoff				
Land Use	**Area (m2)**	**Runoff C**	**% Impervious**	**%Coverage**
Impervious Roof Area	7486	0.94	100%	25%
Pervious Landscaped Area	5450	0.46	0%	18%
Impervious Vehicular Area	10982	0.94	100%	37%
Impervious At-Grade Area	2869	0.94	100%	10%
Total Development Area	**26786**	**0.84**	**80%**	**89%**
EX-1 External Area	3257	0.73	100%	11%
External Area	**3257**	**0.73**	**100%**	**11%**
Total Development Area + External Area	**30043**	**0.83**	**82%**	100%

1) Total 201 Controlled

Land Use	Area (m2)	Runoff C	% Impervious	%Coverage
Impervious Roof Area	7486	0.94	100%	30%
Pervious Landscaped Area	4161	0.46	0%	16%
Impervious Vehicular Area	10982	0.94	100%	43%
Impervious At-Grade Area	2629	0.94	100%	10%
Total Controlled Area	**25257**	**0.86**	**84%**	94%

1a) 201-1(2011) Controlled Underground Chamber

Land Use	Area (m2)	Runoff C	% Impervious	%Coverage
Impervious Roof Area	617	0.94	100%	2%
Pervious Landscaped Area	4161	0.46	0%	16%
Impervious Vehicular Area	10982	0.94	100%	43%
Impervious At-Grade Area	2629	0.94	100%	10%
Total Controlled Area	**18389**	**0.83**	**77%**	73%

2a) 201-2 (2012) Controlled - Roof Storage Building C

Land Use	Area (m2)	Runoff C	% Impervious	%Coverage
Impervious Roof Area	2287	0.94	100%	9%
Pervious Landscaped Area	0	0.46	0%	0%
Impervious Vehicular Area	0	0.94	100%	0%
Impervious At-Grade Area	0	0.94	100%	0%
Total Controlled Area	**2287**	**0.94**	**100%**	9.1%

3a) 201-3 (2013) Controlled - Roof Storage Building D

Land Use	Area (m2)	Runoff C	% Impervious	%Coverage
Impervious Roof Area	3098	0.94	100%	12%
Pervious Landscaped Area	0	0.46	0%	0%
Impervious Vehicular Area	0	0.94	100%	0%
Impervious At-Grade Area	0	0.94	100%	0%
Total Controlled Area	**3098**	**0.94**	**100%**	12%

4a) 201-4 (2014) Controlled - Roof Storage Building E

Land Use	Area (m2)	Runoff C	% Impervious	%Coverage
Impervious Roof Area	1483	0.94	100%	6%
Pervious Landscaped Area	0	0.46	0%	0%
Impervious Vehicular Area	0	0.94	100%	0%
Impervious At-Grade Area	0	0.94	100%	0%
Total Controlled Area	**1483**	**0.94**	**100%**	5.9%

2) 202 Uncontrolled Area - Crimson King Way

Land Use	Area (m2)	Runoff C	% Impervious	%Coverage
Impervious Roof Area	0	0.94	100%	0%
Pervious Landscaped Area	895	0.46	0%	90%
Impervious Vehicular Area	0	0.94	100%	0%
Impervious At-Grade Area	98	0.94	100%	10%
Total Uncontrolled Area	**993**	**0.51**	**10%**	3.7%

3) 203 Uncontrolled Area - Clover Ridge Avenue

Land Use	Area (m2)	Runoff C	% Impervious	%Coverage
Impervious Roof Area	0	0.94	100%	0%
Pervious Landscaped Area	393	0.46	0%	73%
Impervious Vehicular Area	0	0.94	100%	0%
Impervious At-Grade Area	143	0.94	100%	27%
Total Area	**536**	**0.59**	**27%**	2.0%

4) 204 - South East Residential Area (EX-1)

Land Use	Area (m2)	Runoff C	% Impervious	%Coverage
Impervious Roof Area	1791	0.94	100%	55%
Pervious Landscaped Area	1466	0.46	0%	45%
Impervious Vehicular Area	0	0.94	100%	0%
Impervious At-Grade Area	0	0.94	100%	0%
Total Area	**3257**	**0.72**	**55%**	100.0%

IDF Curves

$$i = A(B + T)^{-C}$$

Where: A, B and C are parameters;
i is rainfall intensity (mm/hour); and,
T is time of concentration (minutes).

Return Period (Years)	IDF Parameters			Intensity
	A	B	C	(mm/hr)
2	648	4	0.784	81.8
5	930	4	0.798	113.2
10	1,021	3	0.787	135.6
25	1,100	2	0.776	159.9
50	1,488	3	0.803	189.7
100	1,770	4	0.820	203.3

Note:

- 1:2 year, 1:5 year, 1:25 year and 1:100 year, 4-hour Chicago Distribution design storm taken from Appendix 5 of Town of East Gwillimbury Engineering Standards and Design Criteria (2012).
- 1:2 year, 1:5 year, 1:25 year and 1:100 year, 24-hour SCS (Type II) design storm taken from Appendix 5 of Town of East Gwillimbury Engineering Standards and Design Criteria (2012).

Existing Conditions

Catchment	Surface Cover / Land Use	Area (ha)	Runoff Coef., C	Imperv. (%)	Outlet
1012	Pervious	2.66	0.25	0.0	Crimson King Way Storm Sewer

Proposed Conditions

Hydrologic Parameters

Catchment ID	Area (ha)	TIMP (%)	CN (II) [1]	IA (mm) [2]	Command
1) Total 201 Controlled	2.53	84%	59	5.0	
1a) 201-1(2011) Controlled Underground Chamber	1.84	77%	59	5.0	StandHyd
2a) 201-2 (2012) Controlled - Roof Storage Building C	0.23	100%	59	5.0	StandHyd
3a) 201-3 (2013) Controlled - Roof Storage Building D	0.31	100%	59	5.0	StandHyd
4a) 201-4 (2014) Controlled - Roof Storage Building E	0.15	100%	59	5.0	StandHyd
2) 202 Uncontrolled Area - Crimson King Way	0.10	10%	59	5.0	StandHyd
3) 203 Uncontrolled Area - Clover Ridge Avenue	0.05	27%	59	5.0	StandHyd
4) 204 - South East Residential Area (EX-1)	0.33	55%	59	5.0	StandHyd
Total	**3.00**	**82%**	**59**	**5.0**	**NasHyd**

Note:

[1] CN from Subdivision Stormwater Management Report

[2] IA from from Subdivision Stormwater Management Report

Imperviousness

Imperviousness for each catchment is calculated as per proposed land use. See previous page

Catchment ID	Impervious Roof Area (ha)	Pervious Landscape Area (ha)	Impervious Vehicular Area (ha)	Impervious At-Grade Area (ha)	Total Area (ha)	TIMP (%)
1) Total 201 Controlled	0.75	0.42	1.10	0.26	2.53	84%
1a) 201-1(2011) Controlled Underground Chamber	0.06	0.42	1.10	0.26	1.84	77%
2a) 201-2 (2012) Controlled - Roof Storage Building C	0.23	-	-	-	0.23	100%
3a) 201-3 (2013) Controlled - Roof Storage Building D	0.31	-	-	-	0.31	100%
4a) 201-4 (2014) Controlled - Roof Storage Building E	0.15	-	-	-	0.15	100%
2) 202 Uncontrolled Area - Crimson King Way	0.00	0.09	-	0.01	0.10	10%
3) 203 Uncontrolled Area - Clover Ridge Avenue	0.00	0.04	-	0.01	0.05	27%
4) 204 - South East Residential Area (EX-1)	0.18	0.15	-	-	0.33	55%
Total	**0.93**	**0.69**	**1.10**	**0.29**	**3.00**	**82%**

Equation 4.3 in 2003 MOECP's SWMPDM is used to calculate the appropriate bottom area of an infiltration system.

$$A = \frac{1{,}000\ V}{PnT}$$

Where: A is the bottom area of the infiltration system;
V is the runoff volume to be infiltrated (m^3);
P is the percolation rate of the surrounding native soil (mm/hr);
n is the porosity of the storage media (0.4 for clear stone); and,
T is the retention/drawdown time (hr).

Parameters	Value	Units
Impervious Drainage Area directed to SWM Chamber #2[1]	0.49	ha
25 mm Rainfall Volume	122.6	m^3
Infiltration Voulume Provided, *V*	136.3	m^3
Percolation Rate, *P*[2]	12.0	mm/hr
Maximum Infiltration Depth, d	0.56	m
Bottom Area, *A*	370	m^2

1) SWM Chamber #2 (Infiltration Chamber) - Chamber Layer

Parameters	Value	Units
Impervious Drainage Area directed to SWM Chamber #2[1]	0.49	ha
25 mm Rainfall Volume	122.6	m^3
Volume within Chamber Layer, *V*	100.9	m^3
Percolation Rate, *P*[2]	12.0	mm/hr
Porosity of Chamber Layer, *n*[3]	0.83	
Depth of Chamber Layer, *d*	0.3	m
Bottom Area, *A*	370	m^2
Drawdown Time, T	***27.37***	***hr***

2) SWM Chamber #2 (Infiltration Chamber) - Stone Base Layer

Parameters	Value	Units
Impervious Drainage Area directed to SWM Chamber #2[1]	0.49	ha
25 mm Rainfall Volume	122.6	m^3
Volume within Stone Base Layer, *V*	35.5	m^3
Percolation Rate, *P*[2]	12.0	mm/hr
Porosity of Clear Stone, *n*	0.40	
Depth of Clear Stone, *d*	0.23	m
Bottom Area, *A*	370	m^2
Drawdown Time, T	***19.96***	***hr***

Total Storage Volume Provided	***136.3***	***m^3***
Total Drawdown Time, T	***47.33***	***hr***

Note:

[1] Drainage area includes impervious roof areas of Building D, E & F

[2] Pending Hydrogeotehcnial Report. Assumed Percolation Value

[3] Porosity of chamber layer was back calculated using the stage-storage relationship provided by HydroCAD

Note the impervious drainage area to SWM Chamber #2 (infiltration chamber) is 22.8% of the total impervious area on site.
Note the impervious drainage area to SWM Chamber #2 (infiltration chamber) is 37.7% of the total drainage area allowed to be infiltrated (clean runoff from impervious roof and pervious landscaped areas of commercial areas).

The chambers are sized to infiltrate the 25 mm event from the respective drainage areas.

Therefore, to determine the equivalent site-wide event depth infiltrated for volume control, the 25 mm rainfall, which can be infiltrated by the system is converted to a site-wide depth by dividing the infiltrated volume (121.7 m^3) across the 2.13 ha of imperviousness.

Site-Wide Infiltration - Total Impervious Areas

Parameters	Value	Units
Total Site Impervious Area	21,336.41	m^2
Infiltrated 25 mm Volume across Chambers	122.6	m^3
Site Wide Infiltration Volume	5.7	mm

The site wide depth infiltrated for volume control is 5.7 mm

As per LSRCA Technical Guidelines for Stormwater Management Submissions (April 2022), *"In addition to the above requirement from the Lake Simcoe Protection Plan, a target onsite removal of 80% of the annual Total Phosphorus (TP) load from all major development areas should be achieved"*.

The subject site is located in the East Holland river Watershed within the Lake Simcoe Watershed. Based on Sustainable Development for the Lake Simcoe Watershed Phosphorus Budget Tool, it is assumed that Infiltration Chamber, Jellyfish Unit, Underground SWM Chamber and SWM Wet Pond have phosphorus removal rates of 60%, 77%,25% and 63%, respectively. The OGS removal rate is based on the ISO 14034 ETV Verification Statement mean phosphorus removal estimates for a Jellyfish filter.

The treatment train calculation for the total phosphorus removal is applied for the various catchments within the Site.

Subcatchment Description	Land Cover Classification		Proposed Treatment Method(s)	Area (ha)	P' Export Coef.	SWM Treatment Reduction	Annual 'P' Loading (kg/yr)
Pre-Development							
Pervious area (Transition)	Transition	--		2.68	0.16	--	0.43
Total				***2.68***	***--***	***--***	***0.43***
Post-Development (without water quality controls)							
Catchment 201-1 (Impervious At-Grade Areas, Impervious Roof Areas - Buildings A, B, F)	Commerical (High Density)	--		1.84	1.82	--	3.35
Catchment 202-2, 202-3, 202-4 (Impervious Roof Areas - Buidlings C,D, E)	Commerical (High Density)	--		0.69	1.82	--	1.25
Catchment 202 (Uncontrolled Areas - Crimson King Way)	Commerical (High Density)	--		0.10	1.82	--	0.18
Catchment 203 (Uncontrolled Areas - Cloverridge Avenue)	Commerical (High Density)	--		0.05	1.82	--	0.10
Total				***2.68***	***--***	***--***	***4.88***
Target Removal Efficiency:						***80%***	
Post-Development (with on-site water quality controls)							
Catchment 201-1 (Impervious At-Grade Areas, Impervious Roof Areas - Buildings A, B, F)	Commerical (High Density)	--	Jellyfish Unit + Underground SWM Chamber	1.84	1.82	83%	0.58
Catchment 202-2, 202-3, 202-4 (Impervious Roof Areas - Buidlings C,D, E)	Commerical (High Density)	--	Infiltration Chamber + Jellyfish Unit + Underground SWM Chamber	0.69	1.82	89%	0.14
Catchment 202 (Uncontrolled Areas - Crimson King Way)	Commerical (High Density)	--		0.10	1.82		0.18
Catchment 203 (Uncontrolled Areas - Cloverridge Avenue)	Commerical (High Density)	--		0.05	1.82		0.10
Total				***2.68***	***--***	***80%***	***0.99***
Post-Development (with on-site water quality controls + off-site SWM Wet Pond)							
Catchment 201-1 (Impervious At-Grade Areas, Impervious Roof Areas - Buildings A, B, F)	Commerical (High Density)	--	Jellyfish Unit + Underground SWM Chamber + SWM Wet Pond	1.84	1.82	94%	0.21
Catchment 202-2, 202-3, 202-4 (Impervious Roof Areas - Buidlings C,D, E)	Commerical (High Density)	--	Infiltration Chamber + Jellyfish Unit + Underground SWM Chamber + SWM Wet Pond	0.69	1.82	96%	0.05
Catchment 202 (Uncontrolled Areas - Crimson King Way)	Commerical (High Density)	--	SWM Wet Pond	0.10	1.82	63%	0.07
Catchment 203 (Uncontrolled Areas - Cloverridge Avenue)	Commerical (High Density)	--	SWM Wet Pond	0.05	1.82	63%	0.04
Total				***2.68***	***--***	***92%***	***0.37***

Treatment Train Overall Treatment Train Efficiency	Percentage
Jellyfish Unit Phosphorous Removal Removal Efficiency	77%
SWM Wet Pond Phosphorous Removal Removal Efficiency	63%
Infiltration Trench Phosphorous Removal Efficiency	60%
Underground SWM Chamber Phosphorous Removal Efficiency	25%
Jellyfish Unit + Underground SWM Chamber	83%
Infiltration Chamber + Jellyfish Unit	85%
Infiltration Chamber + Jellyfish Unit +Underground SWM Chamber	89%
Underground SWM Chamber + SWM Wet Pond	72%
Jellyfish Unit +Underground SWM Chamber + SWM Wet Pond	94%
Infiltration Chamber + Jellyfish Unit +Underground SWM Chamber + SWM Wet Pond	96%

Equation for Treatment Train P = A+B - (AxB)

Where:
P = Combined Treatment Efficiency (%)
A = Treatment Efficiency of First Removal Pathway
B = Treatment Efficiency of Second Removal Pathway

Preliminary design of rooftop storage and roof drains are outlined below:

Zurn Roof Drains

Model:	Z105	
Flow Rate:	5	gal / min / 1" of head
	0.32	L/s/0.025 m of head

Buidling C

Roof Area:	0.23	ha
80% of Roof Area	0.18	ha
Ponding Depth:	0.15	m
Available Storage Volume:	91	m^3
Number of drains:	30	
Max Drain Flow Rate:	1.9	L/s
Max Roof Discharge Rate:	57	L/s

*Assumes 80% roof available for detention

**Using equation for pyramidical volume: 1/3 x b x h

Where: *b* = 80% Roof Area

h = Max Ponding Depth

***Maximum controlled drain outflow

Buidling D

Roof Area:	0.31	ha
80% of Roof Area	0.25	ha
Ponding Depth:	0.15	m
Available Storage Volume:	124	m^3
Number of drains:	35	
Max Drain Flow Rate:	1.9	L/s
Max Roof Discharge Rate:	66	L/s

*Assumes 80% roof available for detention

**Using equation for pyramidical volume: 1/3 x b x h

Where: *b* = 80% Roof Area

h = Max Ponding Depth

***Maximum controlled drain outflow

Buidling E

Roof Area:	0.15	ha
80% of Roof Area	0.12	ha
Ponding Depth:	0.15	m
Available Storage Volume:	59	m^3
Number of drains:	20	
Max Drain Flow Rate:	1.9	L/s
Max Roof Discharge Rate:	38	L/s

*Assumes 80% roof available for detention

**Using equation for pyramidical volume: 1/3 x b x h

Where: *b* = 80% Roof Area

h = Max Ponding Depth

***Maximum controlled drain outflow

Outlet Design

A 450 mm orifice tube is proposed to control flow rate from SWM Chamber #1

Orifice Discharge Equation is used to calculate the release rate from the orifice tube:

$$Q = CA\sqrt{2gh}$$

Where,	Q = Orifice Flow Rate (m^3/s)	0.713	m^3/s
	C = Flow Coefficient for Orifice	0.80	
	d = Diameter of Orifice (mm)	450	mm
	A = Cross-section Area of Orifice (m^2)	0.159	m^2
	g = Gravity Acceleration (m/s^2)	9.81	m/s^2
	h = Water Head above Centerline of Orifice (m)	1.599	m

Head (m)	Discharge (m^3/s)
0.00	0.000
0.10	0.178
0.20	0.252
0.30	0.309
0.40	0.356
0.50	0.399
0.60	0.437
0.70	0.472
0.80	0.504
0.90	0.535
1.00	0.564
1.10	0.591
1.20	0.617
1.30	0.643
1.40	0.667
1.50	0.690
1.60	0.713

APPENDIX

C

Water Quality Unit Sizing Report

Stormceptor®

Rinker MATERIALS™

Stormceptor® EF Sizing Report

Imbrium® Systems
ESTIMATED NET ANNUAL SEDIMENT (TSS) LOAD REDUCTION

12/13/2024

Province:	Ontario
City:	East Gwillimbury
Nearest Rainfall Station:	BARRIE-ORO
Climate Station Id:	6117700
Years of Rainfall Data:	14

Site Name:	

Drainage Area (ha):	2.85
% Imperviousness:	82.00

Runoff Coefficient 'c': 0.79

Particle Size Distribution:	CA ETV
Target TSS Removal (%):	60.0

Required Water Quality Runoff Volume Capture (%):	90.00
Estimated Water Quality Flow Rate (L/s):	73.56
Oil / Fuel Spill Risk Site?	Yes
Upstream Flow Control?	No
Peak Conveyance (maximum) Flow Rate (L/s):	
Influent TSS Concentration (mg/L):	200
Estimated Average Annual Sediment Load (kg/yr):	1792
Estimated Average Annual Sediment Volume (L/yr):	1457

Project Name:	WHL South Retail Block
Project Number:	WHL South Retail Block
Designer Name:	Abi Sri
Designer Company:	WSP
Designer Email:	Abilash.Sriranganathan@wsp.com
Designer Phone:	128-998-2488
EOR Name:	
EOR Company:	
EOR Email:	
EOR Phone:	

Net Annual Sediment (TSS) Load Reduction Sizing Summary

Stormceptor Model	TSS Removal Provided (%)
EFO4	36
EFO6	46
EFO8	53
EFO10	57
EFO12	60

Recommended Stormceptor EFO Model: EFO12

Estimated Net Annual Sediment (TSS) Load Reduction (%): 60

Water Quality Runoff Volume Capture (%): > 90

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THIRD-PARTY TESTING AND VERIFICATION

►**Stormceptor® EF and Stormceptor® EFO** are the latest evolutions in the Stormceptor® oil-grit separator (OGS) technology series, and are designed to remove a wide variety of pollutants from stormwater and snowmelt runoff. These technologies have been third-party tested in accordance with the Canadian ETV **Procedure for Laboratory Testing of Oil-Grit Separators** and performance has been third-party verified in accordance with the **ISO 14034 Environmental Technology Verification (ETV)** protocol.

PERFORMANCE

►**Stormceptor® EF and EFO** remove stormwater pollutants through gravity separation and floatation, and feature a patent-pending design that generates positive removal of total suspended solids (TSS) throughout each storm event, including high-intensity storms. Captured pollutants include sediment, free oils, and sediment-bound pollutants such as nutrients, heavy metals, and petroleum hydrocarbons. Stormceptor is sized to remove a high level of TSS from the frequent rainfall events that contribute the vast majority of annual runoff volume and pollutant load. The technology incorporates an internal bypass to convey excessive stormwater flows from high-intensity storms through the device without resuspension and washout (scour) of previously captured pollutants. Proper routine maintenance ensures high pollutant removal performance and protection of downstream waterwavs.

PARTICLE SIZE DISTRIBUTION (PSD)

►The **Canadian ETV PSD** shown in the table below was used, or in part, for this sizing. This is the identical PSD that is referenced in the Canadian ETV ***Procedure for Laboratory Testing of Oil-Grit Separators*** for both sediment removal testing and scour testing. The Canadian ETV PSD contains a wide range of particle sizes in the sand and silt fractions, and is considered reasonably representative of the particle size fractions found in typical urban stormwater runoff.

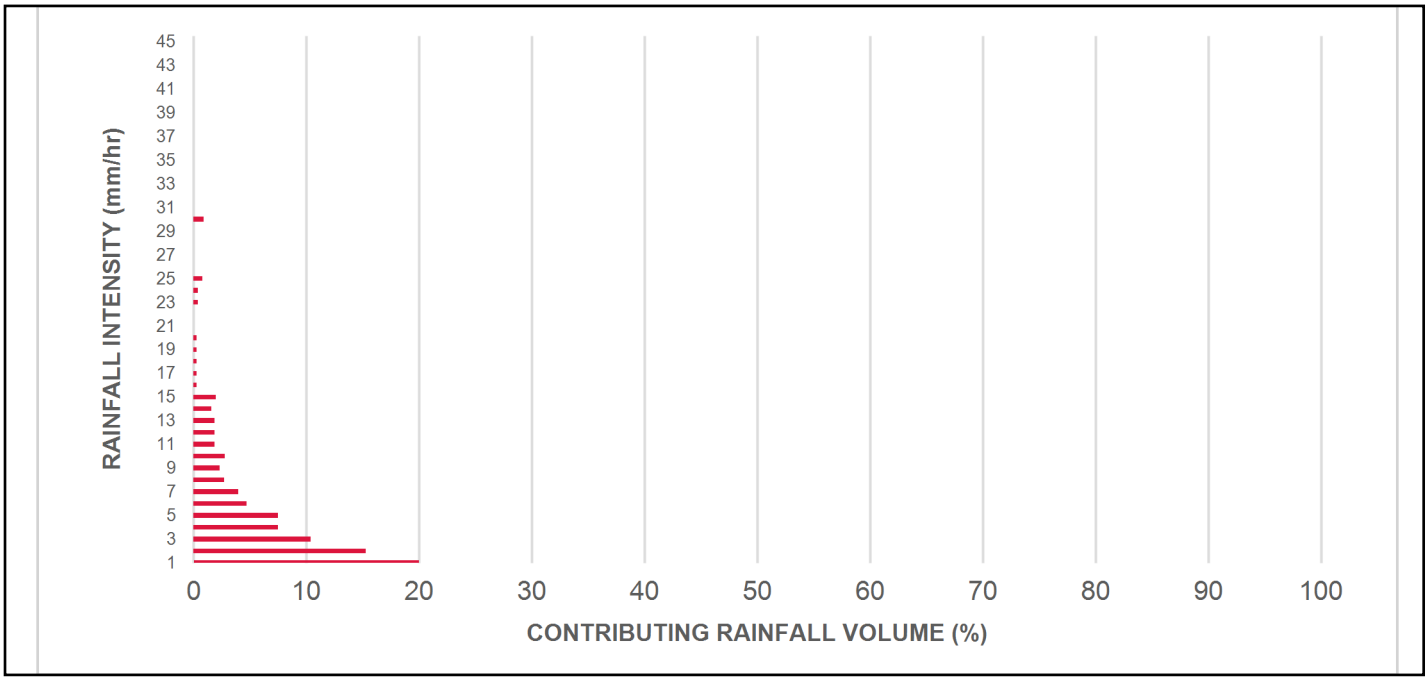
Particle Size (µm)	Percent Less Than	Particle Size Fraction (µm)	Percent
1000	100	500-1000	5
500	95	250-500	5
250	90	150-250	15
150	75	100-150	15
100	60	75-100	10
75	50	50-75	5
50	45	20-50	10
20	35	8-20	15
8	20	5-8	10
5	10	2-5	5
2	5	<2	5

Stormceptor® EF Sizing Report

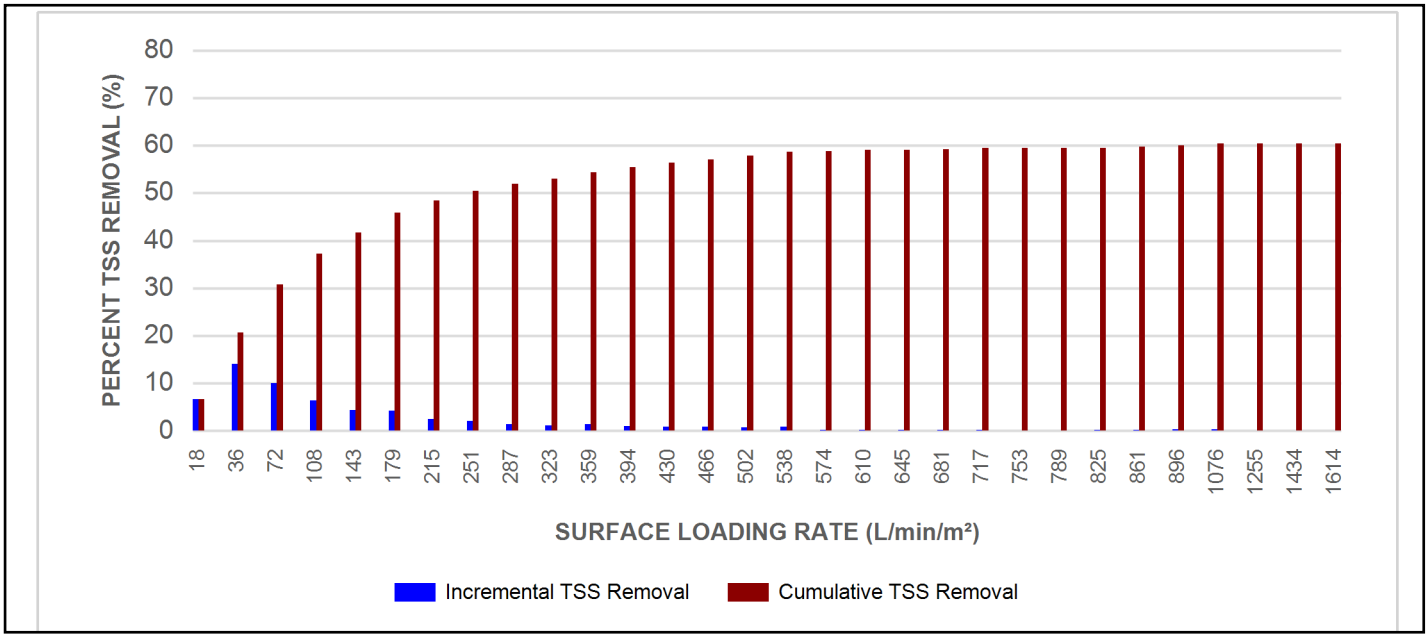
Rainfall Intensity (mm / hr)	Percent Rainfall Volume (%)	Cumulative Rainfall Volume (%)	Flow Rate (L/s)	Flow Rate (L/min)	Surface Loading Rate (L/min/m²)	Removal Efficiency (%)	Incremental Removal (%)	Cumulative Removal (%)
0.50	9.4	9.4	3.14	188.0	18.0	70	6.6	6.6
1.00	20.0	29.4	6.28	377.0	36.0	70	14.1	20.7
2.00	15.3	44.7	12.55	753.0	72.0	66	10.1	30.8
3.00	10.4	55.1	18.83	1130.0	108.0	62	6.5	37.2
4.00	7.5	62.6	25.10	1506.0	143.0	59	4.4	41.7
5.00	7.5	70.1	31.38	1883.0	179.0	56	4.2	45.8
6.00	4.7	74.9	37.65	2259.0	215.0	54	2.5	48.4
7.00	4.0	78.8	43.93	2636.0	251.0	53	2.1	50.5
8.00	2.7	81.6	50.20	3012.0	287.0	52	1.4	51.9
9.00	2.3	83.9	56.48	3389.0	323.0	50	1.2	53.0
10.00	2.8	86.6	62.75	3765.0	359.0	50	1.4	54.4
11.00	1.9	88.6	69.03	4142.0	394.0	48	0.9	55.4
12.00	1.9	90.5	75.30	4518.0	430.0	47	0.9	56.3
13.00	1.9	92.4	81.58	4895.0	466.0	46	0.9	57.1
14.00	1.6	94.0	87.85	5271.0	502.0	45	0.7	57.9
15.00	2.0	96.0	94.13	5648.0	538.0	44	0.9	58.7
16.00	0.3	96.3	100.40	6024.0	574.0	43	0.1	58.8
17.00	0.3	96.6	106.68	6401.0	610.0	42	0.1	59.0
18.00	0.3	96.9	112.95	6777.0	645.0	42	0.1	59.1
19.00	0.3	97.2	119.23	7154.0	681.0	42	0.1	59.2
20.00	0.3	97.5	125.50	7530.0	717.0	41	0.1	59.4
21.00	0.0	97.5	131.78	7907.0	753.0	41	0.0	59.4
22.00	0.0	97.5	138.05	8283.0	789.0	41	0.0	59.4
23.00	0.4	97.9	144.33	8660.0	825.0	41	0.2	59.5
24.00	0.4	98.3	150.60	9036.0	861.0	41	0.2	59.7
25.00	0.8	99.1	156.88	9413.0	896.0	41	0.3	60.0
30.00	0.9	100.0	188.25	11295.0	1076.0	39	0.4	60.4
35.00	0.0	100.0	219.63	13178.0	1255.0	36	0.0	60.4
40.00	0.0	100.0	251.00	15060.0	1434.0	33	0.0	60.4
45.00	0.0	100.0	282.38	16943.0	1614.0	30	0.0	60.4
Estimated Net Annual Sediment (TSS) Load Reduction =								**60 %**

Climate Station ID: 6117700 *Years of Rainfall Data*: 14

RAINFALL DATA FROM BARRIE-ORO RAINFALL STATION



INCREMENTAL AND CUMULATIVE TSS REMOVAL FOR THE RECOMMENDED STORMCEPTOR® MODEL



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Maximum Pipe Diameter / Peak Conveyance

Stormceptor EF / EFO	Model Diameter		Min Angle Inlet / Outlet Pipes	Max Inlet Pipe Diameter		Max Outlet Pipe Diameter		Peak Conveyance Flow Rate	
	(m)	(ft)		(mm)	(in)	(mm)	(in)	(L/s)	(cfs)
EF4 / EFO4	1.2	4	90	609	24	609	24	425	15
EF6 / EFO6	1.8	6	90	914	36	914	36	990	35
EF8 / EFO8	2.4	8	90	1219	48	1219	48	1700	60
EF10 / EFO10	3.0	10	90	1828	72	1828	72	2830	100
EF12 / EFO12	3.6	12	90	1828	72	1828	72	2830	100

SCOUR PREVENTION AND ONLINE CONFIGURATION

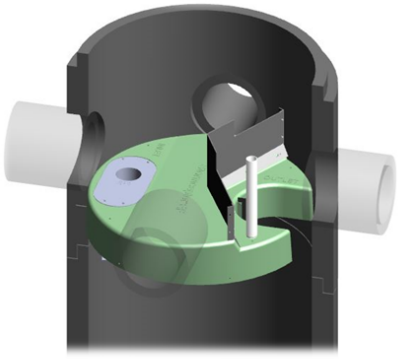
►**Stormceptor® EF and EFO** feature an internal bypass and superior scour prevention technology that have been demonstrated in third-party testing according to the scour testing provisions of the Canadian ETV **Procedure for Laboratory Testing of Oil-Grit Separators**, and the exceptional scour test performance has been third-party verified in accordance with the ISO 14034 ETV protocol. As a result, Stormceptor EF and EFO are approved for online installation, eliminating the need for costly additional bypass structures, piping, and installation expense.

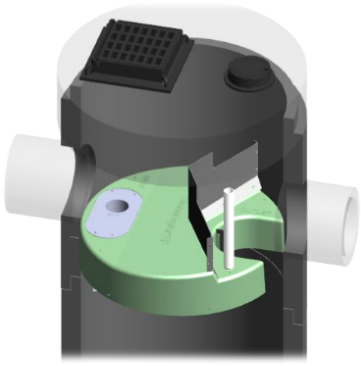
DESIGN FLEXIBILITY

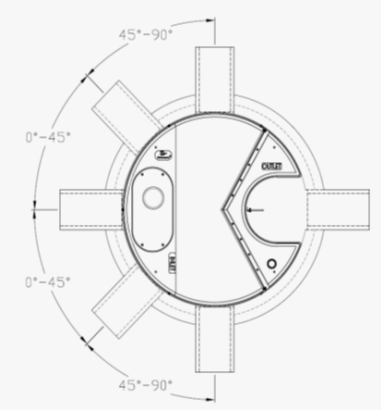
►**Stormceptor® EF** and **EFO** offers design flexibility in one simplified platform, accepting stormwater flow from a single inlet pipe or multiple inlet pipes, and/or surface runoff through an inlet grate. The device can also serve as a junction structure, accommodate a 90-degree inlet-to-outlet bend angle, and can be modified to ensure performance in submerged conditions.

OIL CAPTURE AND RETENTION

►While Stormceptor® EF will capture and retain oil from dry weather spills and low intensity runoff, **Stormceptor® EFO** has demonstrated superior oil capture and greater than 99% oil retention in third-party testing according to the light liquid re-entrainment testing provisions of the Canadian ETV **Procedure for Laboratory Testing of Oil-Grit Separators**. Stormceptor EFO is recommended for sites where oil capture and retention is a requirement.







INLET-TO-OUTLET DROP

Elevation differential between inlet and outlet pipe inverts is dictated by the angle at which the inlet pipe(s) enters the unit.
0° - 45° : The inlet pipe is 1-inch (25mm) higher than the outlet pipe.
45° - 90° : The inlet pipe is 2-inches (50mm) higher than the outlet pipe.

HEAD LOSS

The head loss through Stormceptor EF is similar to that of a 60-degree bend structure. The applicable K value for calculating minor losses through the unit is 1.1. For submerged conditions the applicable K value is 3.0.

Pollutant Capacity

Stormceptor EF / EFO	Model Diameter		Depth (Outlet Pipe Invert to Sump Floor)		Oil Volume		Recommended Sediment Maintenance Depth *		Maximum Sediment Volume *		Maximum Sediment Mass **	
	(m)	(ft)	(m)	(ft)	(L)	(Gal)	(mm)	(in)	(L)	(ft^3)	(kg)	(lb)
EF4 / EFO4	1.2	4	1.52	5.0	265	70	203	8	1190	42	1904	5250
EF6 / EFO6	1.8	6	1.93	6.3	610	160	305	12	3470	123	5552	15375
EF8 / EFO8	2.4	8	2.59	8.5	1070	280	610	24	8780	310	14048	38750
EF10 / EFO10	3.0	10	3.25	10.7	1670	440	610	24	17790	628	28464	78500
EF12 / EFO12	3.6	12	3.89	12.8	2475	655	610	24	31220	1103	49952	137875

*Increased sump depth may be added to increase sediment storage capacity
** Average density of wet packed sediment in sump = 1.6 kg/L (100 lb/ft^3)

Feature	Benefit	Feature Appeals To
Patent-pending enhanced flow treatment and scour prevention technology	Superior, verified third-party performance	Regulator, Specifying & Design Engineer
Third-party verified light liquid capture and retention for EFO version	Proven performance for fuel/oil hotspot locations	Regulator, Specifying & Design Engineer, Site Owner
Functions as bend, junction or inlet structure	Design flexibility	Specifying & Design Engineer
Minimal drop between inlet and outlet	Site installation ease	Contractor
Large diameter outlet riser for inspection and maintenance	Easy maintenance access from grade	Maintenance Contractor & Site Owner

STANDARD STORMCEPTOR EF/EFO DRAWINGS

For standard details, please visit http://www.imbriumsystems.com/stormwater-treatment-solutions/stormceptor-ef

STANDARD STORMCEPTOR EF/EFO SPECIFICATION

For specifications, please visit http://www.imbriumsystems.com/stormwater-treatment-solutions/stormceptor-ef

Table of TSS Removal vs Surface Loading Rate Based on Third-Party Test Results
Stormceptor® EFO

SLR (L/min/m²)	TSS % REMOVAL	SLR (L/min/m²)	TSS % REMOVAL	SLR (L/min/m²)	TSS % REMOVAL	SLR (L/min/m²)	TSS % REMOVAL
1	70	660	42	1320	35	1980	24
30	70	690	42	1350	35	2010	24
60	67	720	41	1380	34	2040	23
90	63	750	41	1410	34	2070	23
120	61	780	41	1440	33	2100	23
150	58	810	41	1470	32	2130	22
180	56	840	41	1500	32	2160	22
210	54	870	41	1530	31	2190	22
240	53	900	41	1560	31	2220	21
270	52	930	40	1590	30	2250	21
300	51	960	40	1620	29	2280	21
330	50	990	40	1650	29	2310	21
360	49	1020	40	1680	28	2340	20
390	48	1050	39	1710	28	2370	20
420	47	1080	39	1740	27	2400	20
450	47	1110	38	1770	27	2430	20
480	46	1140	38	1800	26	2460	19
510	45	1170	37	1830	26	2490	19
540	44	1200	37	1860	26	2520	19
570	43	1230	37	1890	25	2550	19
600	42	1260	36	1920	25	2580	18
630	42	1290	36	1950	24	2600	26

STANDARD PERFORMANCE SPECIFICATION FOR "OIL GRIT SEPARATOR" (OGS) STORMWATER QUALITY TREATMENT DEVICE

PART 1 – GENERAL

1.1 WORK INCLUDED

This section specifies requirements for selecting, sizing, and designing an underground Oil Grit Separator (OGS) device for stormwater quality treatment, with third-party testing results and a Statement of Verification in accordance with ISO 14034 Environmental Management – Environmental Technology Verification (ETV).

1.2 REFERENCE STANDARDS & PROCEDURES

ISO 14034:2016 Environmental management – Environmental technology verification (ETV)

Canadian Environmental Technology Verification (ETV) Program's **Procedure for Laboratory Testing of Oil-Grit** S**eparators**

1.3 SUBMITTALS

1.3.1 All submittals, including sizing reports & shop drawings, shall be submitted upon request with each order to the contractor then forwarded to the Engineer of Record for review and acceptance. Shop drawings shall detail all OGS components, elevations, and sequence of construction.

1.3.2 Alternative devices shall have features identical to or greater than the specified device, including: treatment chamber diameter, treatment chamber wet volume, sediment storage volume, and oil storage volume.

1.3.3 Unless directed otherwise by the Engineer of Record, OGS stormwater quality treatment product substitutions or alternatives submitted within ten days prior to project bid shall not be accepted. All alternatives or substitutions submitted shall be signed and sealed by a local registered Professional Engineer, based on the exact same criteria detailed in Section 3, in entirety, subject to review and approval by the Engineer of Record.

PART 2 – PRODUCTS

2.1 OGS POLLUTANT STORAGE

The OGS device shall include a sump for sediment storage, and a protected volume for the capture and storage of petroleum hydrocarbons and buoyant gross pollutants. The minimum sediment & petroleum hydrocarbon storage capacity shall be as follows:

2.1.1	4 ft (1219 mm) Diameter OGS Units:	1.19 m^3 sediment / 265 L oil
	6 ft (1829 mm) Diameter OGS Units:	3.48 m^3 sediment / 609 L oil
	8 ft (2438 mm) Diameter OGS Units:	8.78 m^3 sediment / 1,071 L oil
	10 ft (3048 mm) Diameter OGS Units:	17.78 m^3 sediment / 1,673 L oil
	12 ft (3657 mm) Diameter OGS Units:	31.23 m^3 sediment / 2,476 L oil

PART 3 – PERFORMANCE & DESIGN

3.1 GENERAL

The OGS stormwater quality treatment device shall be verified in accordance with ISO 14034:2016 Environmental management – Environmental technology verification (ETV). The OGS stormwater quality treatment device shall

remove oil, sediment and gross pollutants from stormwater runoff during frequent wet weather events, and retain these pollutants during less frequent high flow wet weather events below the insert within the OGS for later removal during maintenance. The Manufacturer shall have at least ten (10) years of local experience, history and success in engineering design, manufacturing and production and supply of OGS stormwater quality treatment device systems, acceptable to the Engineer of Record.

3.2 SIZING METHODOLOGY

The OGS device shall be engineered, designed and sized to provide stormwater quality treatment based on treating a minimum of 90 percent of the average annual runoff volume and a minimum removal of an annual average 60% of the sediment (TSS) load based on the Particle Size Distribution (PSD) specified in the sizing report for the specified device. Sizing of the OGS shall be determined by use of a minimum ten (10) years of local historical rainfall data provided by Environment Canada. Sizing shall also be determined by use of the sediment removal performance data derived from the ISO 14034 ETV third-party verified laboratory testing data from testing conducted in accordance with the Canadian ETV protocol Procedure for Laboratory Testing of Oil-Grit Separators, as follows:

3.2.1 Sediment removal efficiency for a given surface loading rate and its associated flow rate shall be based on sediment removal efficiency demonstrated at the seven (7) tested surface loading rates specified in the protocol, ranging 40 L/min/m^2 to 1400 L/min/m^2, and as stated in the ISO 14034 ETV Verification Statement for the OGS device.

3.2.2 Sediment removal efficiency for surface loading rates between 40 L/min/m^2 and 1400 L/min/m^2 shall be based on linear interpolation of data between consecutive tested surface loading rates.

3.2.3 Sediment removal efficiency for surface loading rates less than the lowest tested surface loading rate of 40 L/min/m^2 shall be assumed to be identical to the sediment removal efficiency at 40 L/min/m^2. No extrapolation shall be allowed that results in a sediment removal efficiency that is greater than that demonstrated at 40 L/min/m^2.

3.2.4 Sediment removal efficiency for surface loading rates greater than the highest tested surface loading rate of 1400 L/min/m^2 shall assume zero sediment removal for the portion of flow that exceeds 1400 L/min/m^2, and shall be calculated using a simple proportioning formula, with 1400 L/min/m^2 in the numerator and the higher surface loading rate in the denominator, and multiplying the resulting fraction times the sediment removal efficiency at 1400 L/min/m^2.

The OGS device shall also have sufficient annual sediment storage capacity as specified and calculated in Section 2.1.

3.3 CANADIAN ETV or ISO 14034 ETV VERIFICATION OF SCOUR TESTING

The OGS device shall have Canadian ETV or ISO 14034 ETV Verification of third-party scour testing conducted in accordance with the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators.**

3.3.1 To be acceptable for on-line installation, the OGS device must demonstrate an average scour test effluent concentration less than 10 mg/L at each surface loading rate tested, up to and including 2600 L/min/m^2.

3.4 LIGHT LIQUID RE-ENTRAINMENT SIMULATION TESTING

The OGS device shall have Canadian ETV or ISO 14034 ETV Verification of completed third-party Light Liquid Re-entrainment Simulation Testing in accordance with the Canadian ETV **Program's Procedure for Laboratory Testing of Oil-Grit Separators,** with results reported within the Canadian ETV or ISO 14034 ETV verification. This re-entrainment testing is conducted with the device pre-loaded with low density polyethylene (LDPE) plastic beads as a surrogate for light liquids such as oil and fuel. Testing is conducted on the same OGS unit tested for sediment removal to

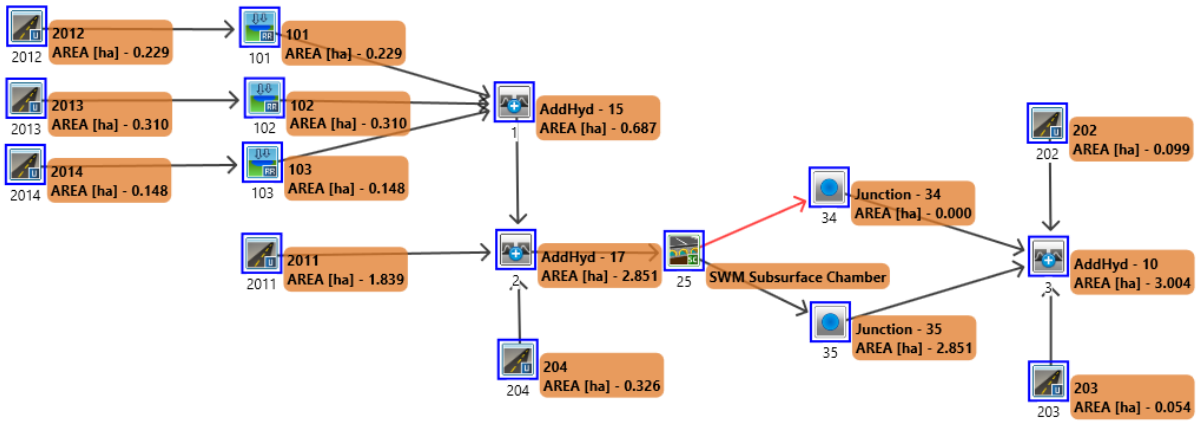
assess whether light liquids captured after a spill are effectively retained at high flow rates.

3.4.1 For an OGS device to be an acceptable stormwater treatment device on a site where vehicular traffic occurs and the potential for an oil or fuel spill exists, the OGS device must have reported verified performance results of greater than 99% cumulative retention of LDPE plastic beads for the five specified surface loading rates (ranging 200 L/min/m^2 to 2600 L/min/m^2) in accordance with the Light Liquid Re-entrainment Simulation Testing within the Canadian ETV Program's **Procedure for Laboratory Testing of Oil-Grit Separators.** However, an OGS device shall not be allowed if the Light Liquid Re-entrainment Simulation Testing was performed with screening components within the OGS device that are effective at retaining the LDPE plastic beads, but would not be expected to retain light liquids such as oil and fuel.

APPENDIX

D

Modelling Output (Visual OTTHYMO)



```
********************************
** SIMULATION:1.0 2Y24HSCS    **
********************************

--------------------
|    READ STORM    |    Filename: C:\Users\CAAS077425\AppD
|                  |              ata\Local\Temp\
|                  |              928a9435-1a45-4733-a537-3482c3d30588\ba122d41
| Ptotal= 52.14 mm |    Comments: 2Y24HSCS
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.51	6.00	1.02	12.00	10.67	18.00	0.76
0.20	0.51	6.20	1.02	12.20	6.60	18.20	0.76
0.40	0.51	6.40	1.02	12.40	4.83	18.40	0.76
0.60	0.51	6.60	1.02	12.60	4.57	18.60	0.76
0.80	0.51	6.80	1.02	12.80	3.30	18.80	0.76
1.00	0.51	7.00	1.02	13.00	2.79	19.00	0.76
1.20	0.51	7.20	1.02	13.20	2.79	19.20	0.76
1.40	0.51	7.40	1.02	13.40	2.79	19.40	0.76
1.60	0.51	7.60	1.02	13.60	2.79	19.60	0.76
1.80	0.51	7.80	1.02	13.80	2.79	19.80	0.76
2.00	0.51	8.00	1.52	14.00	1.52	20.00	0.51
2.20	0.51	8.20	1.52	14.20	1.52	20.20	0.51
2.40	0.51	8.40	1.52	14.40	1.52	20.40	0.51
2.60	0.51	8.60	1.52	14.60	1.52	20.60	0.51
2.80	0.51	8.80	1.52	14.80	1.52	20.80	0.51
3.00	0.51	9.00	1.52	15.00	1.52	21.00	0.51
3.20	0.51	9.20	1.52	15.20	1.52	21.20	0.51
3.40	0.51	9.40	1.52	15.40	1.52	21.40	0.51
3.60	0.51	9.60	1.52	15.60	1.52	21.60	0.51
3.80	0.51	9.80	1.52	15.80	1.52	21.80	0.51
4.00	1.02	10.00	3.05	16.00	1.02	22.00	0.51
4.20	1.02	10.20	3.05	16.20	1.02	22.20	0.51
4.40	1.02	10.40	3.05	16.40	1.02	22.40	0.51
4.60	1.02	10.60	3.05	16.60	1.02	22.60	0.51
4.80	1.02	10.80	3.05	16.80	1.02	22.80	0.51
5.00	1.02	11.00	4.06	17.00	1.02	23.00	0.51
5.20	1.02	11.20	5.84	17.20	1.02	23.20	0.51
5.40	1.02	11.40	13.21	17.40	1.02	23.40	0.51
5.60	1.02	11.60	28.96	17.60	1.02	23.60	0.51
5.80	1.02	11.80	60.45	17.80	1.02	23.80	0.51

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--------------------
| CALIB            |
| STANDHYD (  2011)|   Area    (ha)=   1.84
|ID= 1 DT= 5.0 min |   Total Imp(%)=  77.00   Dir. Conn.(%)=  77.00
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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.42	0.42
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	110.72	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.51	6.083	1.02	12.083	10.68	18.08	0.76
0.167	0.51	6.167	1.02	12.167	10.67	18.17	0.76
0.250	0.51	6.250	1.02	12.250	8.23	18.25	0.76
0.333	0.51	6.333	1.02	12.333	6.60	18.33	0.76
0.417	0.51	6.417	1.02	12.417	6.25	18.42	0.76
0.500	0.51	6.500	1.02	12.500	4.83	18.50	0.76
0.583	0.51	6.583	1.02	12.583	4.83	18.58	0.76
0.667	0.51	6.667	1.02	12.667	4.62	18.67	0.76
0.750	0.51	6.750	1.02	12.750	4.57	18.75	0.76
0.833	0.51	6.833	1.02	12.833	4.06	18.83	0.76
0.917	0.51	6.917	1.02	12.917	3.30	18.92	0.76
1.000	0.51	7.000	1.02	13.000	3.30	19.00	0.76
1.083	0.51	7.083	1.02	13.083	2.79	19.08	0.76
1.167	0.51	7.167	1.02	13.167	2.79	19.17	0.76
1.250	0.51	7.250	1.02	13.250	2.79	19.25	0.76
1.333	0.51	7.333	1.02	13.333	2.79	19.33	0.76
1.417	0.51	7.417	1.02	13.417	2.79	19.42	0.76
1.500	0.51	7.500	1.02	13.500	2.79	19.50	0.76
1.583	0.51	7.583	1.02	13.583	2.79	19.58	0.76
1.667	0.51	7.667	1.02	13.667	2.79	19.67	0.76
1.750	0.51	7.750	1.02	13.750	2.79	19.75	0.76
1.833	0.51	7.833	1.02	13.833	2.79	19.83	0.76
1.917	0.51	7.917	1.02	13.917	2.79	19.92	0.76
2.000	0.51	8.000	1.02	14.000	2.79	20.00	0.76
2.083	0.51	8.083	1.52	14.083	1.52	20.08	0.51
2.167	0.51	8.167	1.52	14.167	1.52	20.17	0.51
2.250	0.51	8.250	1.52	14.250	1.52	20.25	0.51
2.333	0.51	8.333	1.52	14.333	1.52	20.33	0.51
2.417	0.51	8.417	1.52	14.417	1.52	20.42	0.51
2.500	0.51	8.500	1.52	14.500	1.52	20.50	0.51
2.583	0.51	8.583	1.52	14.583	1.52	20.58	0.51
2.667	0.51	8.667	1.52	14.667	1.52	20.67	0.51
2.750	0.51	8.750	1.52	14.750	1.52	20.75	0.51
2.833	0.51	8.833	1.52	14.833	1.52	20.83	0.51
2.917	0.51	8.917	1.52	14.917	1.52	20.92	0.51
3.000	0.51	9.000	1.52	15.000	1.52	21.00	0.51
3.083	0.51	9.083	1.52	15.083	1.52	21.08	0.51

3.167	0.51	9.167	1.52	15.167	1.52	21.17	0.51
3.250	0.51	9.250	1.52	15.250	1.52	21.25	0.51
3.333	0.51	9.333	1.52	15.333	1.52	21.33	0.51
3.417	0.51	9.417	1.52	15.417	1.52	21.42	0.51
3.500	0.51	9.500	1.52	15.500	1.52	21.50	0.51
3.583	0.51	9.583	1.52	15.583	1.52	21.58	0.51
3.667	0.51	9.667	1.52	15.667	1.52	21.67	0.51
3.750	0.51	9.750	1.52	15.750	1.52	21.75	0.51
3.833	0.51	9.833	1.52	15.833	1.52	21.83	0.51
3.917	0.51	9.917	1.52	15.917	1.52	21.92	0.51
4.000	0.51	10.000	1.52	16.000	1.52	22.00	0.51
4.083	1.02	10.083	3.05	16.083	1.02	22.08	0.51
4.167	1.02	10.167	3.05	16.167	1.02	22.17	0.51
4.250	1.02	10.250	3.05	16.250	1.02	22.25	0.51
4.333	1.02	10.333	3.05	16.333	1.02	22.33	0.51
4.417	1.02	10.417	3.05	16.417	1.02	22.42	0.51
4.500	1.02	10.500	3.05	16.500	1.02	22.50	0.51
4.583	1.02	10.583	3.05	16.583	1.02	22.58	0.51
4.667	1.02	10.667	3.05	16.667	1.02	22.67	0.51
4.750	1.02	10.750	3.05	16.750	1.02	22.75	0.51
4.833	1.02	10.833	3.05	16.833	1.02	22.83	0.51
4.917	1.02	10.917	3.05	16.917	1.02	22.92	0.51
5.000	1.02	11.000	3.05	17.000	1.02	23.00	0.51
5.083	1.02	11.083	4.06	17.083	1.02	23.08	0.51
5.167	1.02	11.167	4.06	17.167	1.02	23.17	0.51
5.250	1.02	11.250	5.13	17.250	1.02	23.25	0.51
5.333	1.02	11.333	5.84	17.333	1.02	23.33	0.51
5.417	1.02	11.417	7.31	17.417	1.02	23.42	0.51
5.500	1.02	11.500	13.21	17.500	1.02	23.50	0.51
5.583	1.02	11.583	13.21	17.583	1.02	23.58	0.51
5.667	1.02	11.667	25.81	17.667	1.02	23.67	0.51
5.750	1.02	11.750	28.96	17.750	1.02	23.75	0.51
5.833	1.02	11.833	41.55	17.833	1.02	23.83	0.51
5.917	1.02	11.917	60.45	17.917	1.02	23.92	0.51
6.000	1.02	12.000	60.45	18.000	1.02	24.00	0.51

Max.Eff.Inten.(mm/hr)=	60.45	9.86	
over (min)	5.00	25.00	
Storage Coeff. (min)=	3.32 (ii)	21.15 (ii)	
Unit Hyd. Tpeak (min)=	5.00	25.00	
Unit Hyd. peak (cms)=	0.26	0.05	
			TOTALS
PEAK FLOW (cms)=	0.23	0.01	0.237 (iii)
TIME TO PEAK (hrs)=	12.00	12.25	12.00
RUNOFF VOLUME (mm)=	51.14	9.94	41.65
TOTAL RAINFALL (mm)=	52.14	52.14	52.14
RUNOFF COEFFICIENT =	0.98	0.19	0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (2012)	Area (ha)= 0.23
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.23	0.00
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.50	2.00
Length	(m)=	67.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.51	6.017	1.02	12.017	10.70	18.02	0.76
0.033	0.51	6.033	1.02	12.033	10.67	18.03	0.76
0.050	0.51	6.050	1.02	12.050	10.67	18.05	0.76
0.067	0.51	6.067	1.02	12.067	10.67	18.07	0.76
0.083	0.51	6.083	1.02	12.083	10.67	18.08	0.76
0.100	0.51	6.100	1.02	12.100	10.67	18.10	0.76
0.117	0.51	6.117	1.02	12.117	10.67	18.12	0.76
0.133	0.51	6.133	1.02	12.133	10.67	18.13	0.76
0.150	0.51	6.150	1.02	12.150	10.67	18.15	0.76
0.167	0.51	6.167	1.02	12.167	10.67	18.17	0.76
0.183	0.51	6.183	1.02	12.183	10.67	18.18	0.76
0.200	0.51	6.200	1.02	12.200	10.67	18.20	0.76
0.217	0.51	6.217	1.02	12.217	6.60	18.22	0.76
0.233	0.51	6.233	1.02	12.233	6.60	18.23	0.76
0.250	0.51	6.250	1.02	12.250	6.60	18.25	0.76
0.267	0.51	6.267	1.02	12.267	6.60	18.27	0.76
0.283	0.51	6.283	1.02	12.283	6.60	18.28	0.76
0.300	0.51	6.300	1.02	12.300	6.60	18.30	0.76
0.317	0.51	6.317	1.02	12.317	6.60	18.32	0.76
0.333	0.51	6.333	1.02	12.333	6.60	18.33	0.76
0.350	0.51	6.350	1.02	12.350	6.60	18.35	0.76
0.367	0.51	6.367	1.02	12.367	6.60	18.37	0.76
0.383	0.51	6.383	1.02	12.383	6.60	18.38	0.76
0.400	0.51	6.400	1.02	12.400	6.60	18.40	0.76
0.417	0.51	6.417	1.02	12.417	4.83	18.42	0.76

0.433	0.51	6.433	1.02	12.433	4.83	18.43	0.76
0.450	0.51	6.450	1.02	12.450	4.83	18.45	0.76
0.467	0.51	6.467	1.02	12.467	4.83	18.47	0.76
0.483	0.51	6.483	1.02	12.483	4.83	18.48	0.76
0.500	0.51	6.500	1.02	12.500	4.83	18.50	0.76
0.517	0.51	6.517	1.02	12.517	4.83	18.52	0.76
0.533	0.51	6.533	1.02	12.533	4.83	18.53	0.76
0.550	0.51	6.550	1.02	12.550	4.83	18.55	0.76
0.567	0.51	6.567	1.02	12.567	4.83	18.57	0.76
0.583	0.51	6.583	1.02	12.583	4.83	18.58	0.76
0.600	0.51	6.600	1.02	12.600	4.83	18.60	0.76
0.617	0.51	6.617	1.02	12.617	4.57	18.62	0.76
0.633	0.51	6.633	1.02	12.633	4.57	18.63	0.76
0.650	0.51	6.650	1.02	12.650	4.57	18.65	0.76
0.667	0.51	6.667	1.02	12.667	4.57	18.67	0.76
0.683	0.51	6.683	1.02	12.683	4.57	18.68	0.76
0.700	0.51	6.700	1.02	12.700	4.57	18.70	0.76
0.717	0.51	6.717	1.02	12.717	4.57	18.72	0.76
0.733	0.51	6.733	1.02	12.733	4.57	18.73	0.76
0.750	0.51	6.750	1.02	12.750	4.57	18.75	0.76
0.767	0.51	6.767	1.02	12.767	4.57	18.77	0.76
0.783	0.51	6.783	1.02	12.783	4.57	18.78	0.76
0.800	0.51	6.800	1.02	12.800	4.57	18.80	0.76
0.817	0.51	6.817	1.02	12.817	3.30	18.82	0.76
0.833	0.51	6.833	1.02	12.833	3.30	18.83	0.76
0.850	0.51	6.850	1.02	12.850	3.30	18.85	0.76
0.867	0.51	6.867	1.02	12.867	3.30	18.87	0.76
0.883	0.51	6.883	1.02	12.883	3.30	18.88	0.76
0.900	0.51	6.900	1.02	12.900	3.30	18.90	0.76
0.917	0.51	6.917	1.02	12.917	3.30	18.92	0.76
0.933	0.51	6.933	1.02	12.933	3.30	18.93	0.76
0.950	0.51	6.950	1.02	12.950	3.30	18.95	0.76
0.967	0.51	6.967	1.02	12.967	3.30	18.97	0.76
0.983	0.51	6.983	1.02	12.983	3.30	18.98	0.76
1.000	0.51	7.000	1.02	13.000	3.30	19.00	0.76
1.017	0.51	7.017	1.02	13.017	2.79	19.02	0.76
1.033	0.51	7.033	1.02	13.033	2.79	19.03	0.76
1.050	0.51	7.050	1.02	13.050	2.79	19.05	0.76
1.067	0.51	7.067	1.02	13.067	2.79	19.07	0.76
1.083	0.51	7.083	1.02	13.083	2.79	19.08	0.76
1.100	0.51	7.100	1.02	13.100	2.79	19.10	0.76
1.117	0.51	7.117	1.02	13.117	2.79	19.12	0.76
1.133	0.51	7.133	1.02	13.133	2.79	19.13	0.76
1.150	0.51	7.150	1.02	13.150	2.79	19.15	0.76
1.167	0.51	7.167	1.02	13.167	2.79	19.17	0.76
1.183	0.51	7.183	1.02	13.183	2.79	19.18	0.76
1.200	0.51	7.200	1.02	13.200	2.79	19.20	0.76
1.217	0.51	7.217	1.02	13.217	2.79	19.22	0.76
1.233	0.51	7.233	1.02	13.233	2.79	19.23	0.76
1.250	0.51	7.250	1.02	13.250	2.79	19.25	0.76
1.267	0.51	7.267	1.02	13.267	2.79	19.27	0.76
1.283	0.51	7.283	1.02	13.283	2.79	19.28	0.76
1.300	0.51	7.300	1.02	13.300	2.79	19.30	0.76
1.317	0.51	7.317	1.02	13.317	2.79	19.32	0.76
1.333	0.51	7.333	1.02	13.333	2.79	19.33	0.76
1.350	0.51	7.350	1.02	13.350	2.79	19.35	0.76
1.367	0.51	7.367	1.02	13.367	2.79	19.37	0.76
1.383	0.51	7.383	1.02	13.383	2.79	19.38	0.76
1.400	0.51	7.400	1.02	13.400	2.79	19.40	0.76
1.417	0.51	7.417	1.02	13.417	2.79	19.42	0.76
1.433	0.51	7.433	1.02	13.433	2.79	19.43	0.76
1.450	0.51	7.450	1.02	13.450	2.79	19.45	0.76
1.467	0.51	7.467	1.02	13.467	2.79	19.47	0.76
1.483	0.51	7.483	1.02	13.483	2.79	19.48	0.76
1.500	0.51	7.500	1.02	13.500	2.79	19.50	0.76
1.517	0.51	7.517	1.02	13.517	2.79	19.52	0.76
1.533	0.51	7.533	1.02	13.533	2.79	19.53	0.76
1.550	0.51	7.550	1.02	13.550	2.79	19.55	0.76
1.567	0.51	7.567	1.02	13.567	2.79	19.57	0.76
1.583	0.51	7.583	1.02	13.583	2.79	19.58	0.76
1.600	0.51	7.600	1.02	13.600	2.79	19.60	0.76
1.617	0.51	7.617	1.02	13.617	2.79	19.62	0.76
1.633	0.51	7.633	1.02	13.633	2.79	19.63	0.76
1.650	0.51	7.650	1.02	13.650	2.79	19.65	0.76
1.667	0.51	7.667	1.02	13.667	2.79	19.67	0.76
1.683	0.51	7.683	1.02	13.683	2.79	19.68	0.76
1.700	0.51	7.700	1.02	13.700	2.79	19.70	0.76
1.717	0.51	7.717	1.02	13.717	2.79	19.72	0.76
1.733	0.51	7.733	1.02	13.733	2.79	19.73	0.76
1.750	0.51	7.750	1.02	13.750	2.79	19.75	0.76
1.767	0.51	7.767	1.02	13.767	2.79	19.77	0.76
1.783	0.51	7.783	1.02	13.783	2.79	19.78	0.76
1.800	0.51	7.800	1.02	13.800	2.79	19.80	0.76
1.817	0.51	7.817	1.02	13.817	2.79	19.82	0.76
1.833	0.51	7.833	1.02	13.833	2.79	19.83	0.76
1.850	0.51	7.850	1.02	13.850	2.79	19.85	0.76
1.867	0.51	7.867	1.02	13.867	2.79	19.87	0.76
1.883	0.51	7.883	1.02	13.883	2.79	19.88	0.76
1.900	0.51	7.900	1.02	13.900	2.79	19.90	0.76
1.917	0.51	7.917	1.02	13.917	2.79	19.92	0.76
1.933	0.51	7.933	1.02	13.933	2.79	19.93	0.76
1.950	0.51	7.950	1.02	13.950	2.79	19.95	0.76
1.967	0.51	7.967	1.02	13.967	2.79	19.97	0.76
1.983	0.51	7.983	1.02	13.983	2.79	19.98	0.76
2.000	0.51	8.000	1.02	14.000	2.79	20.00	0.76
2.017	0.51	8.017	1.52	14.017	1.52	20.02	0.51
2.033	0.51	8.033	1.52	14.033	1.52	20.03	0.51
2.050	0.51	8.050	1.52	14.050	1.52	20.05	0.51
2.067	0.51	8.067	1.52	14.067	1.52	20.07	0.51
2.083	0.51	8.083	1.52	14.083	1.52	20.08	0.51

2.100	0.51	8.100	1.52	14.100	1.52	20.10	0.51
2.117	0.51	8.117	1.52	14.117	1.52	20.12	0.51
2.133	0.51	8.133	1.52	14.133	1.52	20.13	0.51
2.150	0.51	8.150	1.52	14.150	1.52	20.15	0.51
2.167	0.51	8.167	1.52	14.167	1.52	20.17	0.51
2.183	0.51	8.183	1.52	14.183	1.52	20.18	0.51
2.200	0.51	8.200	1.52	14.200	1.52	20.20	0.51
2.217	0.51	8.217	1.52	14.217	1.52	20.22	0.51
2.233	0.51	8.233	1.52	14.233	1.52	20.23	0.51
2.250	0.51	8.250	1.52	14.250	1.52	20.25	0.51
2.267	0.51	8.267	1.52	14.267	1.52	20.27	0.51
2.283	0.51	8.283	1.52	14.283	1.52	20.28	0.51
2.300	0.51	8.300	1.52	14.300	1.52	20.30	0.51
2.317	0.51	8.317	1.52	14.317	1.52	20.32	0.51
2.333	0.51	8.333	1.52	14.333	1.52	20.33	0.51
2.350	0.51	8.350	1.52	14.350	1.52	20.35	0.51
2.367	0.51	8.367	1.52	14.367	1.52	20.37	0.51
2.383	0.51	8.383	1.52	14.383	1.52	20.38	0.51
2.400	0.51	8.400	1.52	14.400	1.52	20.40	0.51
2.417	0.51	8.417	1.52	14.417	1.52	20.42	0.51
2.433	0.51	8.433	1.52	14.433	1.52	20.43	0.51
2.450	0.51	8.450	1.52	14.450	1.52	20.45	0.51
2.467	0.51	8.467	1.52	14.467	1.52	20.47	0.51
2.483	0.51	8.483	1.52	14.483	1.52	20.48	0.51
2.500	0.51	8.500	1.52	14.500	1.52	20.50	0.51
2.517	0.51	8.517	1.52	14.517	1.52	20.52	0.51
2.533	0.51	8.533	1.52	14.533	1.52	20.53	0.51
2.550	0.51	8.550	1.52	14.550	1.52	20.55	0.51
2.567	0.51	8.567	1.52	14.567	1.52	20.57	0.51
2.583	0.51	8.583	1.52	14.583	1.52	20.58	0.51
2.600	0.51	8.600	1.52	14.600	1.52	20.60	0.51
2.617	0.51	8.617	1.52	14.617	1.52	20.62	0.51
2.633	0.51	8.633	1.52	14.633	1.52	20.63	0.51
2.650	0.51	8.650	1.52	14.650	1.52	20.65	0.51
2.667	0.51	8.667	1.52	14.667	1.52	20.67	0.51
2.683	0.51	8.683	1.52	14.683	1.52	20.68	0.51
2.700	0.51	8.700	1.52	14.700	1.52	20.70	0.51
2.717	0.51	8.717	1.52	14.717	1.52	20.72	0.51
2.733	0.51	8.733	1.52	14.733	1.52	20.73	0.51
2.750	0.51	8.750	1.52	14.750	1.52	20.75	0.51
2.767	0.51	8.767	1.52	14.767	1.52	20.77	0.51
2.783	0.51	8.783	1.52	14.783	1.52	20.78	0.51
2.800	0.51	8.800	1.52	14.800	1.52	20.80	0.51
2.817	0.51	8.817	1.52	14.817	1.52	20.82	0.51
2.833	0.51	8.833	1.52	14.833	1.52	20.83	0.51
2.850	0.51	8.850	1.52	14.850	1.52	20.85	0.51
2.867	0.51	8.867	1.52	14.867	1.52	20.87	0.51
2.883	0.51	8.883	1.52	14.883	1.52	20.88	0.51
2.900	0.51	8.900	1.52	14.900	1.52	20.90	0.51
2.917	0.51	8.917	1.52	14.917	1.52	20.92	0.51
2.933	0.51	8.933	1.52	14.933	1.52	20.93	0.51
2.950	0.51	8.950	1.52	14.950	1.52	20.95	0.51
2.967	0.51	8.967	1.52	14.967	1.52	20.97	0.51
2.983	0.51	8.983	1.52	14.983	1.52	20.98	0.51
3.000	0.51	9.000	1.52	15.000	1.52	21.00	0.51
3.017	0.51	9.017	1.52	15.017	1.52	21.02	0.51
3.033	0.51	9.033	1.52	15.033	1.52	21.03	0.51
3.050	0.51	9.050	1.52	15.050	1.52	21.05	0.51
3.067	0.51	9.067	1.52	15.067	1.52	21.07	0.51
3.083	0.51	9.083	1.52	15.083	1.52	21.08	0.51
3.100	0.51	9.100	1.52	15.100	1.52	21.10	0.51
3.117	0.51	9.117	1.52	15.117	1.52	21.12	0.51
3.133	0.51	9.133	1.52	15.133	1.52	21.13	0.51
3.150	0.51	9.150	1.52	15.150	1.52	21.15	0.51
3.167	0.51	9.167	1.52	15.167	1.52	21.17	0.51
3.183	0.51	9.183	1.52	15.183	1.52	21.18	0.51
3.200	0.51	9.200	1.52	15.200	1.52	21.20	0.51
3.217	0.51	9.217	1.52	15.217	1.52	21.22	0.51
3.233	0.51	9.233	1.52	15.233	1.52	21.23	0.51
3.250	0.51	9.250	1.52	15.250	1.52	21.25	0.51
3.267	0.51	9.267	1.52	15.267	1.52	21.27	0.51
3.283	0.51	9.283	1.52	15.283	1.52	21.28	0.51
3.300	0.51	9.300	1.52	15.300	1.52	21.30	0.51
3.317	0.51	9.317	1.52	15.317	1.52	21.32	0.51
3.333	0.51	9.333	1.52	15.333	1.52	21.33	0.51
3.350	0.51	9.350	1.52	15.350	1.52	21.35	0.51
3.367	0.51	9.367	1.52	15.367	1.52	21.37	0.51
3.383	0.51	9.383	1.52	15.383	1.52	21.38	0.51
3.400	0.51	9.400	1.52	15.400	1.52	21.40	0.51
3.417	0.51	9.417	1.52	15.417	1.52	21.42	0.51
3.433	0.51	9.433	1.52	15.433	1.52	21.43	0.51
3.450	0.51	9.450	1.52	15.450	1.52	21.45	0.51
3.467	0.51	9.467	1.52	15.467	1.52	21.47	0.51
3.483	0.51	9.483	1.52	15.483	1.52	21.48	0.51
3.500	0.51	9.500	1.52	15.500	1.52	21.50	0.51
3.517	0.51	9.517	1.52	15.517	1.52	21.52	0.51
3.533	0.51	9.533	1.52	15.533	1.52	21.53	0.51
3.550	0.51	9.550	1.52	15.550	1.52	21.55	0.51
3.567	0.51	9.567	1.52	15.567	1.52	21.57	0.51
3.583	0.51	9.583	1.52	15.583	1.52	21.58	0.51
3.600	0.51	9.600	1.52	15.600	1.52	21.60	0.51
3.617	0.51	9.617	1.52	15.617	1.52	21.62	0.51
3.633	0.51	9.633	1.52	15.633	1.52	21.63	0.51
3.650	0.51	9.650	1.52	15.650	1.52	21.65	0.51
3.667	0.51	9.667	1.52	15.667	1.52	21.67	0.51
3.683	0.51	9.683	1.52	15.683	1.52	21.68	0.51
3.700	0.51	9.700	1.52	15.700	1.52	21.70	0.51
3.717	0.51	9.717	1.52	15.717	1.52	21.72	0.51
3.733	0.51	9.733	1.52	15.733	1.52	21.73	0.51
3.750	0.51	9.750	1.52	15.750	1.52	21.75	0.51

3.767	0.51	9.767	1.52	15.767	1.52	21.77	0.51
3.783	0.51	9.783	1.52	15.783	1.52	21.78	0.51
3.800	0.51	9.800	1.52	15.800	1.52	21.80	0.51
3.817	0.51	9.817	1.52	15.817	1.52	21.82	0.51
3.833	0.51	9.833	1.52	15.833	1.52	21.83	0.51
3.850	0.51	9.850	1.52	15.850	1.52	21.85	0.51
3.867	0.51	9.867	1.52	15.867	1.52	21.87	0.51
3.883	0.51	9.883	1.52	15.883	1.52	21.88	0.51
3.900	0.51	9.900	1.52	15.900	1.52	21.90	0.51
3.917	0.51	9.917	1.52	15.917	1.52	21.92	0.51
3.933	0.51	9.933	1.52	15.933	1.52	21.93	0.51
3.950	0.51	9.950	1.52	15.950	1.52	21.95	0.51
3.967	0.51	9.967	1.52	15.967	1.52	21.97	0.51
3.983	0.51	9.983	1.52	15.983	1.52	21.98	0.51
4.000	0.51	10.000	1.52	16.000	1.52	22.00	0.51
4.017	1.02	10.017	3.05	16.017	1.02	22.02	0.51
4.033	1.02	10.033	3.05	16.033	1.02	22.03	0.51
4.050	1.02	10.050	3.05	16.050	1.02	22.05	0.51
4.067	1.02	10.067	3.05	16.067	1.02	22.07	0.51
4.083	1.02	10.083	3.05	16.083	1.02	22.08	0.51
4.100	1.02	10.100	3.05	16.100	1.02	22.10	0.51
4.117	1.02	10.117	3.05	16.117	1.02	22.12	0.51
4.133	1.02	10.133	3.05	16.133	1.02	22.13	0.51
4.150	1.02	10.150	3.05	16.150	1.02	22.15	0.51
4.167	1.02	10.167	3.05	16.167	1.02	22.17	0.51
4.183	1.02	10.183	3.05	16.183	1.02	22.18	0.51
4.200	1.02	10.200	3.05	16.200	1.02	22.20	0.51
4.217	1.02	10.217	3.05	16.217	1.02	22.22	0.51
4.233	1.02	10.233	3.05	16.233	1.02	22.23	0.51
4.250	1.02	10.250	3.05	16.250	1.02	22.25	0.51
4.267	1.02	10.267	3.05	16.267	1.02	22.27	0.51
4.283	1.02	10.283	3.05	16.283	1.02	22.28	0.51
4.300	1.02	10.300	3.05	16.300	1.02	22.30	0.51
4.317	1.02	10.317	3.05	16.317	1.02	22.32	0.51
4.333	1.02	10.333	3.05	16.333	1.02	22.33	0.51
4.350	1.02	10.350	3.05	16.350	1.02	22.35	0.51
4.367	1.02	10.367	3.05	16.367	1.02	22.37	0.51
4.383	1.02	10.383	3.05	16.383	1.02	22.38	0.51
4.400	1.02	10.400	3.05	16.400	1.02	22.40	0.51
4.417	1.02	10.417	3.05	16.417	1.02	22.42	0.51
4.433	1.02	10.433	3.05	16.433	1.02	22.43	0.51
4.450	1.02	10.450	3.05	16.450	1.02	22.45	0.51
4.467	1.02	10.467	3.05	16.467	1.02	22.47	0.51
4.483	1.02	10.483	3.05	16.483	1.02	22.48	0.51
4.500	1.02	10.500	3.05	16.500	1.02	22.50	0.51
4.517	1.02	10.517	3.05	16.517	1.02	22.52	0.51
4.533	1.02	10.533	3.05	16.533	1.02	22.53	0.51
4.550	1.02	10.550	3.05	16.550	1.02	22.55	0.51
4.567	1.02	10.567	3.05	16.567	1.02	22.57	0.51
4.583	1.02	10.583	3.05	16.583	1.02	22.58	0.51
4.600	1.02	10.600	3.05	16.600	1.02	22.60	0.51
4.617	1.02	10.617	3.05	16.617	1.02	22.62	0.51
4.633	1.02	10.633	3.05	16.633	1.02	22.63	0.51
4.650	1.02	10.650	3.05	16.650	1.02	22.65	0.51
4.667	1.02	10.667	3.05	16.667	1.02	22.67	0.51
4.683	1.02	10.683	3.05	16.683	1.02	22.68	0.51
4.700	1.02	10.700	3.05	16.700	1.02	22.70	0.51
4.717	1.02	10.717	3.05	16.717	1.02	22.72	0.51
4.733	1.02	10.733	3.05	16.733	1.02	22.73	0.51
4.750	1.02	10.750	3.05	16.750	1.02	22.75	0.51
4.767	1.02	10.767	3.05	16.767	1.02	22.77	0.51
4.783	1.02	10.783	3.05	16.783	1.02	22.78	0.51
4.800	1.02	10.800	3.05	16.800	1.02	22.80	0.51
4.817	1.02	10.817	3.05	16.817	1.02	22.82	0.51
4.833	1.02	10.833	3.05	16.833	1.02	22.83	0.51
4.850	1.02	10.850	3.05	16.850	1.02	22.85	0.51
4.867	1.02	10.867	3.05	16.867	1.02	22.87	0.51
4.883	1.02	10.883	3.05	16.883	1.02	22.88	0.51
4.900	1.02	10.900	3.05	16.900	1.02	22.90	0.51
4.917	1.02	10.917	3.05	16.917	1.02	22.92	0.51
4.933	1.02	10.933	3.05	16.933	1.02	22.93	0.51
4.950	1.02	10.950	3.05	16.950	1.02	22.95	0.51
4.967	1.02	10.967	3.05	16.967	1.02	22.97	0.51
4.983	1.02	10.983	3.05	16.983	1.02	22.98	0.51
5.000	1.02	11.000	3.05	17.000	1.02	23.00	0.51
5.017	1.02	11.017	4.06	17.017	1.02	23.02	0.51
5.033	1.02	11.033	4.06	17.033	1.02	23.03	0.51
5.050	1.02	11.050	4.06	17.050	1.02	23.05	0.51
5.067	1.02	11.067	4.06	17.067	1.02	23.07	0.51
5.083	1.02	11.083	4.06	17.083	1.02	23.08	0.51
5.100	1.02	11.100	4.06	17.100	1.02	23.10	0.51
5.117	1.02	11.117	4.06	17.117	1.02	23.12	0.51
5.133	1.02	11.133	4.06	17.133	1.02	23.13	0.51
5.150	1.02	11.150	4.06	17.150	1.02	23.15	0.51
5.167	1.02	11.167	4.06	17.167	1.02	23.17	0.51
5.183	1.02	11.183	4.06	17.183	1.02	23.18	0.51
5.200	1.02	11.200	4.06	17.200	1.02	23.20	0.51
5.217	1.02	11.217	5.84	17.217	1.02	23.22	0.51
5.233	1.02	11.233	5.84	17.233	1.02	23.23	0.51
5.250	1.02	11.250	5.84	17.250	1.02	23.25	0.51
5.267	1.02	11.267	5.84	17.267	1.02	23.27	0.51
5.283	1.02	11.283	5.84	17.283	1.02	23.28	0.51
5.300	1.02	11.300	5.84	17.300	1.02	23.30	0.51
5.317	1.02	11.317	5.84	17.317	1.02	23.32	0.51
5.333	1.02	11.333	5.84	17.333	1.02	23.33	0.51
5.350	1.02	11.350	5.84	17.350	1.02	23.35	0.51
5.367	1.02	11.367	5.84	17.367	1.02	23.37	0.51
5.383	1.02	11.383	5.84	17.383	1.02	23.38	0.51
5.400	1.02	11.400	5.84	17.400	1.02	23.40	0.51
5.417	1.02	11.417	13.21	17.417	1.02	23.42	0.51

5.433	1.02	11.433	13.21	17.433	1.02	23.43	0.51
5.450	1.02	11.450	13.21	17.450	1.02	23.45	0.51
5.467	1.02	11.467	13.21	17.467	1.02	23.47	0.51
5.483	1.02	11.483	13.21	17.483	1.02	23.48	0.51
5.500	1.02	11.500	13.21	17.500	1.02	23.50	0.51
5.517	1.02	11.517	13.21	17.517	1.02	23.52	0.51
5.533	1.02	11.533	13.21	17.533	1.02	23.53	0.51
5.550	1.02	11.550	13.21	17.550	1.02	23.55	0.51
5.567	1.02	11.567	13.21	17.567	1.02	23.57	0.51
5.583	1.02	11.583	13.21	17.583	1.02	23.58	0.51
5.600	1.02	11.600	13.21	17.600	1.02	23.60	0.51
5.617	1.02	11.617	28.95	17.617	1.02	23.62	0.51
5.633	1.02	11.633	28.96	17.633	1.02	23.63	0.51
5.650	1.02	11.650	28.96	17.650	1.02	23.65	0.51
5.667	1.02	11.667	28.96	17.667	1.02	23.67	0.51
5.683	1.02	11.683	28.96	17.683	1.02	23.68	0.51
5.700	1.02	11.700	28.96	17.700	1.02	23.70	0.51
5.717	1.02	11.717	28.96	17.717	1.02	23.72	0.51
5.733	1.02	11.733	28.96	17.733	1.02	23.73	0.51
5.750	1.02	11.750	28.96	17.750	1.02	23.75	0.51
5.767	1.02	11.767	28.96	17.767	1.02	23.77	0.51
5.783	1.02	11.783	28.96	17.783	1.02	23.78	0.51
5.800	1.02	11.800	28.96	17.800	1.02	23.80	0.51
5.817	1.02	11.817	60.43	17.817	1.02	23.82	0.51
5.833	1.02	11.833	60.45	17.833	1.02	23.83	0.51
5.850	1.02	11.850	60.45	17.850	1.02	23.85	0.51
5.867	1.02	11.867	60.45	17.867	1.02	23.87	0.51
5.883	1.02	11.883	60.45	17.883	1.02	23.88	0.51
5.900	1.02	11.900	60.45	17.900	1.02	23.90	0.51
5.917	1.02	11.917	60.45	17.917	1.02	23.92	0.51
5.933	1.02	11.933	60.45	17.933	1.02	23.93	0.51
5.950	1.02	11.950	60.45	17.950	1.02	23.95	0.51
5.967	1.02	11.967	60.45	17.967	1.02	23.97	0.51
5.983	1.02	11.983	60.45	17.983	1.02	23.98	0.51
6.000	1.02	12.000	60.45	18.000	1.02	24.00	0.51

Max.Eff.Inten.(mm/hr)=	60.45	13.89	
over (min)	5.00	5.00	
Storage Coeff. (min)=	3.03 (ii)	4.40 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.31	0.25	
			TOTALS
PEAK FLOW (cms)=	0.04	0.00	0.037 (iii)
TIME TO PEAK (hrs)=	12.00	12.02	12.00
RUNOFF VOLUME (mm)=	51.13	9.94	50.72
TOTAL RAINFALL (mm)=	52.14	52.14	52.14
RUNOFF COEFFICIENT =	0.98	0.19	0.97

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0101)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0380	0.0061
	0.0190	0.0030	0.0570	0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.037	12.00	50.72
OUTFLOW: ID= 1 (0101)	0.229	0.019	12.10	50.55

PEAK FLOW REDUCTION [Qout/Qin](%)= 49.92
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0029

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB STANDHYD (2014) ID= 1 DT= 1.0 min	Area (ha)= 0.15	
	Total Imp(%)= 99.00	Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.15	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	31.44	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.51	6.017	1.02	12.017	10.70	18.02	0.76
0.033	0.51	6.033	1.02	12.033	10.67	18.03	0.76
0.050	0.51	6.050	1.02	12.050	10.67	18.05	0.76
0.067	0.51	6.067	1.02	12.067	10.67	18.07	0.76
0.083	0.51	6.083	1.02	12.083	10.67	18.08	0.76
0.100	0.51	6.100	1.02	12.100	10.67	18.10	0.76
0.117	0.51	6.117	1.02	12.117	10.67	18.12	0.76

0.133	0.51	6.133	1.02	12.133	10.67	18.13	0.76
0.150	0.51	6.150	1.02	12.150	10.67	18.15	0.76
0.167	0.51	6.167	1.02	12.167	10.67	18.17	0.76
0.183	0.51	6.183	1.02	12.183	10.67	18.18	0.76
0.200	0.51	6.200	1.02	12.200	10.67	18.20	0.76
0.217	0.51	6.217	1.02	12.217	6.60	18.22	0.76
0.233	0.51	6.233	1.02	12.233	6.60	18.23	0.76
0.250	0.51	6.250	1.02	12.250	6.60	18.25	0.76
0.267	0.51	6.267	1.02	12.267	6.60	18.27	0.76
0.283	0.51	6.283	1.02	12.283	6.60	18.28	0.76
0.300	0.51	6.300	1.02	12.300	6.60	18.30	0.76
0.317	0.51	6.317	1.02	12.317	6.60	18.32	0.76
0.333	0.51	6.333	1.02	12.333	6.60	18.33	0.76
0.350	0.51	6.350	1.02	12.350	6.60	18.35	0.76
0.367	0.51	6.367	1.02	12.367	6.60	18.37	0.76
0.383	0.51	6.383	1.02	12.383	6.60	18.38	0.76
0.400	0.51	6.400	1.02	12.400	6.60	18.40	0.76
0.417	0.51	6.417	1.02	12.417	4.83	18.42	0.76
0.433	0.51	6.433	1.02	12.433	4.83	18.43	0.76
0.450	0.51	6.450	1.02	12.450	4.83	18.45	0.76
0.467	0.51	6.467	1.02	12.467	4.83	18.47	0.76
0.483	0.51	6.483	1.02	12.483	4.83	18.48	0.76
0.500	0.51	6.500	1.02	12.500	4.83	18.50	0.76
0.517	0.51	6.517	1.02	12.517	4.83	18.52	0.76
0.533	0.51	6.533	1.02	12.533	4.83	18.53	0.76
0.550	0.51	6.550	1.02	12.550	4.83	18.55	0.76
0.567	0.51	6.567	1.02	12.567	4.83	18.57	0.76
0.583	0.51	6.583	1.02	12.583	4.83	18.58	0.76
0.600	0.51	6.600	1.02	12.600	4.83	18.60	0.76
0.617	0.51	6.617	1.02	12.617	4.57	18.62	0.76
0.633	0.51	6.633	1.02	12.633	4.57	18.63	0.76
0.650	0.51	6.650	1.02	12.650	4.57	18.65	0.76
0.667	0.51	6.667	1.02	12.667	4.57	18.67	0.76
0.683	0.51	6.683	1.02	12.683	4.57	18.68	0.76
0.700	0.51	6.700	1.02	12.700	4.57	18.70	0.76
0.717	0.51	6.717	1.02	12.717	4.57	18.72	0.76
0.733	0.51	6.733	1.02	12.733	4.57	18.73	0.76
0.750	0.51	6.750	1.02	12.750	4.57	18.75	0.76
0.767	0.51	6.767	1.02	12.767	4.57	18.77	0.76
0.783	0.51	6.783	1.02	12.783	4.57	18.78	0.76
0.800	0.51	6.800	1.02	12.800	4.57	18.80	0.76
0.817	0.51	6.817	1.02	12.817	3.30	18.82	0.76
0.833	0.51	6.833	1.02	12.833	3.30	18.83	0.76
0.850	0.51	6.850	1.02	12.850	3.30	18.85	0.76
0.867	0.51	6.867	1.02	12.867	3.30	18.87	0.76
0.883	0.51	6.883	1.02	12.883	3.30	18.88	0.76
0.900	0.51	6.900	1.02	12.900	3.30	18.90	0.76
0.917	0.51	6.917	1.02	12.917	3.30	18.92	0.76
0.933	0.51	6.933	1.02	12.933	3.30	18.93	0.76
0.950	0.51	6.950	1.02	12.950	3.30	18.95	0.76
0.967	0.51	6.967	1.02	12.967	3.30	18.97	0.76
0.983	0.51	6.983	1.02	12.983	3.30	18.98	0.76
1.000	0.51	7.000	1.02	13.000	3.30	19.00	0.76
1.017	0.51	7.017	1.02	13.017	2.79	19.02	0.76
1.033	0.51	7.033	1.02	13.033	2.79	19.03	0.76
1.050	0.51	7.050	1.02	13.050	2.79	19.05	0.76
1.067	0.51	7.067	1.02	13.067	2.79	19.07	0.76
1.083	0.51	7.083	1.02	13.083	2.79	19.08	0.76
1.100	0.51	7.100	1.02	13.100	2.79	19.10	0.76
1.117	0.51	7.117	1.02	13.117	2.79	19.12	0.76
1.133	0.51	7.133	1.02	13.133	2.79	19.13	0.76
1.150	0.51	7.150	1.02	13.150	2.79	19.15	0.76
1.167	0.51	7.167	1.02	13.167	2.79	19.17	0.76
1.183	0.51	7.183	1.02	13.183	2.79	19.18	0.76
1.200	0.51	7.200	1.02	13.200	2.79	19.20	0.76
1.217	0.51	7.217	1.02	13.217	2.79	19.22	0.76
1.233	0.51	7.233	1.02	13.233	2.79	19.23	0.76
1.250	0.51	7.250	1.02	13.250	2.79	19.25	0.76
1.267	0.51	7.267	1.02	13.267	2.79	19.27	0.76
1.283	0.51	7.283	1.02	13.283	2.79	19.28	0.76
1.300	0.51	7.300	1.02	13.300	2.79	19.30	0.76
1.317	0.51	7.317	1.02	13.317	2.79	19.32	0.76
1.333	0.51	7.333	1.02	13.333	2.79	19.33	0.76
1.350	0.51	7.350	1.02	13.350	2.79	19.35	0.76
1.367	0.51	7.367	1.02	13.367	2.79	19.37	0.76
1.383	0.51	7.383	1.02	13.383	2.79	19.38	0.76
1.400	0.51	7.400	1.02	13.400	2.79	19.40	0.76
1.417	0.51	7.417	1.02	13.417	2.79	19.42	0.76
1.433	0.51	7.433	1.02	13.433	2.79	19.43	0.76
1.450	0.51	7.450	1.02	13.450	2.79	19.45	0.76
1.467	0.51	7.467	1.02	13.467	2.79	19.47	0.76
1.483	0.51	7.483	1.02	13.483	2.79	19.48	0.76
1.500	0.51	7.500	1.02	13.500	2.79	19.50	0.76
1.517	0.51	7.517	1.02	13.517	2.79	19.52	0.76
1.533	0.51	7.533	1.02	13.533	2.79	19.53	0.76
1.550	0.51	7.550	1.02	13.550	2.79	19.55	0.76
1.567	0.51	7.567	1.02	13.567	2.79	19.57	0.76
1.583	0.51	7.583	1.02	13.583	2.79	19.58	0.76
1.600	0.51	7.600	1.02	13.600	2.79	19.60	0.76
1.617	0.51	7.617	1.02	13.617	2.79	19.62	0.76
1.633	0.51	7.633	1.02	13.633	2.79	19.63	0.76
1.650	0.51	7.650	1.02	13.650	2.79	19.65	0.76
1.667	0.51	7.667	1.02	13.667	2.79	19.67	0.76
1.683	0.51	7.683	1.02	13.683	2.79	19.68	0.76
1.700	0.51	7.700	1.02	13.700	2.79	19.70	0.76
1.717	0.51	7.717	1.02	13.717	2.79	19.72	0.76
1.733	0.51	7.733	1.02	13.733	2.79	19.73	0.76
1.750	0.51	7.750	1.02	13.750	2.79	19.75	0.76
1.767	0.51	7.767	1.02	13.767	2.79	19.77	0.76
1.783	0.51	7.783	1.02	13.783	2.79	19.78	0.76

1.800	0.51	7.800	1.02	13.800	2.79	19.80	0.76
1.817	0.51	7.817	1.02	13.817	2.79	19.82	0.76
1.833	0.51	7.833	1.02	13.833	2.79	19.83	0.76
1.850	0.51	7.850	1.02	13.850	2.79	19.85	0.76
1.867	0.51	7.867	1.02	13.867	2.79	19.87	0.76
1.883	0.51	7.883	1.02	13.883	2.79	19.88	0.76
1.900	0.51	7.900	1.02	13.900	2.79	19.90	0.76
1.917	0.51	7.917	1.02	13.917	2.79	19.92	0.76
1.933	0.51	7.933	1.02	13.933	2.79	19.93	0.76
1.950	0.51	7.950	1.02	13.950	2.79	19.95	0.76
1.967	0.51	7.967	1.02	13.967	2.79	19.97	0.76
1.983	0.51	7.983	1.02	13.983	2.79	19.98	0.76
2.000	0.51	8.000	1.02	14.000	2.79	20.00	0.76
2.017	0.51	8.017	1.52	14.017	1.52	20.02	0.51
2.033	0.51	8.033	1.52	14.033	1.52	20.03	0.51
2.050	0.51	8.050	1.52	14.050	1.52	20.05	0.51
2.067	0.51	8.067	1.52	14.067	1.52	20.07	0.51
2.083	0.51	8.083	1.52	14.083	1.52	20.08	0.51
2.100	0.51	8.100	1.52	14.100	1.52	20.10	0.51
2.117	0.51	8.117	1.52	14.117	1.52	20.12	0.51
2.133	0.51	8.133	1.52	14.133	1.52	20.13	0.51
2.150	0.51	8.150	1.52	14.150	1.52	20.15	0.51
2.167	0.51	8.167	1.52	14.167	1.52	20.17	0.51
2.183	0.51	8.183	1.52	14.183	1.52	20.18	0.51
2.200	0.51	8.200	1.52	14.200	1.52	20.20	0.51
2.217	0.51	8.217	1.52	14.217	1.52	20.22	0.51
2.233	0.51	8.233	1.52	14.233	1.52	20.23	0.51
2.250	0.51	8.250	1.52	14.250	1.52	20.25	0.51
2.267	0.51	8.267	1.52	14.267	1.52	20.27	0.51
2.283	0.51	8.283	1.52	14.283	1.52	20.28	0.51
2.300	0.51	8.300	1.52	14.300	1.52	20.30	0.51
2.317	0.51	8.317	1.52	14.317	1.52	20.32	0.51
2.333	0.51	8.333	1.52	14.333	1.52	20.33	0.51
2.350	0.51	8.350	1.52	14.350	1.52	20.35	0.51
2.367	0.51	8.367	1.52	14.367	1.52	20.37	0.51
2.383	0.51	8.383	1.52	14.383	1.52	20.38	0.51
2.400	0.51	8.400	1.52	14.400	1.52	20.40	0.51
2.417	0.51	8.417	1.52	14.417	1.52	20.42	0.51
2.433	0.51	8.433	1.52	14.433	1.52	20.43	0.51
2.450	0.51	8.450	1.52	14.450	1.52	20.45	0.51
2.467	0.51	8.467	1.52	14.467	1.52	20.47	0.51
2.483	0.51	8.483	1.52	14.483	1.52	20.48	0.51
2.500	0.51	8.500	1.52	14.500	1.52	20.50	0.51
2.517	0.51	8.517	1.52	14.517	1.52	20.52	0.51
2.533	0.51	8.533	1.52	14.533	1.52	20.53	0.51
2.550	0.51	8.550	1.52	14.550	1.52	20.55	0.51
2.567	0.51	8.567	1.52	14.567	1.52	20.57	0.51
2.583	0.51	8.583	1.52	14.583	1.52	20.58	0.51
2.600	0.51	8.600	1.52	14.600	1.52	20.60	0.51
2.617	0.51	8.617	1.52	14.617	1.52	20.62	0.51
2.633	0.51	8.633	1.52	14.633	1.52	20.63	0.51
2.650	0.51	8.650	1.52	14.650	1.52	20.65	0.51
2.667	0.51	8.667	1.52	14.667	1.52	20.67	0.51
2.683	0.51	8.683	1.52	14.683	1.52	20.68	0.51
2.700	0.51	8.700	1.52	14.700	1.52	20.70	0.51
2.717	0.51	8.717	1.52	14.717	1.52	20.72	0.51
2.733	0.51	8.733	1.52	14.733	1.52	20.73	0.51
2.750	0.51	8.750	1.52	14.750	1.52	20.75	0.51
2.767	0.51	8.767	1.52	14.767	1.52	20.77	0.51
2.783	0.51	8.783	1.52	14.783	1.52	20.78	0.51
2.800	0.51	8.800	1.52	14.800	1.52	20.80	0.51
2.817	0.51	8.817	1.52	14.817	1.52	20.82	0.51
2.833	0.51	8.833	1.52	14.833	1.52	20.83	0.51
2.850	0.51	8.850	1.52	14.850	1.52	20.85	0.51
2.867	0.51	8.867	1.52	14.867	1.52	20.87	0.51
2.883	0.51	8.883	1.52	14.883	1.52	20.88	0.51
2.900	0.51	8.900	1.52	14.900	1.52	20.90	0.51
2.917	0.51	8.917	1.52	14.917	1.52	20.92	0.51
2.933	0.51	8.933	1.52	14.933	1.52	20.93	0.51
2.950	0.51	8.950	1.52	14.950	1.52	20.95	0.51
2.967	0.51	8.967	1.52	14.967	1.52	20.97	0.51
2.983	0.51	8.983	1.52	14.983	1.52	20.98	0.51
3.000	0.51	9.000	1.52	15.000	1.52	21.00	0.51
3.017	0.51	9.017	1.52	15.017	1.52	21.02	0.51
3.033	0.51	9.033	1.52	15.033	1.52	21.03	0.51
3.050	0.51	9.050	1.52	15.050	1.52	21.05	0.51
3.067	0.51	9.067	1.52	15.067	1.52	21.07	0.51
3.083	0.51	9.083	1.52	15.083	1.52	21.08	0.51
3.100	0.51	9.100	1.52	15.100	1.52	21.10	0.51
3.117	0.51	9.117	1.52	15.117	1.52	21.12	0.51
3.133	0.51	9.133	1.52	15.133	1.52	21.13	0.51
3.150	0.51	9.150	1.52	15.150	1.52	21.15	0.51
3.167	0.51	9.167	1.52	15.167	1.52	21.17	0.51
3.183	0.51	9.183	1.52	15.183	1.52	21.18	0.51
3.200	0.51	9.200	1.52	15.200	1.52	21.20	0.51
3.217	0.51	9.217	1.52	15.217	1.52	21.22	0.51
3.233	0.51	9.233	1.52	15.233	1.52	21.23	0.51
3.250	0.51	9.250	1.52	15.250	1.52	21.25	0.51
3.267	0.51	9.267	1.52	15.267	1.52	21.27	0.51
3.283	0.51	9.283	1.52	15.283	1.52	21.28	0.51
3.300	0.51	9.300	1.52	15.300	1.52	21.30	0.51
3.317	0.51	9.317	1.52	15.317	1.52	21.32	0.51
3.333	0.51	9.333	1.52	15.333	1.52	21.33	0.51
3.350	0.51	9.350	1.52	15.350	1.52	21.35	0.51
3.367	0.51	9.367	1.52	15.367	1.52	21.37	0.51
3.383	0.51	9.383	1.52	15.383	1.52	21.38	0.51
3.400	0.51	9.400	1.52	15.400	1.52	21.40	0.51
3.417	0.51	9.417	1.52	15.417	1.52	21.42	0.51
3.433	0.51	9.433	1.52	15.433	1.52	21.43	0.51
3.450	0.51	9.450	1.52	15.450	1.52	21.45	0.51

3.467	0.51	9.467	1.52	15.467	1.52	21.47	0.51
3.483	0.51	9.483	1.52	15.483	1.52	21.48	0.51
3.500	0.51	9.500	1.52	15.500	1.52	21.50	0.51
3.517	0.51	9.517	1.52	15.517	1.52	21.52	0.51
3.533	0.51	9.533	1.52	15.533	1.52	21.53	0.51
3.550	0.51	9.550	1.52	15.550	1.52	21.55	0.51
3.567	0.51	9.567	1.52	15.567	1.52	21.57	0.51
3.583	0.51	9.583	1.52	15.583	1.52	21.58	0.51
3.600	0.51	9.600	1.52	15.600	1.52	21.60	0.51
3.617	0.51	9.617	1.52	15.617	1.52	21.62	0.51
3.633	0.51	9.633	1.52	15.633	1.52	21.63	0.51
3.650	0.51	9.650	1.52	15.650	1.52	21.65	0.51
3.667	0.51	9.667	1.52	15.667	1.52	21.67	0.51
3.683	0.51	9.683	1.52	15.683	1.52	21.68	0.51
3.700	0.51	9.700	1.52	15.700	1.52	21.70	0.51
3.717	0.51	9.717	1.52	15.717	1.52	21.72	0.51
3.733	0.51	9.733	1.52	15.733	1.52	21.73	0.51
3.750	0.51	9.750	1.52	15.750	1.52	21.75	0.51
3.767	0.51	9.767	1.52	15.767	1.52	21.77	0.51
3.783	0.51	9.783	1.52	15.783	1.52	21.78	0.51
3.800	0.51	9.800	1.52	15.800	1.52	21.80	0.51
3.817	0.51	9.817	1.52	15.817	1.52	21.82	0.51
3.833	0.51	9.833	1.52	15.833	1.52	21.83	0.51
3.850	0.51	9.850	1.52	15.850	1.52	21.85	0.51
3.867	0.51	9.867	1.52	15.867	1.52	21.87	0.51
3.883	0.51	9.883	1.52	15.883	1.52	21.88	0.51
3.900	0.51	9.900	1.52	15.900	1.52	21.90	0.51
3.917	0.51	9.917	1.52	15.917	1.52	21.92	0.51
3.933	0.51	9.933	1.52	15.933	1.52	21.93	0.51
3.950	0.51	9.950	1.52	15.950	1.52	21.95	0.51
3.967	0.51	9.967	1.52	15.967	1.52	21.97	0.51
3.983	0.51	9.983	1.52	15.983	1.52	21.98	0.51
4.000	0.51	10.000	1.52	16.000	1.52	22.00	0.51
4.017	1.02	10.017	3.05	16.017	1.02	22.02	0.51
4.033	1.02	10.033	3.05	16.033	1.02	22.03	0.51
4.050	1.02	10.050	3.05	16.050	1.02	22.05	0.51
4.067	1.02	10.067	3.05	16.067	1.02	22.07	0.51
4.083	1.02	10.083	3.05	16.083	1.02	22.08	0.51
4.100	1.02	10.100	3.05	16.100	1.02	22.10	0.51
4.117	1.02	10.117	3.05	16.117	1.02	22.12	0.51
4.133	1.02	10.133	3.05	16.133	1.02	22.13	0.51
4.150	1.02	10.150	3.05	16.150	1.02	22.15	0.51
4.167	1.02	10.167	3.05	16.167	1.02	22.17	0.51
4.183	1.02	10.183	3.05	16.183	1.02	22.18	0.51
4.200	1.02	10.200	3.05	16.200	1.02	22.20	0.51
4.217	1.02	10.217	3.05	16.217	1.02	22.22	0.51
4.233	1.02	10.233	3.05	16.233	1.02	22.23	0.51
4.250	1.02	10.250	3.05	16.250	1.02	22.25	0.51
4.267	1.02	10.267	3.05	16.267	1.02	22.27	0.51
4.283	1.02	10.283	3.05	16.283	1.02	22.28	0.51
4.300	1.02	10.300	3.05	16.300	1.02	22.30	0.51
4.317	1.02	10.317	3.05	16.317	1.02	22.32	0.51
4.333	1.02	10.333	3.05	16.333	1.02	22.33	0.51
4.350	1.02	10.350	3.05	16.350	1.02	22.35	0.51
4.367	1.02	10.367	3.05	16.367	1.02	22.37	0.51
4.383	1.02	10.383	3.05	16.383	1.02	22.38	0.51
4.400	1.02	10.400	3.05	16.400	1.02	22.40	0.51
4.417	1.02	10.417	3.05	16.417	1.02	22.42	0.51
4.433	1.02	10.433	3.05	16.433	1.02	22.43	0.51
4.450	1.02	10.450	3.05	16.450	1.02	22.45	0.51
4.467	1.02	10.467	3.05	16.467	1.02	22.47	0.51
4.483	1.02	10.483	3.05	16.483	1.02	22.48	0.51
4.500	1.02	10.500	3.05	16.500	1.02	22.50	0.51
4.517	1.02	10.517	3.05	16.517	1.02	22.52	0.51
4.533	1.02	10.533	3.05	16.533	1.02	22.53	0.51
4.550	1.02	10.550	3.05	16.550	1.02	22.55	0.51
4.567	1.02	10.567	3.05	16.567	1.02	22.57	0.51
4.583	1.02	10.583	3.05	16.583	1.02	22.58	0.51
4.600	1.02	10.600	3.05	16.600	1.02	22.60	0.51
4.617	1.02	10.617	3.05	16.617	1.02	22.62	0.51
4.633	1.02	10.633	3.05	16.633	1.02	22.63	0.51
4.650	1.02	10.650	3.05	16.650	1.02	22.65	0.51
4.667	1.02	10.667	3.05	16.667	1.02	22.67	0.51
4.683	1.02	10.683	3.05	16.683	1.02	22.68	0.51
4.700	1.02	10.700	3.05	16.700	1.02	22.70	0.51
4.717	1.02	10.717	3.05	16.717	1.02	22.72	0.51
4.733	1.02	10.733	3.05	16.733	1.02	22.73	0.51
4.750	1.02	10.750	3.05	16.750	1.02	22.75	0.51
4.767	1.02	10.767	3.05	16.767	1.02	22.77	0.51
4.783	1.02	10.783	3.05	16.783	1.02	22.78	0.51
4.800	1.02	10.800	3.05	16.800	1.02	22.80	0.51
4.817	1.02	10.817	3.05	16.817	1.02	22.82	0.51
4.833	1.02	10.833	3.05	16.833	1.02	22.83	0.51
4.850	1.02	10.850	3.05	16.850	1.02	22.85	0.51
4.867	1.02	10.867	3.05	16.867	1.02	22.87	0.51
4.883	1.02	10.883	3.05	16.883	1.02	22.88	0.51
4.900	1.02	10.900	3.05	16.900	1.02	22.90	0.51
4.917	1.02	10.917	3.05	16.917	1.02	22.92	0.51
4.933	1.02	10.933	3.05	16.933	1.02	22.93	0.51
4.950	1.02	10.950	3.05	16.950	1.02	22.95	0.51
4.967	1.02	10.967	3.05	16.967	1.02	22.97	0.51
4.983	1.02	10.983	3.05	16.983	1.02	22.98	0.51
5.000	1.02	11.000	3.05	17.000	1.02	23.00	0.51
5.017	1.02	11.017	4.06	17.017	1.02	23.02	0.51
5.033	1.02	11.033	4.06	17.033	1.02	23.03	0.51
5.050	1.02	11.050	4.06	17.050	1.02	23.05	0.51
5.067	1.02	11.067	4.06	17.067	1.02	23.07	0.51
5.083	1.02	11.083	4.06	17.083	1.02	23.08	0.51
5.100	1.02	11.100	4.06	17.100	1.02	23.10	0.51
5.117	1.02	11.117	4.06	17.117	1.02	23.12	0.51

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5.133    1.02 |11.133    4.06 |17.133    1.02 | 23.13    0.51
5.150    1.02 |11.150    4.06 |17.150    1.02 | 23.15    0.51
5.167    1.02 |11.167    4.06 |17.167    1.02 | 23.17    0.51
5.183    1.02 |11.183    4.06 |17.183    1.02 | 23.18    0.51
5.200    1.02 |11.200    4.06 |17.200    1.02 | 23.20    0.51
5.217    1.02 |11.217    5.84 |17.217    1.02 | 23.22    0.51
5.233    1.02 |11.233    5.84 |17.233    1.02 | 23.23    0.51
5.250    1.02 |11.250    5.84 |17.250    1.02 | 23.25    0.51
5.267    1.02 |11.267    5.84 |17.267    1.02 | 23.27    0.51
5.283    1.02 |11.283    5.84 |17.283    1.02 | 23.28    0.51
5.300    1.02 |11.300    5.84 |17.300    1.02 | 23.30    0.51
5.317    1.02 |11.317    5.84 |17.317    1.02 | 23.32    0.51
5.333    1.02 |11.333    5.84 |17.333    1.02 | 23.33    0.51
5.350    1.02 |11.350    5.84 |17.350    1.02 | 23.35    0.51
5.367    1.02 |11.367    5.84 |17.367    1.02 | 23.37    0.51
5.383    1.02 |11.383    5.84 |17.383    1.02 | 23.38    0.51
5.400    1.02 |11.400    5.84 |17.400    1.02 | 23.40    0.51
5.417    1.02 |11.417   13.21 |17.417    1.02 | 23.42    0.51
5.433    1.02 |11.433   13.21 |17.433    1.02 | 23.43    0.51
5.450    1.02 |11.450   13.21 |17.450    1.02 | 23.45    0.51
5.467    1.02 |11.467   13.21 |17.467    1.02 | 23.47    0.51
5.483    1.02 |11.483   13.21 |17.483    1.02 | 23.48    0.51
5.500    1.02 |11.500   13.21 |17.500    1.02 | 23.50    0.51
5.517    1.02 |11.517   13.21 |17.517    1.02 | 23.52    0.51
5.533    1.02 |11.533   13.21 |17.533    1.02 | 23.53    0.51
5.550    1.02 |11.550   13.21 |17.550    1.02 | 23.55    0.51
5.567    1.02 |11.567   13.21 |17.567    1.02 | 23.57    0.51
5.583    1.02 |11.583   13.21 |17.583    1.02 | 23.58    0.51
5.600    1.02 |11.600   13.21 |17.600    1.02 | 23.60    0.51
5.617    1.02 |11.617   28.95 |17.617    1.02 | 23.62    0.51
5.633    1.02 |11.633   28.96 |17.633    1.02 | 23.63    0.51
5.650    1.02 |11.650   28.96 |17.650    1.02 | 23.65    0.51
5.667    1.02 |11.667   28.96 |17.667    1.02 | 23.67    0.51
5.683    1.02 |11.683   28.96 |17.683    1.02 | 23.68    0.51
5.700    1.02 |11.700   28.96 |17.700    1.02 | 23.70    0.51
5.717    1.02 |11.717   28.96 |17.717    1.02 | 23.72    0.51
5.733    1.02 |11.733   28.96 |17.733    1.02 | 23.73    0.51
5.750    1.02 |11.750   28.96 |17.750    1.02 | 23.75    0.51
5.767    1.02 |11.767   28.96 |17.767    1.02 | 23.77    0.51
5.783    1.02 |11.783   28.96 |17.783    1.02 | 23.78    0.51
5.800    1.02 |11.800   28.96 |17.800    1.02 | 23.80    0.51
5.817    1.02 |11.817   60.43 |17.817    1.02 | 23.82    0.51
5.833    1.02 |11.833   60.45 |17.833    1.02 | 23.83    0.51
5.850    1.02 |11.850   60.45 |17.850    1.02 | 23.85    0.51
5.867    1.02 |11.867   60.45 |17.867    1.02 | 23.87    0.51
5.883    1.02 |11.883   60.45 |17.883    1.02 | 23.88    0.51
5.900    1.02 |11.900   60.45 |17.900    1.02 | 23.90    0.51
5.917    1.02 |11.917   60.45 |17.917    1.02 | 23.92    0.51
5.933    1.02 |11.933   60.45 |17.933    1.02 | 23.93    0.51
5.950    1.02 |11.950   60.45 |17.950    1.02 | 23.95    0.51
5.967    1.02 |11.967   60.45 |17.967    1.02 | 23.97    0.51
5.983    1.02 |11.983   60.45 |17.983    1.02 | 23.98    0.51
6.000    1.02 |12.000   60.45 |18.000    1.02 | 24.00    0.51

     Max.Eff.Inten.(mm/hr)=      60.45        37.55
               over (min)         5.00         4.00
     Storage Coeff.  (min)=       1.92 (ii)    3.29 (ii)
     Unit Hyd. Tpeak (min)=       5.00         4.00
     Unit Hyd. peak  (cms)=       0.38         0.32
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.02         0.00          0.025 (iii)
     TIME TO PEAK    (hrs)=      12.00        12.00          12.00
     RUNOFF VOLUME    (mm)=      51.14        26.86          50.89
     TOTAL RAINFALL   (mm)=      52.14        52.14          52.14
     RUNOFF COEFFICIENT   =       0.98         0.52           0.98


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  85.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR(  0103)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0250      0.0040
                          0.0130     0.0020   |   0.0380      0.0059

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2014)      0.148      0.025     12.00      50.89
   OUTFLOW: ID= 1 (  0103)      0.148      0.013     12.08      50.69

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 50.83
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0019

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
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| CALIB            |
| STANDHYD (  2013)|   Area    (ha)=   0.31
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
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                             IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.31         0.00
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Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	65.00	40.00	
Mannings n =	0.013	0.250	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.51	6.017	1.02	12.017	10.70	18.02	0.76
0.033	0.51	6.033	1.02	12.033	10.67	18.03	0.76
0.050	0.51	6.050	1.02	12.050	10.67	18.05	0.76
0.067	0.51	6.067	1.02	12.067	10.67	18.07	0.76
0.083	0.51	6.083	1.02	12.083	10.67	18.08	0.76
0.100	0.51	6.100	1.02	12.100	10.67	18.10	0.76
0.117	0.51	6.117	1.02	12.117	10.67	18.12	0.76
0.133	0.51	6.133	1.02	12.133	10.67	18.13	0.76
0.150	0.51	6.150	1.02	12.150	10.67	18.15	0.76
0.167	0.51	6.167	1.02	12.167	10.67	18.17	0.76
0.183	0.51	6.183	1.02	12.183	10.67	18.18	0.76
0.200	0.51	6.200	1.02	12.200	10.67	18.20	0.76
0.217	0.51	6.217	1.02	12.217	6.60	18.22	0.76
0.233	0.51	6.233	1.02	12.233	6.60	18.23	0.76
0.250	0.51	6.250	1.02	12.250	6.60	18.25	0.76
0.267	0.51	6.267	1.02	12.267	6.60	18.27	0.76
0.283	0.51	6.283	1.02	12.283	6.60	18.28	0.76
0.300	0.51	6.300	1.02	12.300	6.60	18.30	0.76
0.317	0.51	6.317	1.02	12.317	6.60	18.32	0.76
0.333	0.51	6.333	1.02	12.333	6.60	18.33	0.76
0.350	0.51	6.350	1.02	12.350	6.60	18.35	0.76
0.367	0.51	6.367	1.02	12.367	6.60	18.37	0.76
0.383	0.51	6.383	1.02	12.383	6.60	18.38	0.76
0.400	0.51	6.400	1.02	12.400	6.60	18.40	0.76
0.417	0.51	6.417	1.02	12.417	4.83	18.42	0.76
0.433	0.51	6.433	1.02	12.433	4.83	18.43	0.76
0.450	0.51	6.450	1.02	12.450	4.83	18.45	0.76
0.467	0.51	6.467	1.02	12.467	4.83	18.47	0.76
0.483	0.51	6.483	1.02	12.483	4.83	18.48	0.76
0.500	0.51	6.500	1.02	12.500	4.83	18.50	0.76
0.517	0.51	6.517	1.02	12.517	4.83	18.52	0.76
0.533	0.51	6.533	1.02	12.533	4.83	18.53	0.76
0.550	0.51	6.550	1.02	12.550	4.83	18.55	0.76
0.567	0.51	6.567	1.02	12.567	4.83	18.57	0.76
0.583	0.51	6.583	1.02	12.583	4.83	18.58	0.76
0.600	0.51	6.600	1.02	12.600	4.83	18.60	0.76
0.617	0.51	6.617	1.02	12.617	4.57	18.62	0.76
0.633	0.51	6.633	1.02	12.633	4.57	18.63	0.76
0.650	0.51	6.650	1.02	12.650	4.57	18.65	0.76
0.667	0.51	6.667	1.02	12.667	4.57	18.67	0.76
0.683	0.51	6.683	1.02	12.683	4.57	18.68	0.76
0.700	0.51	6.700	1.02	12.700	4.57	18.70	0.76
0.717	0.51	6.717	1.02	12.717	4.57	18.72	0.76
0.733	0.51	6.733	1.02	12.733	4.57	18.73	0.76
0.750	0.51	6.750	1.02	12.750	4.57	18.75	0.76
0.767	0.51	6.767	1.02	12.767	4.57	18.77	0.76
0.783	0.51	6.783	1.02	12.783	4.57	18.78	0.76
0.800	0.51	6.800	1.02	12.800	4.57	18.80	0.76
0.817	0.51	6.817	1.02	12.817	3.30	18.82	0.76
0.833	0.51	6.833	1.02	12.833	3.30	18.83	0.76
0.850	0.51	6.850	1.02	12.850	3.30	18.85	0.76
0.867	0.51	6.867	1.02	12.867	3.30	18.87	0.76
0.883	0.51	6.883	1.02	12.883	3.30	18.88	0.76
0.900	0.51	6.900	1.02	12.900	3.30	18.90	0.76
0.917	0.51	6.917	1.02	12.917	3.30	18.92	0.76
0.933	0.51	6.933	1.02	12.933	3.30	18.93	0.76
0.950	0.51	6.950	1.02	12.950	3.30	18.95	0.76
0.967	0.51	6.967	1.02	12.967	3.30	18.97	0.76
0.983	0.51	6.983	1.02	12.983	3.30	18.98	0.76
1.000	0.51	7.000	1.02	13.000	3.30	19.00	0.76
1.017	0.51	7.017	1.02	13.017	2.79	19.02	0.76
1.033	0.51	7.033	1.02	13.033	2.79	19.03	0.76
1.050	0.51	7.050	1.02	13.050	2.79	19.05	0.76
1.067	0.51	7.067	1.02	13.067	2.79	19.07	0.76
1.083	0.51	7.083	1.02	13.083	2.79	19.08	0.76
1.100	0.51	7.100	1.02	13.100	2.79	19.10	0.76
1.117	0.51	7.117	1.02	13.117	2.79	19.12	0.76
1.133	0.51	7.133	1.02	13.133	2.79	19.13	0.76
1.150	0.51	7.150	1.02	13.150	2.79	19.15	0.76
1.167	0.51	7.167	1.02	13.167	2.79	19.17	0.76
1.183	0.51	7.183	1.02	13.183	2.79	19.18	0.76
1.200	0.51	7.200	1.02	13.200	2.79	19.20	0.76
1.217	0.51	7.217	1.02	13.217	2.79	19.22	0.76
1.233	0.51	7.233	1.02	13.233	2.79	19.23	0.76
1.250	0.51	7.250	1.02	13.250	2.79	19.25	0.76
1.267	0.51	7.267	1.02	13.267	2.79	19.27	0.76
1.283	0.51	7.283	1.02	13.283	2.79	19.28	0.76
1.300	0.51	7.300	1.02	13.300	2.79	19.30	0.76
1.317	0.51	7.317	1.02	13.317	2.79	19.32	0.76
1.333	0.51	7.333	1.02	13.333	2.79	19.33	0.76
1.350	0.51	7.350	1.02	13.350	2.79	19.35	0.76
1.367	0.51	7.367	1.02	13.367	2.79	19.37	0.76
1.383	0.51	7.383	1.02	13.383	2.79	19.38	0.76
1.400	0.51	7.400	1.02	13.400	2.79	19.40	0.76
1.417	0.51	7.417	1.02	13.417	2.79	19.42	0.76
1.433	0.51	7.433	1.02	13.433	2.79	19.43	0.76
1.450	0.51	7.450	1.02	13.450	2.79	19.45	0.76
1.467	0.51	7.467	1.02	13.467	2.79	19.47	0.76
1.483	0.51	7.483	1.02	13.483	2.79	19.48	0.76

1.500	0.51	7.500	1.02	13.500	2.79	19.50	0.76
1.517	0.51	7.517	1.02	13.517	2.79	19.52	0.76
1.533	0.51	7.533	1.02	13.533	2.79	19.53	0.76
1.550	0.51	7.550	1.02	13.550	2.79	19.55	0.76
1.567	0.51	7.567	1.02	13.567	2.79	19.57	0.76
1.583	0.51	7.583	1.02	13.583	2.79	19.58	0.76
1.600	0.51	7.600	1.02	13.600	2.79	19.60	0.76
1.617	0.51	7.617	1.02	13.617	2.79	19.62	0.76
1.633	0.51	7.633	1.02	13.633	2.79	19.63	0.76
1.650	0.51	7.650	1.02	13.650	2.79	19.65	0.76
1.667	0.51	7.667	1.02	13.667	2.79	19.67	0.76
1.683	0.51	7.683	1.02	13.683	2.79	19.68	0.76
1.700	0.51	7.700	1.02	13.700	2.79	19.70	0.76
1.717	0.51	7.717	1.02	13.717	2.79	19.72	0.76
1.733	0.51	7.733	1.02	13.733	2.79	19.73	0.76
1.750	0.51	7.750	1.02	13.750	2.79	19.75	0.76
1.767	0.51	7.767	1.02	13.767	2.79	19.77	0.76
1.783	0.51	7.783	1.02	13.783	2.79	19.78	0.76
1.800	0.51	7.800	1.02	13.800	2.79	19.80	0.76
1.817	0.51	7.817	1.02	13.817	2.79	19.82	0.76
1.833	0.51	7.833	1.02	13.833	2.79	19.83	0.76
1.850	0.51	7.850	1.02	13.850	2.79	19.85	0.76
1.867	0.51	7.867	1.02	13.867	2.79	19.87	0.76
1.883	0.51	7.883	1.02	13.883	2.79	19.88	0.76
1.900	0.51	7.900	1.02	13.900	2.79	19.90	0.76
1.917	0.51	7.917	1.02	13.917	2.79	19.92	0.76
1.933	0.51	7.933	1.02	13.933	2.79	19.93	0.76
1.950	0.51	7.950	1.02	13.950	2.79	19.95	0.76
1.967	0.51	7.967	1.02	13.967	2.79	19.97	0.76
1.983	0.51	7.983	1.02	13.983	2.79	19.98	0.76
2.000	0.51	8.000	1.02	14.000	2.79	20.00	0.76
2.017	0.51	8.017	1.52	14.017	1.52	20.02	0.51
2.033	0.51	8.033	1.52	14.033	1.52	20.03	0.51
2.050	0.51	8.050	1.52	14.050	1.52	20.05	0.51
2.067	0.51	8.067	1.52	14.067	1.52	20.07	0.51
2.083	0.51	8.083	1.52	14.083	1.52	20.08	0.51
2.100	0.51	8.100	1.52	14.100	1.52	20.10	0.51
2.117	0.51	8.117	1.52	14.117	1.52	20.12	0.51
2.133	0.51	8.133	1.52	14.133	1.52	20.13	0.51
2.150	0.51	8.150	1.52	14.150	1.52	20.15	0.51
2.167	0.51	8.167	1.52	14.167	1.52	20.17	0.51
2.183	0.51	8.183	1.52	14.183	1.52	20.18	0.51
2.200	0.51	8.200	1.52	14.200	1.52	20.20	0.51
2.217	0.51	8.217	1.52	14.217	1.52	20.22	0.51
2.233	0.51	8.233	1.52	14.233	1.52	20.23	0.51
2.250	0.51	8.250	1.52	14.250	1.52	20.25	0.51
2.267	0.51	8.267	1.52	14.267	1.52	20.27	0.51
2.283	0.51	8.283	1.52	14.283	1.52	20.28	0.51
2.300	0.51	8.300	1.52	14.300	1.52	20.30	0.51
2.317	0.51	8.317	1.52	14.317	1.52	20.32	0.51
2.333	0.51	8.333	1.52	14.333	1.52	20.33	0.51
2.350	0.51	8.350	1.52	14.350	1.52	20.35	0.51
2.367	0.51	8.367	1.52	14.367	1.52	20.37	0.51
2.383	0.51	8.383	1.52	14.383	1.52	20.38	0.51
2.400	0.51	8.400	1.52	14.400	1.52	20.40	0.51
2.417	0.51	8.417	1.52	14.417	1.52	20.42	0.51
2.433	0.51	8.433	1.52	14.433	1.52	20.43	0.51
2.450	0.51	8.450	1.52	14.450	1.52	20.45	0.51
2.467	0.51	8.467	1.52	14.467	1.52	20.47	0.51
2.483	0.51	8.483	1.52	14.483	1.52	20.48	0.51
2.500	0.51	8.500	1.52	14.500	1.52	20.50	0.51
2.517	0.51	8.517	1.52	14.517	1.52	20.52	0.51
2.533	0.51	8.533	1.52	14.533	1.52	20.53	0.51
2.550	0.51	8.550	1.52	14.550	1.52	20.55	0.51
2.567	0.51	8.567	1.52	14.567	1.52	20.57	0.51
2.583	0.51	8.583	1.52	14.583	1.52	20.58	0.51
2.600	0.51	8.600	1.52	14.600	1.52	20.60	0.51
2.617	0.51	8.617	1.52	14.617	1.52	20.62	0.51
2.633	0.51	8.633	1.52	14.633	1.52	20.63	0.51
2.650	0.51	8.650	1.52	14.650	1.52	20.65	0.51
2.667	0.51	8.667	1.52	14.667	1.52	20.67	0.51
2.683	0.51	8.683	1.52	14.683	1.52	20.68	0.51
2.700	0.51	8.700	1.52	14.700	1.52	20.70	0.51
2.717	0.51	8.717	1.52	14.717	1.52	20.72	0.51
2.733	0.51	8.733	1.52	14.733	1.52	20.73	0.51
2.750	0.51	8.750	1.52	14.750	1.52	20.75	0.51
2.767	0.51	8.767	1.52	14.767	1.52	20.77	0.51
2.783	0.51	8.783	1.52	14.783	1.52	20.78	0.51
2.800	0.51	8.800	1.52	14.800	1.52	20.80	0.51
2.817	0.51	8.817	1.52	14.817	1.52	20.82	0.51
2.833	0.51	8.833	1.52	14.833	1.52	20.83	0.51
2.850	0.51	8.850	1.52	14.850	1.52	20.85	0.51
2.867	0.51	8.867	1.52	14.867	1.52	20.87	0.51
2.883	0.51	8.883	1.52	14.883	1.52	20.88	0.51
2.900	0.51	8.900	1.52	14.900	1.52	20.90	0.51
2.917	0.51	8.917	1.52	14.917	1.52	20.92	0.51
2.933	0.51	8.933	1.52	14.933	1.52	20.93	0.51
2.950	0.51	8.950	1.52	14.950	1.52	20.95	0.51
2.967	0.51	8.967	1.52	14.967	1.52	20.97	0.51
2.983	0.51	8.983	1.52	14.983	1.52	20.98	0.51
3.000	0.51	9.000	1.52	15.000	1.52	21.00	0.51
3.017	0.51	9.017	1.52	15.017	1.52	21.02	0.51
3.033	0.51	9.033	1.52	15.033	1.52	21.03	0.51
3.050	0.51	9.050	1.52	15.050	1.52	21.05	0.51
3.067	0.51	9.067	1.52	15.067	1.52	21.07	0.51
3.083	0.51	9.083	1.52	15.083	1.52	21.08	0.51
3.100	0.51	9.100	1.52	15.100	1.52	21.10	0.51
3.117	0.51	9.117	1.52	15.117	1.52	21.12	0.51
3.133	0.51	9.133	1.52	15.133	1.52	21.13	0.51
3.150	0.51	9.150	1.52	15.150	1.52	21.15	0.51

3.167	0.51	9.167	1.52	15.167	1.52	21.17	0.51
3.183	0.51	9.183	1.52	15.183	1.52	21.18	0.51
3.200	0.51	9.200	1.52	15.200	1.52	21.20	0.51
3.217	0.51	9.217	1.52	15.217	1.52	21.22	0.51
3.233	0.51	9.233	1.52	15.233	1.52	21.23	0.51
3.250	0.51	9.250	1.52	15.250	1.52	21.25	0.51
3.267	0.51	9.267	1.52	15.267	1.52	21.27	0.51
3.283	0.51	9.283	1.52	15.283	1.52	21.28	0.51
3.300	0.51	9.300	1.52	15.300	1.52	21.30	0.51
3.317	0.51	9.317	1.52	15.317	1.52	21.32	0.51
3.333	0.51	9.333	1.52	15.333	1.52	21.33	0.51
3.350	0.51	9.350	1.52	15.350	1.52	21.35	0.51
3.367	0.51	9.367	1.52	15.367	1.52	21.37	0.51
3.383	0.51	9.383	1.52	15.383	1.52	21.38	0.51
3.400	0.51	9.400	1.52	15.400	1.52	21.40	0.51
3.417	0.51	9.417	1.52	15.417	1.52	21.42	0.51
3.433	0.51	9.433	1.52	15.433	1.52	21.43	0.51
3.450	0.51	9.450	1.52	15.450	1.52	21.45	0.51
3.467	0.51	9.467	1.52	15.467	1.52	21.47	0.51
3.483	0.51	9.483	1.52	15.483	1.52	21.48	0.51
3.500	0.51	9.500	1.52	15.500	1.52	21.50	0.51
3.517	0.51	9.517	1.52	15.517	1.52	21.52	0.51
3.533	0.51	9.533	1.52	15.533	1.52	21.53	0.51
3.550	0.51	9.550	1.52	15.550	1.52	21.55	0.51
3.567	0.51	9.567	1.52	15.567	1.52	21.57	0.51
3.583	0.51	9.583	1.52	15.583	1.52	21.58	0.51
3.600	0.51	9.600	1.52	15.600	1.52	21.60	0.51
3.617	0.51	9.617	1.52	15.617	1.52	21.62	0.51
3.633	0.51	9.633	1.52	15.633	1.52	21.63	0.51
3.650	0.51	9.650	1.52	15.650	1.52	21.65	0.51
3.667	0.51	9.667	1.52	15.667	1.52	21.67	0.51
3.683	0.51	9.683	1.52	15.683	1.52	21.68	0.51
3.700	0.51	9.700	1.52	15.700	1.52	21.70	0.51
3.717	0.51	9.717	1.52	15.717	1.52	21.72	0.51
3.733	0.51	9.733	1.52	15.733	1.52	21.73	0.51
3.750	0.51	9.750	1.52	15.750	1.52	21.75	0.51
3.767	0.51	9.767	1.52	15.767	1.52	21.77	0.51
3.783	0.51	9.783	1.52	15.783	1.52	21.78	0.51
3.800	0.51	9.800	1.52	15.800	1.52	21.80	0.51
3.817	0.51	9.817	1.52	15.817	1.52	21.82	0.51
3.833	0.51	9.833	1.52	15.833	1.52	21.83	0.51
3.850	0.51	9.850	1.52	15.850	1.52	21.85	0.51
3.867	0.51	9.867	1.52	15.867	1.52	21.87	0.51
3.883	0.51	9.883	1.52	15.883	1.52	21.88	0.51
3.900	0.51	9.900	1.52	15.900	1.52	21.90	0.51
3.917	0.51	9.917	1.52	15.917	1.52	21.92	0.51
3.933	0.51	9.933	1.52	15.933	1.52	21.93	0.51
3.950	0.51	9.950	1.52	15.950	1.52	21.95	0.51
3.967	0.51	9.967	1.52	15.967	1.52	21.97	0.51
3.983	0.51	9.983	1.52	15.983	1.52	21.98	0.51

4.000	0.51	10.000	1.52	16.000	1.52	22.00	0.51
4.017	1.02	10.017	3.05	16.017	1.02	22.02	0.51
4.033	1.02	10.033	3.05	16.033	1.02	22.03	0.51
4.050	1.02	10.050	3.05	16.050	1.02	22.05	0.51
4.067	1.02	10.067	3.05	16.067	1.02	22.07	0.51
4.083	1.02	10.083	3.05	16.083	1.02	22.08	0.51
4.100	1.02	10.100	3.05	16.100	1.02	22.10	0.51
4.117	1.02	10.117	3.05	16.117	1.02	22.12	0.51
4.133	1.02	10.133	3.05	16.133	1.02	22.13	0.51
4.150	1.02	10.150	3.05	16.150	1.02	22.15	0.51
4.167	1.02	10.167	3.05	16.167	1.02	22.17	0.51
4.183	1.02	10.183	3.05	16.183	1.02	22.18	0.51
4.200	1.02	10.200	3.05	16.200	1.02	22.20	0.51
4.217	1.02	10.217	3.05	16.217	1.02	22.22	0.51
4.233	1.02	10.233	3.05	16.233	1.02	22.23	0.51
4.250	1.02	10.250	3.05	16.250	1.02	22.25	0.51
4.267	1.02	10.267	3.05	16.267	1.02	22.27	0.51
4.283	1.02	10.283	3.05	16.283	1.02	22.28	0.51
4.300	1.02	10.300	3.05	16.300	1.02	22.30	0.51
4.317	1.02	10.317	3.05	16.317	1.02	22.32	0.51
4.333	1.02	10.333	3.05	16.333	1.02	22.33	0.51
4.350	1.02	10.350	3.05	16.350	1.02	22.35	0.51
4.367	1.02	10.367	3.05	16.367	1.02	22.37	0.51
4.383	1.02	10.383	3.05	16.383	1.02	22.38	0.51
4.400	1.02	10.400	3.05	16.400	1.02	22.40	0.51
4.417	1.02	10.417	3.05	16.417	1.02	22.42	0.51
4.433	1.02	10.433	3.05	16.433	1.02	22.43	0.51
4.450	1.02	10.450	3.05	16.450	1.02	22.45	0.51
4.467	1.02	10.467	3.05	16.467	1.02	22.47	0.51
4.483	1.02	10.483	3.05	16.483	1.02	22.48	0.51
4.500	1.02	10.500	3.05	16.500	1.02	22.50	0.51
4.517	1.02	10.517	3.05	16.517	1.02	22.52	0.51
4.533	1.02	10.533	3.05	16.533	1.02	22.53	0.51
4.550	1.02	10.550	3.05	16.550	1.02	22.55	0.51
4.567	1.02	10.567	3.05	16.567	1.02	22.57	0.51
4.583	1.02	10.583	3.05	16.583	1.02	22.58	0.51
4.600	1.02	10.600	3.05	16.600	1.02	22.60	0.51
4.617	1.02	10.617	3.05	16.617	1.02	22.62	0.51
4.633	1.02	10.633	3.05	16.633	1.02	22.63	0.51
4.650	1.02	10.650	3.05	16.650	1.02	22.65	0.51
4.667	1.02	10.667	3.05	16.667	1.02	22.67	0.51
4.683	1.02	10.683	3.05	16.683	1.02	22.68	0.51
4.700	1.02	10.700	3.05	16.700	1.02	22.70	0.51
4.717	1.02	10.717	3.05	16.717	1.02	22.72	0.51
4.733	1.02	10.733	3.05	16.733	1.02	22.73	0.51
4.750	1.02	10.750	3.05	16.750	1.02	22.75	0.51
4.767	1.02	10.767	3.05	16.767	1.02	22.77	0.51
4.783	1.02	10.783	3.05	16.783	1.02	22.78	0.51
4.800	1.02	10.800	3.05	16.800	1.02	22.80	0.51
4.817	1.02	10.817	3.05	16.817	1.02	22.82	0.51

4.833	1.02	10.833	3.05	16.833	1.02	22.83	0.51
4.850	1.02	10.850	3.05	16.850	1.02	22.85	0.51
4.867	1.02	10.867	3.05	16.867	1.02	22.87	0.51
4.883	1.02	10.883	3.05	16.883	1.02	22.88	0.51
4.900	1.02	10.900	3.05	16.900	1.02	22.90	0.51
4.917	1.02	10.917	3.05	16.917	1.02	22.92	0.51
4.933	1.02	10.933	3.05	16.933	1.02	22.93	0.51
4.950	1.02	10.950	3.05	16.950	1.02	22.95	0.51
4.967	1.02	10.967	3.05	16.967	1.02	22.97	0.51
4.983	1.02	10.983	3.05	16.983	1.02	22.98	0.51
5.000	1.02	11.000	3.05	17.000	1.02	23.00	0.51
5.017	1.02	11.017	4.06	17.017	1.02	23.02	0.51
5.033	1.02	11.033	4.06	17.033	1.02	23.03	0.51
5.050	1.02	11.050	4.06	17.050	1.02	23.05	0.51
5.067	1.02	11.067	4.06	17.067	1.02	23.07	0.51
5.083	1.02	11.083	4.06	17.083	1.02	23.08	0.51
5.100	1.02	11.100	4.06	17.100	1.02	23.10	0.51
5.117	1.02	11.117	4.06	17.117	1.02	23.12	0.51
5.133	1.02	11.133	4.06	17.133	1.02	23.13	0.51
5.150	1.02	11.150	4.06	17.150	1.02	23.15	0.51
5.167	1.02	11.167	4.06	17.167	1.02	23.17	0.51
5.183	1.02	11.183	4.06	17.183	1.02	23.18	0.51
5.200	1.02	11.200	4.06	17.200	1.02	23.20	0.51
5.217	1.02	11.217	5.84	17.217	1.02	23.22	0.51
5.233	1.02	11.233	5.84	17.233	1.02	23.23	0.51
5.250	1.02	11.250	5.84	17.250	1.02	23.25	0.51
5.267	1.02	11.267	5.84	17.267	1.02	23.27	0.51
5.283	1.02	11.283	5.84	17.283	1.02	23.28	0.51
5.300	1.02	11.300	5.84	17.300	1.02	23.30	0.51
5.317	1.02	11.317	5.84	17.317	1.02	23.32	0.51
5.333	1.02	11.333	5.84	17.333	1.02	23.33	0.51
5.350	1.02	11.350	5.84	17.350	1.02	23.35	0.51
5.367	1.02	11.367	5.84	17.367	1.02	23.37	0.51
5.383	1.02	11.383	5.84	17.383	1.02	23.38	0.51
5.400	1.02	11.400	5.84	17.400	1.02	23.40	0.51
5.417	1.02	11.417	13.21	17.417	1.02	23.42	0.51
5.433	1.02	11.433	13.21	17.433	1.02	23.43	0.51
5.450	1.02	11.450	13.21	17.450	1.02	23.45	0.51
5.467	1.02	11.467	13.21	17.467	1.02	23.47	0.51
5.483	1.02	11.483	13.21	17.483	1.02	23.48	0.51
5.500	1.02	11.500	13.21	17.500	1.02	23.50	0.51
5.517	1.02	11.517	13.21	17.517	1.02	23.52	0.51
5.533	1.02	11.533	13.21	17.533	1.02	23.53	0.51
5.550	1.02	11.550	13.21	17.550	1.02	23.55	0.51
5.567	1.02	11.567	13.21	17.567	1.02	23.57	0.51
5.583	1.02	11.583	13.21	17.583	1.02	23.58	0.51
5.600	1.02	11.600	13.21	17.600	1.02	23.60	0.51
5.617	1.02	11.617	28.95	17.617	1.02	23.62	0.51
5.633	1.02	11.633	28.96	17.633	1.02	23.63	0.51
5.650	1.02	11.650	28.96	17.650	1.02	23.65	0.51
5.667	1.02	11.667	28.96	17.667	1.02	23.67	0.51
5.683	1.02	11.683	28.96	17.683	1.02	23.68	0.51
5.700	1.02	11.700	28.96	17.700	1.02	23.70	0.51
5.717	1.02	11.717	28.96	17.717	1.02	23.72	0.51
5.733	1.02	11.733	28.96	17.733	1.02	23.73	0.51
5.750	1.02	11.750	28.96	17.750	1.02	23.75	0.51
5.767	1.02	11.767	28.96	17.767	1.02	23.77	0.51
5.783	1.02	11.783	28.96	17.783	1.02	23.78	0.51
5.800	1.02	11.800	28.96	17.800	1.02	23.80	0.51
5.817	1.02	11.817	60.43	17.817	1.02	23.82	0.51
5.833	1.02	11.833	60.45	17.833	1.02	23.83	0.51
5.850	1.02	11.850	60.45	17.850	1.02	23.85	0.51
5.867	1.02	11.867	60.45	17.867	1.02	23.87	0.51
5.883	1.02	11.883	60.45	17.883	1.02	23.88	0.51
5.900	1.02	11.900	60.45	17.900	1.02	23.90	0.51
5.917	1.02	11.917	60.45	17.917	1.02	23.92	0.51
5.933	1.02	11.933	60.45	17.933	1.02	23.93	0.51
5.950	1.02	11.950	60.45	17.950	1.02	23.95	0.51
5.967	1.02	11.967	60.45	17.967	1.02	23.97	0.51
5.983	1.02	11.983	60.45	17.983	1.02	23.98	0.51
6.000	1.02	12.000	60.45	18.000	1.02	24.00	0.51

Max.Eff.Inten.(mm/hr)=	60.45	37.55	
over (min)	5.00	5.00	
Storage Coeff. (min)=	2.97 (ii)	4.34 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.31	0.25	
			TOTALS
PEAK FLOW (cms)=	0.05	0.00	0.051 (iii)
TIME TO PEAK (hrs)=	12.00	12.02	12.00
RUNOFF VOLUME (mm)=	51.14	26.86	50.89
TOTAL RAINFALL (mm)=	52.14	52.14	52.14
RUNOFF COEFFICIENT =	0.98	0.52	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0102) / IN= 2---> OUT= 1 / DT= 5.0 min	OVERFLOW IS OFF			
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0440	0.0083
	0.0220	0.0041	0.0660	0.0124

```
                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2013)      0.310      0.051     12.00      50.89
   OUTFLOW: ID= 1 (  0102)      0.310      0.023     12.10      50.74

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 45.52
                  TIME SHIFT OF PEAK FLOW         (min)=  6.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0043

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 1 (  0101):     0.23   0.019    12.10    50.55
      + ID2= 2 (  0102):     0.31   0.023    12.10    50.74
        ================================================
        ID = 3 (  0001):     0.54   0.042    12.10    50.66

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 3 (  0001):     0.54   0.042    12.10    50.66
      + ID2= 2 (  0103):     0.15   0.013    12.08    50.69
        ================================================
        ID = 1 (  0001):     0.69   0.054    12.08    50.67

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0204)|   Area    (ha)=   0.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  55.00   Dir. Conn.(%)=  55.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.18         0.15
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      46.60        40.00
     Mannings n             =    0.013        0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.51	6.083	1.02	12.083	10.68	18.08	0.76
0.167	0.51	6.167	1.02	12.167	10.67	18.17	0.76
0.250	0.51	6.250	1.02	12.250	8.23	18.25	0.76
0.333	0.51	6.333	1.02	12.333	6.60	18.33	0.76
0.417	0.51	6.417	1.02	12.417	6.25	18.42	0.76
0.500	0.51	6.500	1.02	12.500	4.83	18.50	0.76
0.583	0.51	6.583	1.02	12.583	4.83	18.58	0.76
0.667	0.51	6.667	1.02	12.667	4.62	18.67	0.76
0.750	0.51	6.750	1.02	12.750	4.57	18.75	0.76
0.833	0.51	6.833	1.02	12.833	4.06	18.83	0.76
0.917	0.51	6.917	1.02	12.917	3.30	18.92	0.76
1.000	0.51	7.000	1.02	13.000	3.30	19.00	0.76
1.083	0.51	7.083	1.02	13.083	2.79	19.08	0.76
1.167	0.51	7.167	1.02	13.167	2.79	19.17	0.76
1.250	0.51	7.250	1.02	13.250	2.79	19.25	0.76
1.333	0.51	7.333	1.02	13.333	2.79	19.33	0.76
1.417	0.51	7.417	1.02	13.417	2.79	19.42	0.76
1.500	0.51	7.500	1.02	13.500	2.79	19.50	0.76
1.583	0.51	7.583	1.02	13.583	2.79	19.58	0.76
1.667	0.51	7.667	1.02	13.667	2.79	19.67	0.76
1.750	0.51	7.750	1.02	13.750	2.79	19.75	0.76
1.833	0.51	7.833	1.02	13.833	2.79	19.83	0.76
1.917	0.51	7.917	1.02	13.917	2.79	19.92	0.76
2.000	0.51	8.000	1.02	14.000	2.79	20.00	0.76
2.083	0.51	8.083	1.52	14.083	1.52	20.08	0.51
2.167	0.51	8.167	1.52	14.167	1.52	20.17	0.51
2.250	0.51	8.250	1.52	14.250	1.52	20.25	0.51
2.333	0.51	8.333	1.52	14.333	1.52	20.33	0.51
2.417	0.51	8.417	1.52	14.417	1.52	20.42	0.51
2.500	0.51	8.500	1.52	14.500	1.52	20.50	0.51
2.583	0.51	8.583	1.52	14.583	1.52	20.58	0.51
2.667	0.51	8.667	1.52	14.667	1.52	20.67	0.51
2.750	0.51	8.750	1.52	14.750	1.52	20.75	0.51
2.833	0.51	8.833	1.52	14.833	1.52	20.83	0.51
2.917	0.51	8.917	1.52	14.917	1.52	20.92	0.51
3.000	0.51	9.000	1.52	15.000	1.52	21.00	0.51
3.083	0.51	9.083	1.52	15.083	1.52	21.08	0.51
3.167	0.51	9.167	1.52	15.167	1.52	21.17	0.51
3.250	0.51	9.250	1.52	15.250	1.52	21.25	0.51
3.333	0.51	9.333	1.52	15.333	1.52	21.33	0.51
3.417	0.51	9.417	1.52	15.417	1.52	21.42	0.51
3.500	0.51	9.500	1.52	15.500	1.52	21.50	0.51
3.583	0.51	9.583	1.52	15.583	1.52	21.58	0.51
3.667	0.51	9.667	1.52	15.667	1.52	21.67	0.51
3.750	0.51	9.750	1.52	15.750	1.52	21.75	0.51
3.833	0.51	9.833	1.52	15.833	1.52	21.83	0.51
3.917	0.51	9.917	1.52	15.917	1.52	21.92	0.51

4.000	0.51	10.000	1.52	16.000	1.52	22.00	0.51
4.083	1.02	10.083	3.05	16.083	1.02	22.08	0.51
4.167	1.02	10.167	3.05	16.167	1.02	22.17	0.51
4.250	1.02	10.250	3.05	16.250	1.02	22.25	0.51
4.333	1.02	10.333	3.05	16.333	1.02	22.33	0.51
4.417	1.02	10.417	3.05	16.417	1.02	22.42	0.51
4.500	1.02	10.500	3.05	16.500	1.02	22.50	0.51
4.583	1.02	10.583	3.05	16.583	1.02	22.58	0.51
4.667	1.02	10.667	3.05	16.667	1.02	22.67	0.51
4.750	1.02	10.750	3.05	16.750	1.02	22.75	0.51
4.833	1.02	10.833	3.05	16.833	1.02	22.83	0.51
4.917	1.02	10.917	3.05	16.917	1.02	22.92	0.51
5.000	1.02	11.000	3.05	17.000	1.02	23.00	0.51
5.083	1.02	11.083	4.06	17.083	1.02	23.08	0.51
5.167	1.02	11.167	4.06	17.167	1.02	23.17	0.51
5.250	1.02	11.250	5.13	17.250	1.02	23.25	0.51
5.333	1.02	11.333	5.84	17.333	1.02	23.33	0.51
5.417	1.02	11.417	7.31	17.417	1.02	23.42	0.51
5.500	1.02	11.500	13.21	17.500	1.02	23.50	0.51
5.583	1.02	11.583	13.21	17.583	1.02	23.58	0.51
5.667	1.02	11.667	25.81	17.667	1.02	23.67	0.51
5.750	1.02	11.750	28.96	17.750	1.02	23.75	0.51
5.833	1.02	11.833	41.55	17.833	1.02	23.83	0.51
5.917	1.02	11.917	60.45	17.917	1.02	23.92	0.51
6.000	1.02	12.000	60.45	18.000	1.02	24.00	0.51

Max.Eff.Inten.(mm/hr)=	60.45	9.86	
over (min)	5.00	20.00	
Storage Coeff. (min)=	1.98 (ii)	19.81 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.31	0.06	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.032 (iii)
TIME TO PEAK (hrs)=	12.00	12.25	12.00
RUNOFF VOLUME (mm)=	51.14	9.94	32.56
TOTAL RAINFALL (mm)=	52.14	52.14	52.14
RUNOFF COEFFICIENT =	0.98	0.19	0.62

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0002)|

1 + 2 = 3		AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0001):		0.69	0.054	12.08	50.67
+ ID2= 2 (2011):		1.84	0.237	12.00	41.65
ID = 3 (0002):		2.53	0.284	12.00	44.10

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0002)|

3 + 2 = 1		AREA	QPEAK	TPEAK	R.V.
		(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0002):		2.53	0.284	12.00	44.10
+ ID2= 2 (0204):		0.33	0.032	12.00	32.56
ID = 1 (0002):		2.85	0.316	12.00	42.78

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CHAMBER(0025)| OUTFLOW: ON, UNDERDRAIN: OFF, INFIL: OFF
|IN= 2--> OUT= 3 | CHAMBER:
| DT= 5.0 min | MAX STO VOL (cu.m.)= 710.04 Bottom Area(m2) = 614.46

DEPTH (mm)	STORAGE (cu.m.)	DEPTH (mm)	STORAGE (cu.m.)
0.00	0.00	864.00	430.26
25.00	13.40	889.00	441.69
51.00	26.76	914.00	453.02
76.00	40.09	940.00	464.23
102.00	53.40	965.00	475.34
127.00	66.68	991.00	486.32
152.00	79.92	1016.00	497.18
178.00	93.14	1041.00	507.92
203.00	106.32	1067.00	518.52
229.00	119.46	1092.00	528.98
254.00	132.57	1118.00	539.29
279.00	145.64	1143.00	549.44
305.00	158.66	1168.00	559.43
330.00	171.65	1194.00	569.25
356.00	184.58	1219.00	578.88
381.00	197.47	1245.00	588.32
406.00	210.31	1270.00	597.54
432.00	223.09	1295.00	606.52
457.00	235.83	1321.00	615.24
483.00	248.51	1346.00	623.67
508.00	261.13	1372.00	631.72
533.00	273.68	1397.00	639.20

	559.00	286.18	1422.00	646.18
	584.00	298.61	1448.00	653.00
	610.00	310.97	1473.00	659.69
	635.00	323.26	1499.00	666.24
	660.00	335.48	1524.00	672.59
	686.00	347.62	1549.00	678.83
	711.00	359.68	1575.00	685.08
	737.00	371.67	1600.00	691.32
	762.00	383.57	1626.00	697.56
	787.00	395.38	1651.00	703.80
	813.00	407.10	1676.00	710.04
	838.00	418.73	0.00	0.00

DEPTH (m)	DISCHARGE (cms)	DEPTH (m)	DISCHARGE (cms)
0.000	0.000	1.255	0.504
0.455	0.000	1.355	0.535
0.555	0.178	1.455	0.564
0.655	0.252	1.555	0.591
0.755	0.309	1.655	0.617
0.855	0.356	1.755	0.643
0.955	0.399	1.855	0.667
1.055	0.437	1.955	0.690
1.155	0.472	2.055	0.713

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW:ID= 2	2.85	0.316	12.00	42.78
OUTFLOW:ID= 1	2.85	0.247	12.03	34.55
OVERFLOW:ID= 3	0.00	0.000	0.00	0.00

Volume Reduction Rate[(RVin-RVout)/RVin](%)= 19.25
Time to reach Max storage (Hr)= 12.03
Volume of water for drawdown in LID (cu.m.)= 234.87
Volume of maximum water storage (cu.m.)= 314.68
***** After simulation, water volume is not zero.

Junction Command(0034)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

Junction Command(0035)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.25	12.03	34.55
OUTFLOW: ID= 2(0035)	2.85	0.25	12.03	34.55

CALIB STANDHYD (0202) ID= 1 DT= 5.0 min	Area (ha)= 0.10 Total Imp(%)= 11.00 Dir. Conn.(%)= 11.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.09
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	25.66	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.51	6.083	1.02	12.083	10.68	18.08	0.76
0.167	0.51	6.167	1.02	12.167	10.67	18.17	0.76
0.250	0.51	6.250	1.02	12.250	8.23	18.25	0.76
0.333	0.51	6.333	1.02	12.333	6.60	18.33	0.76
0.417	0.51	6.417	1.02	12.417	6.25	18.42	0.76
0.500	0.51	6.500	1.02	12.500	4.83	18.50	0.76
0.583	0.51	6.583	1.02	12.583	4.83	18.58	0.76
0.667	0.51	6.667	1.02	12.667	4.62	18.67	0.76
0.750	0.51	6.750	1.02	12.750	4.57	18.75	0.76
0.833	0.51	6.833	1.02	12.833	4.06	18.83	0.76
0.917	0.51	6.917	1.02	12.917	3.30	18.92	0.76
1.000	0.51	7.000	1.02	13.000	3.30	19.00	0.76
1.083	0.51	7.083	1.02	13.083	2.79	19.08	0.76
1.167	0.51	7.167	1.02	13.167	2.79	19.17	0.76
1.250	0.51	7.250	1.02	13.250	2.79	19.25	0.76
1.333	0.51	7.333	1.02	13.333	2.79	19.33	0.76
1.417	0.51	7.417	1.02	13.417	2.79	19.42	0.76
1.500	0.51	7.500	1.02	13.500	2.79	19.50	0.76
1.583	0.51	7.583	1.02	13.583	2.79	19.58	0.76
1.667	0.51	7.667	1.02	13.667	2.79	19.67	0.76
1.750	0.51	7.750	1.02	13.750	2.79	19.75	0.76
1.833	0.51	7.833	1.02	13.833	2.79	19.83	0.76
1.917	0.51	7.917	1.02	13.917	2.79	19.92	0.76
2.000	0.51	8.000	1.02	14.000	2.79	20.00	0.76

2.083	0.51	8.083	1.52	14.083	1.52	20.08	0.51
2.167	0.51	8.167	1.52	14.167	1.52	20.17	0.51
2.250	0.51	8.250	1.52	14.250	1.52	20.25	0.51
2.333	0.51	8.333	1.52	14.333	1.52	20.33	0.51
2.417	0.51	8.417	1.52	14.417	1.52	20.42	0.51
2.500	0.51	8.500	1.52	14.500	1.52	20.50	0.51
2.583	0.51	8.583	1.52	14.583	1.52	20.58	0.51
2.667	0.51	8.667	1.52	14.667	1.52	20.67	0.51
2.750	0.51	8.750	1.52	14.750	1.52	20.75	0.51
2.833	0.51	8.833	1.52	14.833	1.52	20.83	0.51
2.917	0.51	8.917	1.52	14.917	1.52	20.92	0.51
3.000	0.51	9.000	1.52	15.000	1.52	21.00	0.51
3.083	0.51	9.083	1.52	15.083	1.52	21.08	0.51
3.167	0.51	9.167	1.52	15.167	1.52	21.17	0.51
3.250	0.51	9.250	1.52	15.250	1.52	21.25	0.51
3.333	0.51	9.333	1.52	15.333	1.52	21.33	0.51
3.417	0.51	9.417	1.52	15.417	1.52	21.42	0.51
3.500	0.51	9.500	1.52	15.500	1.52	21.50	0.51
3.583	0.51	9.583	1.52	15.583	1.52	21.58	0.51
3.667	0.51	9.667	1.52	15.667	1.52	21.67	0.51
3.750	0.51	9.750	1.52	15.750	1.52	21.75	0.51
3.833	0.51	9.833	1.52	15.833	1.52	21.83	0.51
3.917	0.51	9.917	1.52	15.917	1.52	21.92	0.51
4.000	0.51	10.000	1.52	16.000	1.52	22.00	0.51
4.083	1.02	10.083	3.05	16.083	1.02	22.08	0.51
4.167	1.02	10.167	3.05	16.167	1.02	22.17	0.51
4.250	1.02	10.250	3.05	16.250	1.02	22.25	0.51
4.333	1.02	10.333	3.05	16.333	1.02	22.33	0.51
4.417	1.02	10.417	3.05	16.417	1.02	22.42	0.51
4.500	1.02	10.500	3.05	16.500	1.02	22.50	0.51
4.583	1.02	10.583	3.05	16.583	1.02	22.58	0.51
4.667	1.02	10.667	3.05	16.667	1.02	22.67	0.51
4.750	1.02	10.750	3.05	16.750	1.02	22.75	0.51
4.833	1.02	10.833	3.05	16.833	1.02	22.83	0.51
4.917	1.02	10.917	3.05	16.917	1.02	22.92	0.51
5.000	1.02	11.000	3.05	17.000	1.02	23.00	0.51
5.083	1.02	11.083	4.06	17.083	1.02	23.08	0.51
5.167	1.02	11.167	4.06	17.167	1.02	23.17	0.51
5.250	1.02	11.250	5.13	17.250	1.02	23.25	0.51
5.333	1.02	11.333	5.84	17.333	1.02	23.33	0.51
5.417	1.02	11.417	7.31	17.417	1.02	23.42	0.51
5.500	1.02	11.500	13.21	17.500	1.02	23.50	0.51
5.583	1.02	11.583	13.21	17.583	1.02	23.58	0.51
5.667	1.02	11.667	25.81	17.667	1.02	23.67	0.51
5.750	1.02	11.750	28.96	17.750	1.02	23.75	0.51
5.833	1.02	11.833	41.55	17.833	1.02	23.83	0.51
5.917	1.02	11.917	60.45	17.917	1.02	23.92	0.51
6.000	1.02	12.000	60.45	18.000	1.02	24.00	0.51

Max.Eff.Inten.(mm/hr)= 60.45 9.86

over (min)	5.00	20.00	
Storage Coeff. (min)=	1.38 (ii)	19.21 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.33	0.06	
			TOTALS
PEAK FLOW (cms)=	0.00	0.00	0.003 (iii)
TIME TO PEAK (hrs)=	12.00	12.25	12.00
RUNOFF VOLUME (mm)=	51.14	9.94	12.91
TOTAL RAINFALL (mm)=	52.14	52.14	52.14
RUNOFF COEFFICIENT =	0.98	0.19	0.25

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0203) | Area (ha)= 0.05
ID= 1 DT= 5.0 min | Total Imp(%)= 27.00 Dir. Conn.(%)= 27.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.04
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	18.90	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.51	6.083	1.02	12.083	10.68	18.08	0.76
0.167	0.51	6.167	1.02	12.167	10.67	18.17	0.76
0.250	0.51	6.250	1.02	12.250	8.23	18.25	0.76
0.333	0.51	6.333	1.02	12.333	6.60	18.33	0.76
0.417	0.51	6.417	1.02	12.417	6.25	18.42	0.76
0.500	0.51	6.500	1.02	12.500	4.83	18.50	0.76
0.583	0.51	6.583	1.02	12.583	4.83	18.58	0.76
0.667	0.51	6.667	1.02	12.667	4.62	18.67	0.76
0.750	0.51	6.750	1.02	12.750	4.57	18.75	0.76
0.833	0.51	6.833	1.02	12.833	4.06	18.83	0.76

0.917	0.51	6.917	1.02	12.917	3.30	18.92	0.76
1.000	0.51	7.000	1.02	13.000	3.30	19.00	0.76
1.083	0.51	7.083	1.02	13.083	2.79	19.08	0.76
1.167	0.51	7.167	1.02	13.167	2.79	19.17	0.76
1.250	0.51	7.250	1.02	13.250	2.79	19.25	0.76
1.333	0.51	7.333	1.02	13.333	2.79	19.33	0.76
1.417	0.51	7.417	1.02	13.417	2.79	19.42	0.76
1.500	0.51	7.500	1.02	13.500	2.79	19.50	0.76
1.583	0.51	7.583	1.02	13.583	2.79	19.58	0.76
1.667	0.51	7.667	1.02	13.667	2.79	19.67	0.76
1.750	0.51	7.750	1.02	13.750	2.79	19.75	0.76
1.833	0.51	7.833	1.02	13.833	2.79	19.83	0.76
1.917	0.51	7.917	1.02	13.917	2.79	19.92	0.76
2.000	0.51	8.000	1.02	14.000	2.79	20.00	0.76
2.083	0.51	8.083	1.52	14.083	1.52	20.08	0.51
2.167	0.51	8.167	1.52	14.167	1.52	20.17	0.51
2.250	0.51	8.250	1.52	14.250	1.52	20.25	0.51
2.333	0.51	8.333	1.52	14.333	1.52	20.33	0.51
2.417	0.51	8.417	1.52	14.417	1.52	20.42	0.51
2.500	0.51	8.500	1.52	14.500	1.52	20.50	0.51
2.583	0.51	8.583	1.52	14.583	1.52	20.58	0.51
2.667	0.51	8.667	1.52	14.667	1.52	20.67	0.51
2.750	0.51	8.750	1.52	14.750	1.52	20.75	0.51
2.833	0.51	8.833	1.52	14.833	1.52	20.83	0.51
2.917	0.51	8.917	1.52	14.917	1.52	20.92	0.51
3.000	0.51	9.000	1.52	15.000	1.52	21.00	0.51
3.083	0.51	9.083	1.52	15.083	1.52	21.08	0.51
3.167	0.51	9.167	1.52	15.167	1.52	21.17	0.51
3.250	0.51	9.250	1.52	15.250	1.52	21.25	0.51
3.333	0.51	9.333	1.52	15.333	1.52	21.33	0.51
3.417	0.51	9.417	1.52	15.417	1.52	21.42	0.51
3.500	0.51	9.500	1.52	15.500	1.52	21.50	0.51
3.583	0.51	9.583	1.52	15.583	1.52	21.58	0.51
3.667	0.51	9.667	1.52	15.667	1.52	21.67	0.51
3.750	0.51	9.750	1.52	15.750	1.52	21.75	0.51
3.833	0.51	9.833	1.52	15.833	1.52	21.83	0.51
3.917	0.51	9.917	1.52	15.917	1.52	21.92	0.51
4.000	0.51	10.000	1.52	16.000	1.52	22.00	0.51
4.083	1.02	10.083	3.05	16.083	1.02	22.08	0.51
4.167	1.02	10.167	3.05	16.167	1.02	22.17	0.51
4.250	1.02	10.250	3.05	16.250	1.02	22.25	0.51
4.333	1.02	10.333	3.05	16.333	1.02	22.33	0.51
4.417	1.02	10.417	3.05	16.417	1.02	22.42	0.51
4.500	1.02	10.500	3.05	16.500	1.02	22.50	0.51
4.583	1.02	10.583	3.05	16.583	1.02	22.58	0.51
4.667	1.02	10.667	3.05	16.667	1.02	22.67	0.51
4.750	1.02	10.750	3.05	16.750	1.02	22.75	0.51
4.833	1.02	10.833	3.05	16.833	1.02	22.83	0.51
4.917	1.02	10.917	3.05	16.917	1.02	22.92	0.51
5.000	1.02	11.000	3.05	17.000	1.02	23.00	0.51
5.083	1.02	11.083	4.06	17.083	1.02	23.08	0.51
5.167	1.02	11.167	4.06	17.167	1.02	23.17	0.51
5.250	1.02	11.250	5.13	17.250	1.02	23.25	0.51
5.333	1.02	11.333	5.84	17.333	1.02	23.33	0.51
5.417	1.02	11.417	7.31	17.417	1.02	23.42	0.51
5.500	1.02	11.500	13.21	17.500	1.02	23.50	0.51
5.583	1.02	11.583	13.21	17.583	1.02	23.58	0.51
5.667	1.02	11.667	25.81	17.667	1.02	23.67	0.51
5.750	1.02	11.750	28.96	17.750	1.02	23.75	0.51
5.833	1.02	11.833	41.55	17.833	1.02	23.83	0.51
5.917	1.02	11.917	60.45	17.917	1.02	23.92	0.51
6.000	1.02	12.000	60.45	18.000	1.02	24.00	0.51

Max.Eff.Inten.(mm/hr)=	60.45	9.86	
over (min)	5.00	20.00	
Storage Coeff. (min)=	1.15 (ii)	18.98 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.34	0.06	
			TOTALS
PEAK FLOW (cms)=	0.00	0.00	0.003 (iii)
TIME TO PEAK (hrs)=	12.00	12.25	12.00
RUNOFF VOLUME (mm)=	51.14	9.94	17.91
TOTAL RAINFALL (mm)=	52.14	52.14	52.14
RUNOFF COEFFICIENT =	0.98	0.19	0.34

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0003)					
1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0202):	0.10	0.003	12.00	12.91
+ ID2= 2 (0203):	0.05	0.003	12.00	17.91
ID = 3 (0003):	0.15	0.006	12.00	14.67

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0003)				
3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.

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--------------------         (ha)    (cms)    (hrs)     (mm)
*** W A R N I N G :  HYDROGRAPH   0034 <ID= 2> IS DRY.
*** W A R N I N G :  HYDROGRAPH   0001 = HYDROGRAPH 0003
       ID1= 3 (  0003):     0.15   0.006    12.00    14.67
     + ID2= 2 (  0034):     0.00   0.000     0.00     0.00
       ================================================
       ID = 1 (  0003):     0.15   0.006    12.00    14.67

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0003):     0.15   0.006    12.00    14.67
     + ID2= 2 (  0035):     2.85   0.247    12.03    34.55
       ================================================
       ID = 3 (  0003):     3.00   0.251    12.02    33.55

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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*******************************
** SIMULATION:1.1 5Y24HSCS    **
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|    READ STORM    |    Filename: C:\Users\CAAS077425\AppD
|                  |              ata\Local\Temp\
|                  |              928a9435-1a45-4733-a537-3482c3d30588\fd57584a
| Ptotal= 62.43 mm |    Comments: 5Y24HSCS
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.76	6.00	1.27	12.00	12.19	18.00	1.27
0.20	0.76	6.20	1.27	12.20	7.62	18.20	1.27
0.40	0.76	6.40	1.27	12.40	5.59	18.40	1.27
0.60	0.76	6.60	1.27	12.60	5.08	18.60	1.27
0.80	0.76	6.80	1.27	12.80	3.81	18.80	1.27
1.00	0.76	7.00	1.27	13.00	3.05	19.00	1.02
1.20	0.76	7.20	1.27	13.20	3.05	19.20	1.02
1.40	0.76	7.40	1.27	13.40	3.05	19.40	1.02
1.60	0.76	7.60	1.27	13.60	3.05	19.60	1.02
1.80	0.76	7.80	1.27	13.80	3.05	19.80	1.02
2.00	0.76	8.00	1.78	14.00	1.78	20.00	1.02
2.20	0.76	8.20	1.78	14.20	1.78	20.20	1.02
2.40	0.76	8.40	1.78	14.40	1.78	20.40	1.02
2.60	0.76	8.60	1.78	14.60	1.78	20.60	1.02
2.80	0.76	8.80	1.78	14.80	1.78	20.80	1.02
3.00	0.76	9.00	1.78	15.00	1.78	21.00	0.76
3.20	0.76	9.20	1.78	15.20	1.78	21.20	0.76
3.40	0.76	9.40	1.78	15.40	1.78	21.40	0.76
3.60	0.76	9.60	1.78	15.60	1.78	21.60	0.76
3.80	0.76	9.80	1.78	15.80	1.78	21.80	0.76
4.00	1.27	10.00	3.30	16.00	1.27	22.00	0.76
4.20	1.27	10.20	3.30	16.20	1.27	22.20	0.76
4.40	1.27	10.40	3.30	16.40	1.27	22.40	0.76
4.60	1.27	10.60	3.30	16.60	1.27	22.60	0.76
4.80	1.27	10.80	3.30	16.80	1.27	22.80	0.76
5.00	1.27	11.00	4.57	17.00	1.27	23.00	0.76
5.20	1.27	11.20	6.60	17.20	1.27	23.20	0.76
5.40	1.27	11.40	15.24	17.40	1.27	23.40	0.76
5.60	1.27	11.60	33.27	17.60	1.27	23.60	0.76
5.80	1.27	11.80	69.60	17.80	1.27	23.80	0.76

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| CALIB            |
| STANDHYD (  2011)|   Area    (ha)=   1.84
|ID= 1 DT= 5.0 min |   Total Imp(%)=  77.00   Dir. Conn.(%)=  77.00
--------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       1.42         0.42
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     110.72        40.00
     Mannings n           =      0.013        0.250

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

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.76	6.083	1.27	12.083	12.20	18.08	1.27
0.167	0.76	6.167	1.27	12.167	12.19	18.17	1.27
0.250	0.76	6.250	1.27	12.250	9.45	18.25	1.27
0.333	0.76	6.333	1.27	12.333	7.62	18.33	1.27
0.417	0.76	6.417	1.27	12.417	7.21	18.42	1.27
0.500	0.76	6.500	1.27	12.500	5.59	18.50	1.27
0.583	0.76	6.583	1.27	12.583	5.59	18.58	1.27
0.667	0.76	6.667	1.27	12.667	5.18	18.67	1.27
0.750	0.76	6.750	1.27	12.750	5.08	18.75	1.27
0.833	0.76	6.833	1.27	12.833	4.57	18.83	1.27
0.917	0.76	6.917	1.27	12.917	3.81	18.92	1.27
1.000	0.76	7.000	1.27	13.000	3.81	19.00	1.27
1.083	0.76	7.083	1.27	13.083	3.05	19.08	1.02
1.167	0.76	7.167	1.27	13.167	3.05	19.17	1.02
1.250	0.76	7.250	1.27	13.250	3.05	19.25	1.02

1.333	0.76	7.333	1.27	13.333	3.05	19.33	1.02
1.417	0.76	7.417	1.27	13.417	3.05	19.42	1.02
1.500	0.76	7.500	1.27	13.500	3.05	19.50	1.02
1.583	0.76	7.583	1.27	13.583	3.05	19.58	1.02
1.667	0.76	7.667	1.27	13.667	3.05	19.67	1.02
1.750	0.76	7.750	1.27	13.750	3.05	19.75	1.02
1.833	0.76	7.833	1.27	13.833	3.05	19.83	1.02
1.917	0.76	7.917	1.27	13.917	3.05	19.92	1.02
2.000	0.76	8.000	1.27	14.000	3.05	20.00	1.02
2.083	0.76	8.083	1.78	14.083	1.78	20.08	1.02
2.167	0.76	8.167	1.78	14.167	1.78	20.17	1.02
2.250	0.76	8.250	1.78	14.250	1.78	20.25	1.02
2.333	0.76	8.333	1.78	14.333	1.78	20.33	1.02
2.417	0.76	8.417	1.78	14.417	1.78	20.42	1.02
2.500	0.76	8.500	1.78	14.500	1.78	20.50	1.02
2.583	0.76	8.583	1.78	14.583	1.78	20.58	1.02
2.667	0.76	8.667	1.78	14.667	1.78	20.67	1.02
2.750	0.76	8.750	1.78	14.750	1.78	20.75	1.02
2.833	0.76	8.833	1.78	14.833	1.78	20.83	1.02
2.917	0.76	8.917	1.78	14.917	1.78	20.92	1.02
3.000	0.76	9.000	1.78	15.000	1.78	21.00	1.02
3.083	0.76	9.083	1.78	15.083	1.78	21.08	0.76
3.167	0.76	9.167	1.78	15.167	1.78	21.17	0.76
3.250	0.76	9.250	1.78	15.250	1.78	21.25	0.76
3.333	0.76	9.333	1.78	15.333	1.78	21.33	0.76
3.417	0.76	9.417	1.78	15.417	1.78	21.42	0.76
3.500	0.76	9.500	1.78	15.500	1.78	21.50	0.76
3.583	0.76	9.583	1.78	15.583	1.78	21.58	0.76
3.667	0.76	9.667	1.78	15.667	1.78	21.67	0.76
3.750	0.76	9.750	1.78	15.750	1.78	21.75	0.76
3.833	0.76	9.833	1.78	15.833	1.78	21.83	0.76
3.917	0.76	9.917	1.78	15.917	1.78	21.92	0.76
4.000	0.76	10.000	1.78	16.000	1.78	22.00	0.76
4.083	1.27	10.083	3.30	16.083	1.27	22.08	0.76
4.167	1.27	10.167	3.30	16.167	1.27	22.17	0.76
4.250	1.27	10.250	3.30	16.250	1.27	22.25	0.76
4.333	1.27	10.333	3.30	16.333	1.27	22.33	0.76
4.417	1.27	10.417	3.30	16.417	1.27	22.42	0.76
4.500	1.27	10.500	3.30	16.500	1.27	22.50	0.76
4.583	1.27	10.583	3.30	16.583	1.27	22.58	0.76
4.667	1.27	10.667	3.30	16.667	1.27	22.67	0.76
4.750	1.27	10.750	3.30	16.750	1.27	22.75	0.76
4.833	1.27	10.833	3.30	16.833	1.27	22.83	0.76
4.917	1.27	10.917	3.30	16.917	1.27	22.92	0.76
5.000	1.27	11.000	3.30	17.000	1.27	23.00	0.76
5.083	1.27	11.083	4.57	17.083	1.27	23.08	0.76
5.167	1.27	11.167	4.57	17.167	1.27	23.17	0.76
5.250	1.27	11.250	5.79	17.250	1.27	23.25	0.76
5.333	1.27	11.333	6.60	17.333	1.27	23.33	0.76
5.417	1.27	11.417	8.33	17.417	1.27	23.42	0.76
5.500	1.27	11.500	15.24	17.500	1.27	23.50	0.76
5.583	1.27	11.583	15.24	17.583	1.27	23.58	0.76
5.667	1.27	11.667	29.66	17.667	1.27	23.67	0.76
5.750	1.27	11.750	33.27	17.750	1.27	23.75	0.76
5.833	1.27	11.833	47.80	17.833	1.27	23.83	0.76
5.917	1.27	11.917	69.60	17.917	1.27	23.92	0.76
6.000	1.27	12.000	69.60	18.000	1.27	24.00	0.76

Max.Eff.Inten.(mm/hr)=		69.60	15.85	
over (min)		5.00	20.00	
Storage Coeff. (min)=		3.14 (ii)	17.88 (ii)	
Unit Hyd. Tpeak (min)=		5.00	20.00	
Unit Hyd. peak (cms)=		0.27	0.06	
				TOTALS
PEAK FLOW	(cms)=	0.27	0.01	0.277 (iii)
TIME TO PEAK	(hrs)=	12.00	12.17	12.00
RUNOFF VOLUME	(mm)=	61.43	14.10	50.54
TOTAL RAINFALL	(mm)=	62.43	62.43	62.43
RUNOFF COEFFICIENT	=	0.98	0.23	0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (2012) Area (ha)= 0.23
ID= 1 DT= 1.0 min Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.23	0.00
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.50	2.00
Length	(m)=	67.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.76	6.017	1.27	12.017	12.23	18.02	1.27
0.033	0.76	6.033	1.27	12.033	12.19	18.03	1.27
0.050	0.76	6.050	1.27	12.050	12.19	18.05	1.27

0.067	0.76	6.067	1.27	12.067	12.19	18.07	1.27
0.083	0.76	6.083	1.27	12.083	12.19	18.08	1.27
0.100	0.76	6.100	1.27	12.100	12.19	18.10	1.27
0.117	0.76	6.117	1.27	12.117	12.19	18.12	1.27
0.133	0.76	6.133	1.27	12.133	12.19	18.13	1.27
0.150	0.76	6.150	1.27	12.150	12.19	18.15	1.27
0.167	0.76	6.167	1.27	12.167	12.19	18.17	1.27
0.183	0.76	6.183	1.27	12.183	12.19	18.18	1.27
0.200	0.76	6.200	1.27	12.200	12.19	18.20	1.27
0.217	0.76	6.217	1.27	12.217	7.62	18.22	1.27
0.233	0.76	6.233	1.27	12.233	7.62	18.23	1.27
0.250	0.76	6.250	1.27	12.250	7.62	18.25	1.27
0.267	0.76	6.267	1.27	12.267	7.62	18.27	1.27
0.283	0.76	6.283	1.27	12.283	7.62	18.28	1.27
0.300	0.76	6.300	1.27	12.300	7.62	18.30	1.27
0.317	0.76	6.317	1.27	12.317	7.62	18.32	1.27
0.333	0.76	6.333	1.27	12.333	7.62	18.33	1.27
0.350	0.76	6.350	1.27	12.350	7.62	18.35	1.27
0.367	0.76	6.367	1.27	12.367	7.62	18.37	1.27
0.383	0.76	6.383	1.27	12.383	7.62	18.38	1.27
0.400	0.76	6.400	1.27	12.400	7.62	18.40	1.27
0.417	0.76	6.417	1.27	12.417	5.59	18.42	1.27
0.433	0.76	6.433	1.27	12.433	5.59	18.43	1.27
0.450	0.76	6.450	1.27	12.450	5.59	18.45	1.27
0.467	0.76	6.467	1.27	12.467	5.59	18.47	1.27
0.483	0.76	6.483	1.27	12.483	5.59	18.48	1.27
0.500	0.76	6.500	1.27	12.500	5.59	18.50	1.27
0.517	0.76	6.517	1.27	12.517	5.59	18.52	1.27
0.533	0.76	6.533	1.27	12.533	5.59	18.53	1.27
0.550	0.76	6.550	1.27	12.550	5.59	18.55	1.27
0.567	0.76	6.567	1.27	12.567	5.59	18.57	1.27
0.583	0.76	6.583	1.27	12.583	5.59	18.58	1.27
0.600	0.76	6.600	1.27	12.600	5.59	18.60	1.27
0.617	0.76	6.617	1.27	12.617	5.08	18.62	1.27
0.633	0.76	6.633	1.27	12.633	5.08	18.63	1.27
0.650	0.76	6.650	1.27	12.650	5.08	18.65	1.27
0.667	0.76	6.667	1.27	12.667	5.08	18.67	1.27
0.683	0.76	6.683	1.27	12.683	5.08	18.68	1.27
0.700	0.76	6.700	1.27	12.700	5.08	18.70	1.27
0.717	0.76	6.717	1.27	12.717	5.08	18.72	1.27
0.733	0.76	6.733	1.27	12.733	5.08	18.73	1.27
0.750	0.76	6.750	1.27	12.750	5.08	18.75	1.27
0.767	0.76	6.767	1.27	12.767	5.08	18.77	1.27
0.783	0.76	6.783	1.27	12.783	5.08	18.78	1.27
0.800	0.76	6.800	1.27	12.800	5.08	18.80	1.27
0.817	0.76	6.817	1.27	12.817	3.81	18.82	1.27
0.833	0.76	6.833	1.27	12.833	3.81	18.83	1.27
0.850	0.76	6.850	1.27	12.850	3.81	18.85	1.27
0.867	0.76	6.867	1.27	12.867	3.81	18.87	1.27
0.883	0.76	6.883	1.27	12.883	3.81	18.88	1.27
0.900	0.76	6.900	1.27	12.900	3.81	18.90	1.27
0.917	0.76	6.917	1.27	12.917	3.81	18.92	1.27
0.933	0.76	6.933	1.27	12.933	3.81	18.93	1.27
0.950	0.76	6.950	1.27	12.950	3.81	18.95	1.27
0.967	0.76	6.967	1.27	12.967	3.81	18.97	1.27
0.983	0.76	6.983	1.27	12.983	3.81	18.98	1.27
1.000	0.76	7.000	1.27	13.000	3.81	19.00	1.27
1.017	0.76	7.017	1.27	13.017	3.05	19.02	1.02
1.033	0.76	7.033	1.27	13.033	3.05	19.03	1.02
1.050	0.76	7.050	1.27	13.050	3.05	19.05	1.02
1.067	0.76	7.067	1.27	13.067	3.05	19.07	1.02
1.083	0.76	7.083	1.27	13.083	3.05	19.08	1.02
1.100	0.76	7.100	1.27	13.100	3.05	19.10	1.02
1.117	0.76	7.117	1.27	13.117	3.05	19.12	1.02
1.133	0.76	7.133	1.27	13.133	3.05	19.13	1.02
1.150	0.76	7.150	1.27	13.150	3.05	19.15	1.02
1.167	0.76	7.167	1.27	13.167	3.05	19.17	1.02
1.183	0.76	7.183	1.27	13.183	3.05	19.18	1.02
1.200	0.76	7.200	1.27	13.200	3.05	19.20	1.02
1.217	0.76	7.217	1.27	13.217	3.05	19.22	1.02
1.233	0.76	7.233	1.27	13.233	3.05	19.23	1.02
1.250	0.76	7.250	1.27	13.250	3.05	19.25	1.02
1.267	0.76	7.267	1.27	13.267	3.05	19.27	1.02
1.283	0.76	7.283	1.27	13.283	3.05	19.28	1.02
1.300	0.76	7.300	1.27	13.300	3.05	19.30	1.02
1.317	0.76	7.317	1.27	13.317	3.05	19.32	1.02
1.333	0.76	7.333	1.27	13.333	3.05	19.33	1.02
1.350	0.76	7.350	1.27	13.350	3.05	19.35	1.02
1.367	0.76	7.367	1.27	13.367	3.05	19.37	1.02
1.383	0.76	7.383	1.27	13.383	3.05	19.38	1.02
1.400	0.76	7.400	1.27	13.400	3.05	19.40	1.02
1.417	0.76	7.417	1.27	13.417	3.05	19.42	1.02
1.433	0.76	7.433	1.27	13.433	3.05	19.43	1.02
1.450	0.76	7.450	1.27	13.450	3.05	19.45	1.02
1.467	0.76	7.467	1.27	13.467	3.05	19.47	1.02
1.483	0.76	7.483	1.27	13.483	3.05	19.48	1.02
1.500	0.76	7.500	1.27	13.500	3.05	19.50	1.02
1.517	0.76	7.517	1.27	13.517	3.05	19.52	1.02
1.533	0.76	7.533	1.27	13.533	3.05	19.53	1.02
1.550	0.76	7.550	1.27	13.550	3.05	19.55	1.02
1.567	0.76	7.567	1.27	13.567	3.05	19.57	1.02
1.583	0.76	7.583	1.27	13.583	3.05	19.58	1.02
1.600	0.76	7.600	1.27	13.600	3.05	19.60	1.02
1.617	0.76	7.617	1.27	13.617	3.05	19.62	1.02
1.633	0.76	7.633	1.27	13.633	3.05	19.63	1.02
1.650	0.76	7.650	1.27	13.650	3.05	19.65	1.02
1.667	0.76	7.667	1.27	13.667	3.05	19.67	1.02
1.683	0.76	7.683	1.27	13.683	3.05	19.68	1.02
1.700	0.76	7.700	1.27	13.700	3.05	19.70	1.02
1.717	0.76	7.717	1.27	13.717	3.05	19.72	1.02

1.733	0.76	7.733	1.27	13.733	3.05	19.73	1.02
1.750	0.76	7.750	1.27	13.750	3.05	19.75	1.02
1.767	0.76	7.767	1.27	13.767	3.05	19.77	1.02
1.783	0.76	7.783	1.27	13.783	3.05	19.78	1.02
1.800	0.76	7.800	1.27	13.800	3.05	19.80	1.02
1.817	0.76	7.817	1.27	13.817	3.05	19.82	1.02
1.833	0.76	7.833	1.27	13.833	3.05	19.83	1.02
1.850	0.76	7.850	1.27	13.850	3.05	19.85	1.02
1.867	0.76	7.867	1.27	13.867	3.05	19.87	1.02
1.883	0.76	7.883	1.27	13.883	3.05	19.88	1.02
1.900	0.76	7.900	1.27	13.900	3.05	19.90	1.02
1.917	0.76	7.917	1.27	13.917	3.05	19.92	1.02
1.933	0.76	7.933	1.27	13.933	3.05	19.93	1.02
1.950	0.76	7.950	1.27	13.950	3.05	19.95	1.02
1.967	0.76	7.967	1.27	13.967	3.05	19.97	1.02
1.983	0.76	7.983	1.27	13.983	3.05	19.98	1.02
2.000	0.76	8.000	1.27	14.000	3.05	20.00	1.02
2.017	0.76	8.017	1.78	14.017	1.78	20.02	1.02
2.033	0.76	8.033	1.78	14.033	1.78	20.03	1.02
2.050	0.76	8.050	1.78	14.050	1.78	20.05	1.02
2.067	0.76	8.067	1.78	14.067	1.78	20.07	1.02
2.083	0.76	8.083	1.78	14.083	1.78	20.08	1.02
2.100	0.76	8.100	1.78	14.100	1.78	20.10	1.02
2.117	0.76	8.117	1.78	14.117	1.78	20.12	1.02
2.133	0.76	8.133	1.78	14.133	1.78	20.13	1.02
2.150	0.76	8.150	1.78	14.150	1.78	20.15	1.02
2.167	0.76	8.167	1.78	14.167	1.78	20.17	1.02
2.183	0.76	8.183	1.78	14.183	1.78	20.18	1.02
2.200	0.76	8.200	1.78	14.200	1.78	20.20	1.02
2.217	0.76	8.217	1.78	14.217	1.78	20.22	1.02
2.233	0.76	8.233	1.78	14.233	1.78	20.23	1.02
2.250	0.76	8.250	1.78	14.250	1.78	20.25	1.02
2.267	0.76	8.267	1.78	14.267	1.78	20.27	1.02
2.283	0.76	8.283	1.78	14.283	1.78	20.28	1.02
2.300	0.76	8.300	1.78	14.300	1.78	20.30	1.02
2.317	0.76	8.317	1.78	14.317	1.78	20.32	1.02
2.333	0.76	8.333	1.78	14.333	1.78	20.33	1.02
2.350	0.76	8.350	1.78	14.350	1.78	20.35	1.02
2.367	0.76	8.367	1.78	14.367	1.78	20.37	1.02
2.383	0.76	8.383	1.78	14.383	1.78	20.38	1.02
2.400	0.76	8.400	1.78	14.400	1.78	20.40	1.02
2.417	0.76	8.417	1.78	14.417	1.78	20.42	1.02
2.433	0.76	8.433	1.78	14.433	1.78	20.43	1.02
2.450	0.76	8.450	1.78	14.450	1.78	20.45	1.02
2.467	0.76	8.467	1.78	14.467	1.78	20.47	1.02
2.483	0.76	8.483	1.78	14.483	1.78	20.48	1.02
2.500	0.76	8.500	1.78	14.500	1.78	20.50	1.02
2.517	0.76	8.517	1.78	14.517	1.78	20.52	1.02
2.533	0.76	8.533	1.78	14.533	1.78	20.53	1.02
2.550	0.76	8.550	1.78	14.550	1.78	20.55	1.02
2.567	0.76	8.567	1.78	14.567	1.78	20.57	1.02
2.583	0.76	8.583	1.78	14.583	1.78	20.58	1.02
2.600	0.76	8.600	1.78	14.600	1.78	20.60	1.02
2.617	0.76	8.617	1.78	14.617	1.78	20.62	1.02
2.633	0.76	8.633	1.78	14.633	1.78	20.63	1.02
2.650	0.76	8.650	1.78	14.650	1.78	20.65	1.02
2.667	0.76	8.667	1.78	14.667	1.78	20.67	1.02
2.683	0.76	8.683	1.78	14.683	1.78	20.68	1.02
2.700	0.76	8.700	1.78	14.700	1.78	20.70	1.02
2.717	0.76	8.717	1.78	14.717	1.78	20.72	1.02
2.733	0.76	8.733	1.78	14.733	1.78	20.73	1.02
2.750	0.76	8.750	1.78	14.750	1.78	20.75	1.02
2.767	0.76	8.767	1.78	14.767	1.78	20.77	1.02
2.783	0.76	8.783	1.78	14.783	1.78	20.78	1.02
2.800	0.76	8.800	1.78	14.800	1.78	20.80	1.02
2.817	0.76	8.817	1.78	14.817	1.78	20.82	1.02
2.833	0.76	8.833	1.78	14.833	1.78	20.83	1.02
2.850	0.76	8.850	1.78	14.850	1.78	20.85	1.02
2.867	0.76	8.867	1.78	14.867	1.78	20.87	1.02
2.883	0.76	8.883	1.78	14.883	1.78	20.88	1.02
2.900	0.76	8.900	1.78	14.900	1.78	20.90	1.02
2.917	0.76	8.917	1.78	14.917	1.78	20.92	1.02
2.933	0.76	8.933	1.78	14.933	1.78	20.93	1.02
2.950	0.76	8.950	1.78	14.950	1.78	20.95	1.02
2.967	0.76	8.967	1.78	14.967	1.78	20.97	1.02
2.983	0.76	8.983	1.78	14.983	1.78	20.98	1.02
3.000	0.76	9.000	1.78	15.000	1.78	21.00	1.02
3.017	0.76	9.017	1.78	15.017	1.78	21.02	0.76
3.033	0.76	9.033	1.78	15.033	1.78	21.03	0.76
3.050	0.76	9.050	1.78	15.050	1.78	21.05	0.76
3.067	0.76	9.067	1.78	15.067	1.78	21.07	0.76
3.083	0.76	9.083	1.78	15.083	1.78	21.08	0.76
3.100	0.76	9.100	1.78	15.100	1.78	21.10	0.76
3.117	0.76	9.117	1.78	15.117	1.78	21.12	0.76
3.133	0.76	9.133	1.78	15.133	1.78	21.13	0.76
3.150	0.76	9.150	1.78	15.150	1.78	21.15	0.76
3.167	0.76	9.167	1.78	15.167	1.78	21.17	0.76
3.183	0.76	9.183	1.78	15.183	1.78	21.18	0.76
3.200	0.76	9.200	1.78	15.200	1.78	21.20	0.76
3.217	0.76	9.217	1.78	15.217	1.78	21.22	0.76
3.233	0.76	9.233	1.78	15.233	1.78	21.23	0.76
3.250	0.76	9.250	1.78	15.250	1.78	21.25	0.76
3.267	0.76	9.267	1.78	15.267	1.78	21.27	0.76
3.283	0.76	9.283	1.78	15.283	1.78	21.28	0.76
3.300	0.76	9.300	1.78	15.300	1.78	21.30	0.76
3.317	0.76	9.317	1.78	15.317	1.78	21.32	0.76
3.333	0.76	9.333	1.78	15.333	1.78	21.33	0.76
3.350	0.76	9.350	1.78	15.350	1.78	21.35	0.76
3.367	0.76	9.367	1.78	15.367	1.78	21.37	0.76
3.383	0.76	9.383	1.78	15.383	1.78	21.38	0.76

3.400	0.76	9.400	1.78	15.400	1.78	21.40	0.76
3.417	0.76	9.417	1.78	15.417	1.78	21.42	0.76
3.433	0.76	9.433	1.78	15.433	1.78	21.43	0.76
3.450	0.76	9.450	1.78	15.450	1.78	21.45	0.76
3.467	0.76	9.467	1.78	15.467	1.78	21.47	0.76
3.483	0.76	9.483	1.78	15.483	1.78	21.48	0.76
3.500	0.76	9.500	1.78	15.500	1.78	21.50	0.76
3.517	0.76	9.517	1.78	15.517	1.78	21.52	0.76
3.533	0.76	9.533	1.78	15.533	1.78	21.53	0.76
3.550	0.76	9.550	1.78	15.550	1.78	21.55	0.76
3.567	0.76	9.567	1.78	15.567	1.78	21.57	0.76
3.583	0.76	9.583	1.78	15.583	1.78	21.58	0.76
3.600	0.76	9.600	1.78	15.600	1.78	21.60	0.76
3.617	0.76	9.617	1.78	15.617	1.78	21.62	0.76
3.633	0.76	9.633	1.78	15.633	1.78	21.63	0.76
3.650	0.76	9.650	1.78	15.650	1.78	21.65	0.76
3.667	0.76	9.667	1.78	15.667	1.78	21.67	0.76
3.683	0.76	9.683	1.78	15.683	1.78	21.68	0.76
3.700	0.76	9.700	1.78	15.700	1.78	21.70	0.76
3.717	0.76	9.717	1.78	15.717	1.78	21.72	0.76
3.733	0.76	9.733	1.78	15.733	1.78	21.73	0.76
3.750	0.76	9.750	1.78	15.750	1.78	21.75	0.76
3.767	0.76	9.767	1.78	15.767	1.78	21.77	0.76
3.783	0.76	9.783	1.78	15.783	1.78	21.78	0.76
3.800	0.76	9.800	1.78	15.800	1.78	21.80	0.76
3.817	0.76	9.817	1.78	15.817	1.78	21.82	0.76
3.833	0.76	9.833	1.78	15.833	1.78	21.83	0.76
3.850	0.76	9.850	1.78	15.850	1.78	21.85	0.76
3.867	0.76	9.867	1.78	15.867	1.78	21.87	0.76
3.883	0.76	9.883	1.78	15.883	1.78	21.88	0.76
3.900	0.76	9.900	1.78	15.900	1.78	21.90	0.76
3.917	0.76	9.917	1.78	15.917	1.78	21.92	0.76
3.933	0.76	9.933	1.78	15.933	1.78	21.93	0.76
3.950	0.76	9.950	1.78	15.950	1.78	21.95	0.76
3.967	0.76	9.967	1.78	15.967	1.78	21.97	0.76
3.983	0.76	9.983	1.78	15.983	1.78	21.98	0.76
4.000	0.76	10.000	1.78	16.000	1.78	22.00	0.76
4.017	1.27	10.017	3.30	16.017	1.27	22.02	0.76
4.033	1.27	10.033	3.30	16.033	1.27	22.03	0.76
4.050	1.27	10.050	3.30	16.050	1.27	22.05	0.76
4.067	1.27	10.067	3.30	16.067	1.27	22.07	0.76
4.083	1.27	10.083	3.30	16.083	1.27	22.08	0.76
4.100	1.27	10.100	3.30	16.100	1.27	22.10	0.76
4.117	1.27	10.117	3.30	16.117	1.27	22.12	0.76
4.133	1.27	10.133	3.30	16.133	1.27	22.13	0.76
4.150	1.27	10.150	3.30	16.150	1.27	22.15	0.76
4.167	1.27	10.167	3.30	16.167	1.27	22.17	0.76
4.183	1.27	10.183	3.30	16.183	1.27	22.18	0.76
4.200	1.27	10.200	3.30	16.200	1.27	22.20	0.76
4.217	1.27	10.217	3.30	16.217	1.27	22.22	0.76
4.233	1.27	10.233	3.30	16.233	1.27	22.23	0.76
4.250	1.27	10.250	3.30	16.250	1.27	22.25	0.76
4.267	1.27	10.267	3.30	16.267	1.27	22.27	0.76
4.283	1.27	10.283	3.30	16.283	1.27	22.28	0.76
4.300	1.27	10.300	3.30	16.300	1.27	22.30	0.76
4.317	1.27	10.317	3.30	16.317	1.27	22.32	0.76
4.333	1.27	10.333	3.30	16.333	1.27	22.33	0.76
4.350	1.27	10.350	3.30	16.350	1.27	22.35	0.76
4.367	1.27	10.367	3.30	16.367	1.27	22.37	0.76
4.383	1.27	10.383	3.30	16.383	1.27	22.38	0.76
4.400	1.27	10.400	3.30	16.400	1.27	22.40	0.76
4.417	1.27	10.417	3.30	16.417	1.27	22.42	0.76
4.433	1.27	10.433	3.30	16.433	1.27	22.43	0.76
4.450	1.27	10.450	3.30	16.450	1.27	22.45	0.76
4.467	1.27	10.467	3.30	16.467	1.27	22.47	0.76
4.483	1.27	10.483	3.30	16.483	1.27	22.48	0.76
4.500	1.27	10.500	3.30	16.500	1.27	22.50	0.76
4.517	1.27	10.517	3.30	16.517	1.27	22.52	0.76
4.533	1.27	10.533	3.30	16.533	1.27	22.53	0.76
4.550	1.27	10.550	3.30	16.550	1.27	22.55	0.76
4.567	1.27	10.567	3.30	16.567	1.27	22.57	0.76
4.583	1.27	10.583	3.30	16.583	1.27	22.58	0.76
4.600	1.27	10.600	3.30	16.600	1.27	22.60	0.76
4.617	1.27	10.617	3.30	16.617	1.27	22.62	0.76
4.633	1.27	10.633	3.30	16.633	1.27	22.63	0.76
4.650	1.27	10.650	3.30	16.650	1.27	22.65	0.76
4.667	1.27	10.667	3.30	16.667	1.27	22.67	0.76
4.683	1.27	10.683	3.30	16.683	1.27	22.68	0.76
4.700	1.27	10.700	3.30	16.700	1.27	22.70	0.76
4.717	1.27	10.717	3.30	16.717	1.27	22.72	0.76
4.733	1.27	10.733	3.30	16.733	1.27	22.73	0.76
4.750	1.27	10.750	3.30	16.750	1.27	22.75	0.76
4.767	1.27	10.767	3.30	16.767	1.27	22.77	0.76
4.783	1.27	10.783	3.30	16.783	1.27	22.78	0.76
4.800	1.27	10.800	3.30	16.800	1.27	22.80	0.76
4.817	1.27	10.817	3.30	16.817	1.27	22.82	0.76
4.833	1.27	10.833	3.30	16.833	1.27	22.83	0.76
4.850	1.27	10.850	3.30	16.850	1.27	22.85	0.76
4.867	1.27	10.867	3.30	16.867	1.27	22.87	0.76
4.883	1.27	10.883	3.30	16.883	1.27	22.88	0.76
4.900	1.27	10.900	3.30	16.900	1.27	22.90	0.76
4.917	1.27	10.917	3.30	16.917	1.27	22.92	0.76
4.933	1.27	10.933	3.30	16.933	1.27	22.93	0.76
4.950	1.27	10.950	3.30	16.950	1.27	22.95	0.76
4.967	1.27	10.967	3.30	16.967	1.27	22.97	0.76
4.983	1.27	10.983	3.30	16.983	1.27	22.98	0.76
5.000	1.27	11.000	3.30	17.000	1.27	23.00	0.76
5.017	1.27	11.017	4.57	17.017	1.27	23.02	0.76
5.033	1.27	11.033	4.57	17.033	1.27	23.03	0.76
5.050	1.27	11.050	4.57	17.050	1.27	23.05	0.76

5.067	1.27	11.067	4.57	17.067	1.27	23.07	0.76
5.083	1.27	11.083	4.57	17.083	1.27	23.08	0.76
5.100	1.27	11.100	4.57	17.100	1.27	23.10	0.76
5.117	1.27	11.117	4.57	17.117	1.27	23.12	0.76
5.133	1.27	11.133	4.57	17.133	1.27	23.13	0.76
5.150	1.27	11.150	4.57	17.150	1.27	23.15	0.76
5.167	1.27	11.167	4.57	17.167	1.27	23.17	0.76
5.183	1.27	11.183	4.57	17.183	1.27	23.18	0.76
5.200	1.27	11.200	4.57	17.200	1.27	23.20	0.76
5.217	1.27	11.217	6.60	17.217	1.27	23.22	0.76
5.233	1.27	11.233	6.60	17.233	1.27	23.23	0.76
5.250	1.27	11.250	6.60	17.250	1.27	23.25	0.76
5.267	1.27	11.267	6.60	17.267	1.27	23.27	0.76
5.283	1.27	11.283	6.60	17.283	1.27	23.28	0.76
5.300	1.27	11.300	6.60	17.300	1.27	23.30	0.76
5.317	1.27	11.317	6.60	17.317	1.27	23.32	0.76
5.333	1.27	11.333	6.60	17.333	1.27	23.33	0.76
5.350	1.27	11.350	6.60	17.350	1.27	23.35	0.76
5.367	1.27	11.367	6.60	17.367	1.27	23.37	0.76
5.383	1.27	11.383	6.60	17.383	1.27	23.38	0.76
5.400	1.27	11.400	6.60	17.400	1.27	23.40	0.76
5.417	1.27	11.417	15.24	17.417	1.27	23.42	0.76
5.433	1.27	11.433	15.24	17.433	1.27	23.43	0.76
5.450	1.27	11.450	15.24	17.450	1.27	23.45	0.76
5.467	1.27	11.467	15.24	17.467	1.27	23.47	0.76
5.483	1.27	11.483	15.24	17.483	1.27	23.48	0.76
5.500	1.27	11.500	15.24	17.500	1.27	23.50	0.76
5.517	1.27	11.517	15.24	17.517	1.27	23.52	0.76
5.533	1.27	11.533	15.24	17.533	1.27	23.53	0.76
5.550	1.27	11.550	15.24	17.550	1.27	23.55	0.76
5.567	1.27	11.567	15.24	17.567	1.27	23.57	0.76
5.583	1.27	11.583	15.24	17.583	1.27	23.58	0.76
5.600	1.27	11.600	15.24	17.600	1.27	23.60	0.76
5.617	1.27	11.617	33.26	17.617	1.27	23.62	0.76
5.633	1.27	11.633	33.27	17.633	1.27	23.63	0.76
5.650	1.27	11.650	33.27	17.650	1.27	23.65	0.76
5.667	1.27	11.667	33.27	17.667	1.27	23.67	0.76
5.683	1.27	11.683	33.27	17.683	1.27	23.68	0.76
5.700	1.27	11.700	33.27	17.700	1.27	23.70	0.76
5.717	1.27	11.717	33.27	17.717	1.27	23.72	0.76
5.733	1.27	11.733	33.27	17.733	1.27	23.73	0.76
5.750	1.27	11.750	33.27	17.750	1.27	23.75	0.76
5.767	1.27	11.767	33.27	17.767	1.27	23.77	0.76
5.783	1.27	11.783	33.27	17.783	1.27	23.78	0.76
5.800	1.27	11.800	33.27	17.800	1.27	23.80	0.76
5.817	1.27	11.817	69.58	17.817	1.27	23.82	0.76
5.833	1.27	11.833	69.60	17.833	1.27	23.83	0.76
5.850	1.27	11.850	69.60	17.850	1.27	23.85	0.76
5.867	1.27	11.867	69.60	17.867	1.27	23.87	0.76
5.883	1.27	11.883	69.60	17.883	1.27	23.88	0.76
5.900	1.27	11.900	69.60	17.900	1.27	23.90	0.76
5.917	1.27	11.917	69.60	17.917	1.27	23.92	0.76
5.933	1.27	11.933	69.60	17.933	1.27	23.93	0.76
5.950	1.27	11.950	69.60	17.950	1.27	23.95	0.76
5.967	1.27	11.967	69.60	17.967	1.27	23.97	0.76
5.983	1.27	11.983	69.60	17.983	1.27	23.98	0.76
6.000	1.27	12.000	69.60	18.000	1.27	24.00	0.76

Max.Eff.Inten.(mm/hr)=	69.60	18.73	
over (min)	5.00	5.00	
Storage Coeff. (min)=	2.86 (ii)	4.16 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.32	0.25	
			TOTALS
PEAK FLOW (cms)=	0.04	0.00	0.043 (iii)
TIME TO PEAK (hrs)=	12.00	12.02	12.00
RUNOFF VOLUME (mm)=	61.43	14.10	60.95
TOTAL RAINFALL (mm)=	62.43	62.43	62.43
RUNOFF COEFFICIENT =	0.98	0.23	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0101)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0380	0.0061
	0.0190	0.0030	0.0570	0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.043	12.00	60.95
OUTFLOW: ID= 1 (0101)	0.229	0.021	12.08	60.79

PEAK FLOW REDUCTION [Qout/Qin](%)= 49.66
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0034

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB	
STANDHYD (2014)	Area (ha)= 0.15

|ID= 1 DT= 1.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.15	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	31.44	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.76	6.017	1.27	12.017	12.23	18.02	1.27
0.033	0.76	6.033	1.27	12.033	12.19	18.03	1.27
0.050	0.76	6.050	1.27	12.050	12.19	18.05	1.27
0.067	0.76	6.067	1.27	12.067	12.19	18.07	1.27
0.083	0.76	6.083	1.27	12.083	12.19	18.08	1.27
0.100	0.76	6.100	1.27	12.100	12.19	18.10	1.27
0.117	0.76	6.117	1.27	12.117	12.19	18.12	1.27
0.133	0.76	6.133	1.27	12.133	12.19	18.13	1.27
0.150	0.76	6.150	1.27	12.150	12.19	18.15	1.27
0.167	0.76	6.167	1.27	12.167	12.19	18.17	1.27
0.183	0.76	6.183	1.27	12.183	12.19	18.18	1.27
0.200	0.76	6.200	1.27	12.200	12.19	18.20	1.27
0.217	0.76	6.217	1.27	12.217	7.62	18.22	1.27
0.233	0.76	6.233	1.27	12.233	7.62	18.23	1.27
0.250	0.76	6.250	1.27	12.250	7.62	18.25	1.27
0.267	0.76	6.267	1.27	12.267	7.62	18.27	1.27
0.283	0.76	6.283	1.27	12.283	7.62	18.28	1.27
0.300	0.76	6.300	1.27	12.300	7.62	18.30	1.27
0.317	0.76	6.317	1.27	12.317	7.62	18.32	1.27
0.333	0.76	6.333	1.27	12.333	7.62	18.33	1.27
0.350	0.76	6.350	1.27	12.350	7.62	18.35	1.27
0.367	0.76	6.367	1.27	12.367	7.62	18.37	1.27
0.383	0.76	6.383	1.27	12.383	7.62	18.38	1.27
0.400	0.76	6.400	1.27	12.400	7.62	18.40	1.27
0.417	0.76	6.417	1.27	12.417	5.59	18.42	1.27
0.433	0.76	6.433	1.27	12.433	5.59	18.43	1.27
0.450	0.76	6.450	1.27	12.450	5.59	18.45	1.27
0.467	0.76	6.467	1.27	12.467	5.59	18.47	1.27
0.483	0.76	6.483	1.27	12.483	5.59	18.48	1.27
0.500	0.76	6.500	1.27	12.500	5.59	18.50	1.27
0.517	0.76	6.517	1.27	12.517	5.59	18.52	1.27
0.533	0.76	6.533	1.27	12.533	5.59	18.53	1.27
0.550	0.76	6.550	1.27	12.550	5.59	18.55	1.27
0.567	0.76	6.567	1.27	12.567	5.59	18.57	1.27
0.583	0.76	6.583	1.27	12.583	5.59	18.58	1.27
0.600	0.76	6.600	1.27	12.600	5.59	18.60	1.27
0.617	0.76	6.617	1.27	12.617	5.08	18.62	1.27
0.633	0.76	6.633	1.27	12.633	5.08	18.63	1.27
0.650	0.76	6.650	1.27	12.650	5.08	18.65	1.27
0.667	0.76	6.667	1.27	12.667	5.08	18.67	1.27
0.683	0.76	6.683	1.27	12.683	5.08	18.68	1.27
0.700	0.76	6.700	1.27	12.700	5.08	18.70	1.27
0.717	0.76	6.717	1.27	12.717	5.08	18.72	1.27
0.733	0.76	6.733	1.27	12.733	5.08	18.73	1.27
0.750	0.76	6.750	1.27	12.750	5.08	18.75	1.27
0.767	0.76	6.767	1.27	12.767	5.08	18.77	1.27
0.783	0.76	6.783	1.27	12.783	5.08	18.78	1.27
0.800	0.76	6.800	1.27	12.800	5.08	18.80	1.27
0.817	0.76	6.817	1.27	12.817	3.81	18.82	1.27
0.833	0.76	6.833	1.27	12.833	3.81	18.83	1.27
0.850	0.76	6.850	1.27	12.850	3.81	18.85	1.27
0.867	0.76	6.867	1.27	12.867	3.81	18.87	1.27
0.883	0.76	6.883	1.27	12.883	3.81	18.88	1.27
0.900	0.76	6.900	1.27	12.900	3.81	18.90	1.27
0.917	0.76	6.917	1.27	12.917	3.81	18.92	1.27
0.933	0.76	6.933	1.27	12.933	3.81	18.93	1.27
0.950	0.76	6.950	1.27	12.950	3.81	18.95	1.27
0.967	0.76	6.967	1.27	12.967	3.81	18.97	1.27
0.983	0.76	6.983	1.27	12.983	3.81	18.98	1.27
1.000	0.76	7.000	1.27	13.000	3.81	19.00	1.27
1.017	0.76	7.017	1.27	13.017	3.05	19.02	1.02
1.033	0.76	7.033	1.27	13.033	3.05	19.03	1.02
1.050	0.76	7.050	1.27	13.050	3.05	19.05	1.02
1.067	0.76	7.067	1.27	13.067	3.05	19.07	1.02
1.083	0.76	7.083	1.27	13.083	3.05	19.08	1.02
1.100	0.76	7.100	1.27	13.100	3.05	19.10	1.02
1.117	0.76	7.117	1.27	13.117	3.05	19.12	1.02
1.133	0.76	7.133	1.27	13.133	3.05	19.13	1.02
1.150	0.76	7.150	1.27	13.150	3.05	19.15	1.02
1.167	0.76	7.167	1.27	13.167	3.05	19.17	1.02
1.183	0.76	7.183	1.27	13.183	3.05	19.18	1.02
1.200	0.76	7.200	1.27	13.200	3.05	19.20	1.02
1.217	0.76	7.217	1.27	13.217	3.05	19.22	1.02
1.233	0.76	7.233	1.27	13.233	3.05	19.23	1.02
1.250	0.76	7.250	1.27	13.250	3.05	19.25	1.02
1.267	0.76	7.267	1.27	13.267	3.05	19.27	1.02
1.283	0.76	7.283	1.27	13.283	3.05	19.28	1.02
1.300	0.76	7.300	1.27	13.300	3.05	19.30	1.02
1.317	0.76	7.317	1.27	13.317	3.05	19.32	1.02
1.333	0.76	7.333	1.27	13.333	3.05	19.33	1.02
1.350	0.76	7.350	1.27	13.350	3.05	19.35	1.02
1.367	0.76	7.367	1.27	13.367	3.05	19.37	1.02
1.383	0.76	7.383	1.27	13.383	3.05	19.38	1.02
1.400	0.76	7.400	1.27	13.400	3.05	19.40	1.02
1.417	0.76	7.417	1.27	13.417	3.05	19.42	1.02

1.433	0.76	7.433	1.27	13.433	3.05	19.43	1.02
1.450	0.76	7.450	1.27	13.450	3.05	19.45	1.02
1.467	0.76	7.467	1.27	13.467	3.05	19.47	1.02
1.483	0.76	7.483	1.27	13.483	3.05	19.48	1.02
1.500	0.76	7.500	1.27	13.500	3.05	19.50	1.02
1.517	0.76	7.517	1.27	13.517	3.05	19.52	1.02
1.533	0.76	7.533	1.27	13.533	3.05	19.53	1.02
1.550	0.76	7.550	1.27	13.550	3.05	19.55	1.02
1.567	0.76	7.567	1.27	13.567	3.05	19.57	1.02
1.583	0.76	7.583	1.27	13.583	3.05	19.58	1.02
1.600	0.76	7.600	1.27	13.600	3.05	19.60	1.02
1.617	0.76	7.617	1.27	13.617	3.05	19.62	1.02
1.633	0.76	7.633	1.27	13.633	3.05	19.63	1.02
1.650	0.76	7.650	1.27	13.650	3.05	19.65	1.02
1.667	0.76	7.667	1.27	13.667	3.05	19.67	1.02
1.683	0.76	7.683	1.27	13.683	3.05	19.68	1.02
1.700	0.76	7.700	1.27	13.700	3.05	19.70	1.02
1.717	0.76	7.717	1.27	13.717	3.05	19.72	1.02
1.733	0.76	7.733	1.27	13.733	3.05	19.73	1.02
1.750	0.76	7.750	1.27	13.750	3.05	19.75	1.02
1.767	0.76	7.767	1.27	13.767	3.05	19.77	1.02
1.783	0.76	7.783	1.27	13.783	3.05	19.78	1.02
1.800	0.76	7.800	1.27	13.800	3.05	19.80	1.02
1.817	0.76	7.817	1.27	13.817	3.05	19.82	1.02
1.833	0.76	7.833	1.27	13.833	3.05	19.83	1.02
1.850	0.76	7.850	1.27	13.850	3.05	19.85	1.02
1.867	0.76	7.867	1.27	13.867	3.05	19.87	1.02
1.883	0.76	7.883	1.27	13.883	3.05	19.88	1.02
1.900	0.76	7.900	1.27	13.900	3.05	19.90	1.02
1.917	0.76	7.917	1.27	13.917	3.05	19.92	1.02
1.933	0.76	7.933	1.27	13.933	3.05	19.93	1.02
1.950	0.76	7.950	1.27	13.950	3.05	19.95	1.02
1.967	0.76	7.967	1.27	13.967	3.05	19.97	1.02
1.983	0.76	7.983	1.27	13.983	3.05	19.98	1.02
2.000	0.76	8.000	1.27	14.000	3.05	20.00	1.02
2.017	0.76	8.017	1.78	14.017	1.78	20.02	1.02
2.033	0.76	8.033	1.78	14.033	1.78	20.03	1.02
2.050	0.76	8.050	1.78	14.050	1.78	20.05	1.02
2.067	0.76	8.067	1.78	14.067	1.78	20.07	1.02
2.083	0.76	8.083	1.78	14.083	1.78	20.08	1.02
2.100	0.76	8.100	1.78	14.100	1.78	20.10	1.02
2.117	0.76	8.117	1.78	14.117	1.78	20.12	1.02
2.133	0.76	8.133	1.78	14.133	1.78	20.13	1.02
2.150	0.76	8.150	1.78	14.150	1.78	20.15	1.02
2.167	0.76	8.167	1.78	14.167	1.78	20.17	1.02
2.183	0.76	8.183	1.78	14.183	1.78	20.18	1.02
2.200	0.76	8.200	1.78	14.200	1.78	20.20	1.02
2.217	0.76	8.217	1.78	14.217	1.78	20.22	1.02
2.233	0.76	8.233	1.78	14.233	1.78	20.23	1.02
2.250	0.76	8.250	1.78	14.250	1.78	20.25	1.02
2.267	0.76	8.267	1.78	14.267	1.78	20.27	1.02
2.283	0.76	8.283	1.78	14.283	1.78	20.28	1.02
2.300	0.76	8.300	1.78	14.300	1.78	20.30	1.02
2.317	0.76	8.317	1.78	14.317	1.78	20.32	1.02
2.333	0.76	8.333	1.78	14.333	1.78	20.33	1.02
2.350	0.76	8.350	1.78	14.350	1.78	20.35	1.02
2.367	0.76	8.367	1.78	14.367	1.78	20.37	1.02
2.383	0.76	8.383	1.78	14.383	1.78	20.38	1.02
2.400	0.76	8.400	1.78	14.400	1.78	20.40	1.02
2.417	0.76	8.417	1.78	14.417	1.78	20.42	1.02
2.433	0.76	8.433	1.78	14.433	1.78	20.43	1.02
2.450	0.76	8.450	1.78	14.450	1.78	20.45	1.02
2.467	0.76	8.467	1.78	14.467	1.78	20.47	1.02
2.483	0.76	8.483	1.78	14.483	1.78	20.48	1.02
2.500	0.76	8.500	1.78	14.500	1.78	20.50	1.02
2.517	0.76	8.517	1.78	14.517	1.78	20.52	1.02
2.533	0.76	8.533	1.78	14.533	1.78	20.53	1.02
2.550	0.76	8.550	1.78	14.550	1.78	20.55	1.02
2.567	0.76	8.567	1.78	14.567	1.78	20.57	1.02
2.583	0.76	8.583	1.78	14.583	1.78	20.58	1.02
2.600	0.76	8.600	1.78	14.600	1.78	20.60	1.02
2.617	0.76	8.617	1.78	14.617	1.78	20.62	1.02
2.633	0.76	8.633	1.78	14.633	1.78	20.63	1.02
2.650	0.76	8.650	1.78	14.650	1.78	20.65	1.02
2.667	0.76	8.667	1.78	14.667	1.78	20.67	1.02
2.683	0.76	8.683	1.78	14.683	1.78	20.68	1.02
2.700	0.76	8.700	1.78	14.700	1.78	20.70	1.02
2.717	0.76	8.717	1.78	14.717	1.78	20.72	1.02
2.733	0.76	8.733	1.78	14.733	1.78	20.73	1.02
2.750	0.76	8.750	1.78	14.750	1.78	20.75	1.02
2.767	0.76	8.767	1.78	14.767	1.78	20.77	1.02
2.783	0.76	8.783	1.78	14.783	1.78	20.78	1.02
2.800	0.76	8.800	1.78	14.800	1.78	20.80	1.02
2.817	0.76	8.817	1.78	14.817	1.78	20.82	1.02
2.833	0.76	8.833	1.78	14.833	1.78	20.83	1.02
2.850	0.76	8.850	1.78	14.850	1.78	20.85	1.02
2.867	0.76	8.867	1.78	14.867	1.78	20.87	1.02
2.883	0.76	8.883	1.78	14.883	1.78	20.88	1.02
2.900	0.76	8.900	1.78	14.900	1.78	20.90	1.02
2.917	0.76	8.917	1.78	14.917	1.78	20.92	1.02
2.933	0.76	8.933	1.78	14.933	1.78	20.93	1.02
2.950	0.76	8.950	1.78	14.950	1.78	20.95	1.02
2.967	0.76	8.967	1.78	14.967	1.78	20.97	1.02
2.983	0.76	8.983	1.78	14.983	1.78	20.98	1.02
3.000	0.76	9.000	1.78	15.000	1.78	21.00	1.02
3.017	0.76	9.017	1.78	15.017	1.78	21.02	0.76
3.033	0.76	9.033	1.78	15.033	1.78	21.03	0.76
3.050	0.76	9.050	1.78	15.050	1.78	21.05	0.76
3.067	0.76	9.067	1.78	15.067	1.78	21.07	0.76
3.083	0.76	9.083	1.78	15.083	1.78	21.08	0.76

3.100	0.76	9.100	1.78	15.100	1.78	21.10	0.76
3.117	0.76	9.117	1.78	15.117	1.78	21.12	0.76
3.133	0.76	9.133	1.78	15.133	1.78	21.13	0.76
3.150	0.76	9.150	1.78	15.150	1.78	21.15	0.76
3.167	0.76	9.167	1.78	15.167	1.78	21.17	0.76
3.183	0.76	9.183	1.78	15.183	1.78	21.18	0.76
3.200	0.76	9.200	1.78	15.200	1.78	21.20	0.76
3.217	0.76	9.217	1.78	15.217	1.78	21.22	0.76
3.233	0.76	9.233	1.78	15.233	1.78	21.23	0.76
3.250	0.76	9.250	1.78	15.250	1.78	21.25	0.76
3.267	0.76	9.267	1.78	15.267	1.78	21.27	0.76
3.283	0.76	9.283	1.78	15.283	1.78	21.28	0.76
3.300	0.76	9.300	1.78	15.300	1.78	21.30	0.76
3.317	0.76	9.317	1.78	15.317	1.78	21.32	0.76
3.333	0.76	9.333	1.78	15.333	1.78	21.33	0.76
3.350	0.76	9.350	1.78	15.350	1.78	21.35	0.76
3.367	0.76	9.367	1.78	15.367	1.78	21.37	0.76
3.383	0.76	9.383	1.78	15.383	1.78	21.38	0.76
3.400	0.76	9.400	1.78	15.400	1.78	21.40	0.76
3.417	0.76	9.417	1.78	15.417	1.78	21.42	0.76
3.433	0.76	9.433	1.78	15.433	1.78	21.43	0.76
3.450	0.76	9.450	1.78	15.450	1.78	21.45	0.76
3.467	0.76	9.467	1.78	15.467	1.78	21.47	0.76
3.483	0.76	9.483	1.78	15.483	1.78	21.48	0.76
3.500	0.76	9.500	1.78	15.500	1.78	21.50	0.76
3.517	0.76	9.517	1.78	15.517	1.78	21.52	0.76
3.533	0.76	9.533	1.78	15.533	1.78	21.53	0.76
3.550	0.76	9.550	1.78	15.550	1.78	21.55	0.76
3.567	0.76	9.567	1.78	15.567	1.78	21.57	0.76
3.583	0.76	9.583	1.78	15.583	1.78	21.58	0.76
3.600	0.76	9.600	1.78	15.600	1.78	21.60	0.76
3.617	0.76	9.617	1.78	15.617	1.78	21.62	0.76
3.633	0.76	9.633	1.78	15.633	1.78	21.63	0.76
3.650	0.76	9.650	1.78	15.650	1.78	21.65	0.76
3.667	0.76	9.667	1.78	15.667	1.78	21.67	0.76
3.683	0.76	9.683	1.78	15.683	1.78	21.68	0.76
3.700	0.76	9.700	1.78	15.700	1.78	21.70	0.76
3.717	0.76	9.717	1.78	15.717	1.78	21.72	0.76
3.733	0.76	9.733	1.78	15.733	1.78	21.73	0.76
3.750	0.76	9.750	1.78	15.750	1.78	21.75	0.76
3.767	0.76	9.767	1.78	15.767	1.78	21.77	0.76
3.783	0.76	9.783	1.78	15.783	1.78	21.78	0.76
3.800	0.76	9.800	1.78	15.800	1.78	21.80	0.76
3.817	0.76	9.817	1.78	15.817	1.78	21.82	0.76
3.833	0.76	9.833	1.78	15.833	1.78	21.83	0.76
3.850	0.76	9.850	1.78	15.850	1.78	21.85	0.76
3.867	0.76	9.867	1.78	15.867	1.78	21.87	0.76
3.883	0.76	9.883	1.78	15.883	1.78	21.88	0.76
3.900	0.76	9.900	1.78	15.900	1.78	21.90	0.76
3.917	0.76	9.917	1.78	15.917	1.78	21.92	0.76
3.933	0.76	9.933	1.78	15.933	1.78	21.93	0.76
3.950	0.76	9.950	1.78	15.950	1.78	21.95	0.76
3.967	0.76	9.967	1.78	15.967	1.78	21.97	0.76
3.983	0.76	9.983	1.78	15.983	1.78	21.98	0.76
4.000	0.76	10.000	1.78	16.000	1.78	22.00	0.76
4.017	1.27	10.017	3.30	16.017	1.27	22.02	0.76
4.033	1.27	10.033	3.30	16.033	1.27	22.03	0.76
4.050	1.27	10.050	3.30	16.050	1.27	22.05	0.76
4.067	1.27	10.067	3.30	16.067	1.27	22.07	0.76
4.083	1.27	10.083	3.30	16.083	1.27	22.08	0.76
4.100	1.27	10.100	3.30	16.100	1.27	22.10	0.76
4.117	1.27	10.117	3.30	16.117	1.27	22.12	0.76
4.133	1.27	10.133	3.30	16.133	1.27	22.13	0.76
4.150	1.27	10.150	3.30	16.150	1.27	22.15	0.76
4.167	1.27	10.167	3.30	16.167	1.27	22.17	0.76
4.183	1.27	10.183	3.30	16.183	1.27	22.18	0.76
4.200	1.27	10.200	3.30	16.200	1.27	22.20	0.76
4.217	1.27	10.217	3.30	16.217	1.27	22.22	0.76
4.233	1.27	10.233	3.30	16.233	1.27	22.23	0.76
4.250	1.27	10.250	3.30	16.250	1.27	22.25	0.76
4.267	1.27	10.267	3.30	16.267	1.27	22.27	0.76
4.283	1.27	10.283	3.30	16.283	1.27	22.28	0.76
4.300	1.27	10.300	3.30	16.300	1.27	22.30	0.76
4.317	1.27	10.317	3.30	16.317	1.27	22.32	0.76
4.333	1.27	10.333	3.30	16.333	1.27	22.33	0.76
4.350	1.27	10.350	3.30	16.350	1.27	22.35	0.76
4.367	1.27	10.367	3.30	16.367	1.27	22.37	0.76
4.383	1.27	10.383	3.30	16.383	1.27	22.38	0.76
4.400	1.27	10.400	3.30	16.400	1.27	22.40	0.76
4.417	1.27	10.417	3.30	16.417	1.27	22.42	0.76
4.433	1.27	10.433	3.30	16.433	1.27	22.43	0.76
4.450	1.27	10.450	3.30	16.450	1.27	22.45	0.76
4.467	1.27	10.467	3.30	16.467	1.27	22.47	0.76
4.483	1.27	10.483	3.30	16.483	1.27	22.48	0.76
4.500	1.27	10.500	3.30	16.500	1.27	22.50	0.76
4.517	1.27	10.517	3.30	16.517	1.27	22.52	0.76
4.533	1.27	10.533	3.30	16.533	1.27	22.53	0.76
4.550	1.27	10.550	3.30	16.550	1.27	22.55	0.76
4.567	1.27	10.567	3.30	16.567	1.27	22.57	0.76
4.583	1.27	10.583	3.30	16.583	1.27	22.58	0.76
4.600	1.27	10.600	3.30	16.600	1.27	22.60	0.76
4.617	1.27	10.617	3.30	16.617	1.27	22.62	0.76
4.633	1.27	10.633	3.30	16.633	1.27	22.63	0.76
4.650	1.27	10.650	3.30	16.650	1.27	22.65	0.76
4.667	1.27	10.667	3.30	16.667	1.27	22.67	0.76
4.683	1.27	10.683	3.30	16.683	1.27	22.68	0.76
4.700	1.27	10.700	3.30	16.700	1.27	22.70	0.76
4.717	1.27	10.717	3.30	16.717	1.27	22.72	0.76
4.733	1.27	10.733	3.30	16.733	1.27	22.73	0.76
4.750	1.27	10.750	3.30	16.750	1.27	22.75	0.76

4.767	1.27	10.767	3.30	16.767	1.27	22.77	0.76
4.783	1.27	10.783	3.30	16.783	1.27	22.78	0.76
4.800	1.27	10.800	3.30	16.800	1.27	22.80	0.76
4.817	1.27	10.817	3.30	16.817	1.27	22.82	0.76
4.833	1.27	10.833	3.30	16.833	1.27	22.83	0.76
4.850	1.27	10.850	3.30	16.850	1.27	22.85	0.76
4.867	1.27	10.867	3.30	16.867	1.27	22.87	0.76
4.883	1.27	10.883	3.30	16.883	1.27	22.88	0.76
4.900	1.27	10.900	3.30	16.900	1.27	22.90	0.76
4.917	1.27	10.917	3.30	16.917	1.27	22.92	0.76
4.933	1.27	10.933	3.30	16.933	1.27	22.93	0.76
4.950	1.27	10.950	3.30	16.950	1.27	22.95	0.76
4.967	1.27	10.967	3.30	16.967	1.27	22.97	0.76
4.983	1.27	10.983	3.30	16.983	1.27	22.98	0.76
5.000	1.27	11.000	3.30	17.000	1.27	23.00	0.76
5.017	1.27	11.017	4.57	17.017	1.27	23.02	0.76
5.033	1.27	11.033	4.57	17.033	1.27	23.03	0.76
5.050	1.27	11.050	4.57	17.050	1.27	23.05	0.76
5.067	1.27	11.067	4.57	17.067	1.27	23.07	0.76
5.083	1.27	11.083	4.57	17.083	1.27	23.08	0.76
5.100	1.27	11.100	4.57	17.100	1.27	23.10	0.76
5.117	1.27	11.117	4.57	17.117	1.27	23.12	0.76
5.133	1.27	11.133	4.57	17.133	1.27	23.13	0.76
5.150	1.27	11.150	4.57	17.150	1.27	23.15	0.76
5.167	1.27	11.167	4.57	17.167	1.27	23.17	0.76
5.183	1.27	11.183	4.57	17.183	1.27	23.18	0.76
5.200	1.27	11.200	4.57	17.200	1.27	23.20	0.76
5.217	1.27	11.217	6.60	17.217	1.27	23.22	0.76
5.233	1.27	11.233	6.60	17.233	1.27	23.23	0.76
5.250	1.27	11.250	6.60	17.250	1.27	23.25	0.76
5.267	1.27	11.267	6.60	17.267	1.27	23.27	0.76
5.283	1.27	11.283	6.60	17.283	1.27	23.28	0.76
5.300	1.27	11.300	6.60	17.300	1.27	23.30	0.76
5.317	1.27	11.317	6.60	17.317	1.27	23.32	0.76
5.333	1.27	11.333	6.60	17.333	1.27	23.33	0.76
5.350	1.27	11.350	6.60	17.350	1.27	23.35	0.76
5.367	1.27	11.367	6.60	17.367	1.27	23.37	0.76
5.383	1.27	11.383	6.60	17.383	1.27	23.38	0.76
5.400	1.27	11.400	6.60	17.400	1.27	23.40	0.76
5.417	1.27	11.417	15.24	17.417	1.27	23.42	0.76
5.433	1.27	11.433	15.24	17.433	1.27	23.43	0.76
5.450	1.27	11.450	15.24	17.450	1.27	23.45	0.76
5.467	1.27	11.467	15.24	17.467	1.27	23.47	0.76
5.483	1.27	11.483	15.24	17.483	1.27	23.48	0.76
5.500	1.27	11.500	15.24	17.500	1.27	23.50	0.76
5.517	1.27	11.517	15.24	17.517	1.27	23.52	0.76
5.533	1.27	11.533	15.24	17.533	1.27	23.53	0.76
5.550	1.27	11.550	15.24	17.550	1.27	23.55	0.76
5.567	1.27	11.567	15.24	17.567	1.27	23.57	0.76
5.583	1.27	11.583	15.24	17.583	1.27	23.58	0.76
5.600	1.27	11.600	15.24	17.600	1.27	23.60	0.76
5.617	1.27	11.617	33.26	17.617	1.27	23.62	0.76
5.633	1.27	11.633	33.27	17.633	1.27	23.63	0.76
5.650	1.27	11.650	33.27	17.650	1.27	23.65	0.76
5.667	1.27	11.667	33.27	17.667	1.27	23.67	0.76
5.683	1.27	11.683	33.27	17.683	1.27	23.68	0.76
5.700	1.27	11.700	33.27	17.700	1.27	23.70	0.76
5.717	1.27	11.717	33.27	17.717	1.27	23.72	0.76
5.733	1.27	11.733	33.27	17.733	1.27	23.73	0.76
5.750	1.27	11.750	33.27	17.750	1.27	23.75	0.76
5.767	1.27	11.767	33.27	17.767	1.27	23.77	0.76
5.783	1.27	11.783	33.27	17.783	1.27	23.78	0.76
5.800	1.27	11.800	33.27	17.800	1.27	23.80	0.76
5.817	1.27	11.817	69.58	17.817	1.27	23.82	0.76
5.833	1.27	11.833	69.60	17.833	1.27	23.83	0.76
5.850	1.27	11.850	69.60	17.850	1.27	23.85	0.76
5.867	1.27	11.867	69.60	17.867	1.27	23.87	0.76
5.883	1.27	11.883	69.60	17.883	1.27	23.88	0.76
5.900	1.27	11.900	69.60	17.900	1.27	23.90	0.76
5.917	1.27	11.917	69.60	17.917	1.27	23.92	0.76
5.933	1.27	11.933	69.60	17.933	1.27	23.93	0.76
5.950	1.27	11.950	69.60	17.950	1.27	23.95	0.76
5.967	1.27	11.967	69.60	17.967	1.27	23.97	0.76
5.983	1.27	11.983	69.60	17.983	1.27	23.98	0.76
6.000	1.27	12.000	69.60	18.000	1.27	24.00	0.76

Max.Eff.Inten.(mm/hr)=	69.60	46.70	
over (min)	5.00	4.00	
Storage Coeff. (min)=	1.82 (ii)	3.11 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.39	0.33	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.028 (iii)
TIME TO PEAK (hrs)=	12.00	12.00	12.00
RUNOFF VOLUME (mm)=	61.43	35.11	61.16
TOTAL RAINFALL (mm)=	62.43	62.43	62.43
RUNOFF COEFFICIENT =	0.98	0.56	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0103)|	OVERFLOW IS OFF			
IN= 2---> OUT= 1 |				
DT= 5.0 min |	OUTFLOW	STORAGE |	OUTFLOW	STORAGE

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--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0250      0.0040
                          0.0130     0.0020   |   0.0380      0.0059

                                  AREA     QPEAK     TPEAK       R.V.
                                  (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2014)      0.148      0.028     12.00      61.16
   OUTFLOW: ID= 1 (  0103)      0.148      0.014     12.08      60.90

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)= 50.44
                    TIME SHIFT OF PEAK FLOW         (min)=  5.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=  0.0022

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  2013)|   Area    (ha)=   0.31
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
--------------------
                               IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.31         0.00
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope     (%)=       0.50         2.00
     Length            (m)=      65.00        40.00
     Mannings n           =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
              0.017    0.76 | 6.017    1.27 |12.017   12.23 | 18.02    1.27
              0.033    0.76 | 6.033    1.27 |12.033   12.19 | 18.03    1.27
              0.050    0.76 | 6.050    1.27 |12.050   12.19 | 18.05    1.27
              0.067    0.76 | 6.067    1.27 |12.067   12.19 | 18.07    1.27
              0.083    0.76 | 6.083    1.27 |12.083   12.19 | 18.08    1.27
              0.100    0.76 | 6.100    1.27 |12.100   12.19 | 18.10    1.27
              0.117    0.76 | 6.117    1.27 |12.117   12.19 | 18.12    1.27
              0.133    0.76 | 6.133    1.27 |12.133   12.19 | 18.13    1.27
              0.150    0.76 | 6.150    1.27 |12.150   12.19 | 18.15    1.27
              0.167    0.76 | 6.167    1.27 |12.167   12.19 | 18.17    1.27
              0.183    0.76 | 6.183    1.27 |12.183   12.19 | 18.18    1.27
              0.200    0.76 | 6.200    1.27 |12.200   12.19 | 18.20    1.27
              0.217    0.76 | 6.217    1.27 |12.217    7.62 | 18.22    1.27
              0.233    0.76 | 6.233    1.27 |12.233    7.62 | 18.23    1.27
              0.250    0.76 | 6.250    1.27 |12.250    7.62 | 18.25    1.27
              0.267    0.76 | 6.267    1.27 |12.267    7.62 | 18.27    1.27
              0.283    0.76 | 6.283    1.27 |12.283    7.62 | 18.28    1.27
              0.300    0.76 | 6.300    1.27 |12.300    7.62 | 18.30    1.27
              0.317    0.76 | 6.317    1.27 |12.317    7.62 | 18.32    1.27
              0.333    0.76 | 6.333    1.27 |12.333    7.62 | 18.33    1.27
              0.350    0.76 | 6.350    1.27 |12.350    7.62 | 18.35    1.27
              0.367    0.76 | 6.367    1.27 |12.367    7.62 | 18.37    1.27
              0.383    0.76 | 6.383    1.27 |12.383    7.62 | 18.38    1.27
              0.400    0.76 | 6.400    1.27 |12.400    7.62 | 18.40    1.27
              0.417    0.76 | 6.417    1.27 |12.417    5.59 | 18.42    1.27
              0.433    0.76 | 6.433    1.27 |12.433    5.59 | 18.43    1.27
              0.450    0.76 | 6.450    1.27 |12.450    5.59 | 18.45    1.27
              0.467    0.76 | 6.467    1.27 |12.467    5.59 | 18.47    1.27
              0.483    0.76 | 6.483    1.27 |12.483    5.59 | 18.48    1.27
              0.500    0.76 | 6.500    1.27 |12.500    5.59 | 18.50    1.27
              0.517    0.76 | 6.517    1.27 |12.517    5.59 | 18.52    1.27
              0.533    0.76 | 6.533    1.27 |12.533    5.59 | 18.53    1.27
              0.550    0.76 | 6.550    1.27 |12.550    5.59 | 18.55    1.27
              0.567    0.76 | 6.567    1.27 |12.567    5.59 | 18.57    1.27
              0.583    0.76 | 6.583    1.27 |12.583    5.59 | 18.58    1.27
              0.600    0.76 | 6.600    1.27 |12.600    5.59 | 18.60    1.27
              0.617    0.76 | 6.617    1.27 |12.617    5.08 | 18.62    1.27
              0.633    0.76 | 6.633    1.27 |12.633    5.08 | 18.63    1.27
              0.650    0.76 | 6.650    1.27 |12.650    5.08 | 18.65    1.27
              0.667    0.76 | 6.667    1.27 |12.667    5.08 | 18.67    1.27
              0.683    0.76 | 6.683    1.27 |12.683    5.08 | 18.68    1.27
              0.700    0.76 | 6.700    1.27 |12.700    5.08 | 18.70    1.27
              0.717    0.76 | 6.717    1.27 |12.717    5.08 | 18.72    1.27
              0.733    0.76 | 6.733    1.27 |12.733    5.08 | 18.73    1.27
              0.750    0.76 | 6.750    1.27 |12.750    5.08 | 18.75    1.27
              0.767    0.76 | 6.767    1.27 |12.767    5.08 | 18.77    1.27
              0.783    0.76 | 6.783    1.27 |12.783    5.08 | 18.78    1.27
              0.800    0.76 | 6.800    1.27 |12.800    5.08 | 18.80    1.27
              0.817    0.76 | 6.817    1.27 |12.817    3.81 | 18.82    1.27
              0.833    0.76 | 6.833    1.27 |12.833    3.81 | 18.83    1.27
              0.850    0.76 | 6.850    1.27 |12.850    3.81 | 18.85    1.27
              0.867    0.76 | 6.867    1.27 |12.867    3.81 | 18.87    1.27
              0.883    0.76 | 6.883    1.27 |12.883    3.81 | 18.88    1.27
              0.900    0.76 | 6.900    1.27 |12.900    3.81 | 18.90    1.27
              0.917    0.76 | 6.917    1.27 |12.917    3.81 | 18.92    1.27
              0.933    0.76 | 6.933    1.27 |12.933    3.81 | 18.93    1.27
              0.950    0.76 | 6.950    1.27 |12.950    3.81 | 18.95    1.27
              0.967    0.76 | 6.967    1.27 |12.967    3.81 | 18.97    1.27
              0.983    0.76 | 6.983    1.27 |12.983    3.81 | 18.98    1.27
              1.000    0.76 | 7.000    1.27 |13.000    3.81 | 19.00    1.27
              1.017    0.76 | 7.017    1.27 |13.017    3.05 | 19.02    1.02
              1.033    0.76 | 7.033    1.27 |13.033    3.05 | 19.03    1.02
              1.050    0.76 | 7.050    1.27 |13.050    3.05 | 19.05    1.02
              1.067    0.76 | 7.067    1.27 |13.067    3.05 | 19.07    1.02
              1.083    0.76 | 7.083    1.27 |13.083    3.05 | 19.08    1.02
              1.100    0.76 | 7.100    1.27 |13.100    3.05 | 19.10    1.02
              1.117    0.76 | 7.117    1.27 |13.117    3.05 | 19.12    1.02
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1.133	0.76	7.133	1.27	13.133	3.05	19.13	1.02
1.150	0.76	7.150	1.27	13.150	3.05	19.15	1.02
1.167	0.76	7.167	1.27	13.167	3.05	19.17	1.02
1.183	0.76	7.183	1.27	13.183	3.05	19.18	1.02
1.200	0.76	7.200	1.27	13.200	3.05	19.20	1.02
1.217	0.76	7.217	1.27	13.217	3.05	19.22	1.02
1.233	0.76	7.233	1.27	13.233	3.05	19.23	1.02
1.250	0.76	7.250	1.27	13.250	3.05	19.25	1.02
1.267	0.76	7.267	1.27	13.267	3.05	19.27	1.02
1.283	0.76	7.283	1.27	13.283	3.05	19.28	1.02
1.300	0.76	7.300	1.27	13.300	3.05	19.30	1.02
1.317	0.76	7.317	1.27	13.317	3.05	19.32	1.02
1.333	0.76	7.333	1.27	13.333	3.05	19.33	1.02
1.350	0.76	7.350	1.27	13.350	3.05	19.35	1.02
1.367	0.76	7.367	1.27	13.367	3.05	19.37	1.02
1.383	0.76	7.383	1.27	13.383	3.05	19.38	1.02
1.400	0.76	7.400	1.27	13.400	3.05	19.40	1.02
1.417	0.76	7.417	1.27	13.417	3.05	19.42	1.02
1.433	0.76	7.433	1.27	13.433	3.05	19.43	1.02
1.450	0.76	7.450	1.27	13.450	3.05	19.45	1.02
1.467	0.76	7.467	1.27	13.467	3.05	19.47	1.02
1.483	0.76	7.483	1.27	13.483	3.05	19.48	1.02
1.500	0.76	7.500	1.27	13.500	3.05	19.50	1.02
1.517	0.76	7.517	1.27	13.517	3.05	19.52	1.02
1.533	0.76	7.533	1.27	13.533	3.05	19.53	1.02
1.550	0.76	7.550	1.27	13.550	3.05	19.55	1.02
1.567	0.76	7.567	1.27	13.567	3.05	19.57	1.02
1.583	0.76	7.583	1.27	13.583	3.05	19.58	1.02
1.600	0.76	7.600	1.27	13.600	3.05	19.60	1.02
1.617	0.76	7.617	1.27	13.617	3.05	19.62	1.02
1.633	0.76	7.633	1.27	13.633	3.05	19.63	1.02
1.650	0.76	7.650	1.27	13.650	3.05	19.65	1.02
1.667	0.76	7.667	1.27	13.667	3.05	19.67	1.02
1.683	0.76	7.683	1.27	13.683	3.05	19.68	1.02
1.700	0.76	7.700	1.27	13.700	3.05	19.70	1.02
1.717	0.76	7.717	1.27	13.717	3.05	19.72	1.02
1.733	0.76	7.733	1.27	13.733	3.05	19.73	1.02
1.750	0.76	7.750	1.27	13.750	3.05	19.75	1.02
1.767	0.76	7.767	1.27	13.767	3.05	19.77	1.02
1.783	0.76	7.783	1.27	13.783	3.05	19.78	1.02
1.800	0.76	7.800	1.27	13.800	3.05	19.80	1.02
1.817	0.76	7.817	1.27	13.817	3.05	19.82	1.02
1.833	0.76	7.833	1.27	13.833	3.05	19.83	1.02
1.850	0.76	7.850	1.27	13.850	3.05	19.85	1.02
1.867	0.76	7.867	1.27	13.867	3.05	19.87	1.02
1.883	0.76	7.883	1.27	13.883	3.05	19.88	1.02
1.900	0.76	7.900	1.27	13.900	3.05	19.90	1.02
1.917	0.76	7.917	1.27	13.917	3.05	19.92	1.02
1.933	0.76	7.933	1.27	13.933	3.05	19.93	1.02
1.950	0.76	7.950	1.27	13.950	3.05	19.95	1.02
1.967	0.76	7.967	1.27	13.967	3.05	19.97	1.02
1.983	0.76	7.983	1.27	13.983	3.05	19.98	1.02
2.000	0.76	8.000	1.27	14.000	3.05	20.00	1.02
2.017	0.76	8.017	1.78	14.017	1.78	20.02	1.02
2.033	0.76	8.033	1.78	14.033	1.78	20.03	1.02
2.050	0.76	8.050	1.78	14.050	1.78	20.05	1.02
2.067	0.76	8.067	1.78	14.067	1.78	20.07	1.02
2.083	0.76	8.083	1.78	14.083	1.78	20.08	1.02
2.100	0.76	8.100	1.78	14.100	1.78	20.10	1.02
2.117	0.76	8.117	1.78	14.117	1.78	20.12	1.02
2.133	0.76	8.133	1.78	14.133	1.78	20.13	1.02
2.150	0.76	8.150	1.78	14.150	1.78	20.15	1.02
2.167	0.76	8.167	1.78	14.167	1.78	20.17	1.02
2.183	0.76	8.183	1.78	14.183	1.78	20.18	1.02
2.200	0.76	8.200	1.78	14.200	1.78	20.20	1.02
2.217	0.76	8.217	1.78	14.217	1.78	20.22	1.02
2.233	0.76	8.233	1.78	14.233	1.78	20.23	1.02
2.250	0.76	8.250	1.78	14.250	1.78	20.25	1.02
2.267	0.76	8.267	1.78	14.267	1.78	20.27	1.02
2.283	0.76	8.283	1.78	14.283	1.78	20.28	1.02
2.300	0.76	8.300	1.78	14.300	1.78	20.30	1.02
2.317	0.76	8.317	1.78	14.317	1.78	20.32	1.02
2.333	0.76	8.333	1.78	14.333	1.78	20.33	1.02
2.350	0.76	8.350	1.78	14.350	1.78	20.35	1.02
2.367	0.76	8.367	1.78	14.367	1.78	20.37	1.02
2.383	0.76	8.383	1.78	14.383	1.78	20.38	1.02
2.400	0.76	8.400	1.78	14.400	1.78	20.40	1.02
2.417	0.76	8.417	1.78	14.417	1.78	20.42	1.02
2.433	0.76	8.433	1.78	14.433	1.78	20.43	1.02
2.450	0.76	8.450	1.78	14.450	1.78	20.45	1.02
2.467	0.76	8.467	1.78	14.467	1.78	20.47	1.02
2.483	0.76	8.483	1.78	14.483	1.78	20.48	1.02
2.500	0.76	8.500	1.78	14.500	1.78	20.50	1.02
2.517	0.76	8.517	1.78	14.517	1.78	20.52	1.02
2.533	0.76	8.533	1.78	14.533	1.78	20.53	1.02
2.550	0.76	8.550	1.78	14.550	1.78	20.55	1.02
2.567	0.76	8.567	1.78	14.567	1.78	20.57	1.02
2.583	0.76	8.583	1.78	14.583	1.78	20.58	1.02
2.600	0.76	8.600	1.78	14.600	1.78	20.60	1.02
2.617	0.76	8.617	1.78	14.617	1.78	20.62	1.02
2.633	0.76	8.633	1.78	14.633	1.78	20.63	1.02
2.650	0.76	8.650	1.78	14.650	1.78	20.65	1.02
2.667	0.76	8.667	1.78	14.667	1.78	20.67	1.02
2.683	0.76	8.683	1.78	14.683	1.78	20.68	1.02
2.700	0.76	8.700	1.78	14.700	1.78	20.70	1.02
2.717	0.76	8.717	1.78	14.717	1.78	20.72	1.02
2.733	0.76	8.733	1.78	14.733	1.78	20.73	1.02
2.750	0.76	8.750	1.78	14.750	1.78	20.75	1.02
2.767	0.76	8.767	1.78	14.767	1.78	20.77	1.02
2.783	0.76	8.783	1.78	14.783	1.78	20.78	1.02

2.800	0.76	8.800	1.78	14.800	1.78	20.80	1.02
2.817	0.76	8.817	1.78	14.817	1.78	20.82	1.02
2.833	0.76	8.833	1.78	14.833	1.78	20.83	1.02
2.850	0.76	8.850	1.78	14.850	1.78	20.85	1.02
2.867	0.76	8.867	1.78	14.867	1.78	20.87	1.02
2.883	0.76	8.883	1.78	14.883	1.78	20.88	1.02
2.900	0.76	8.900	1.78	14.900	1.78	20.90	1.02
2.917	0.76	8.917	1.78	14.917	1.78	20.92	1.02
2.933	0.76	8.933	1.78	14.933	1.78	20.93	1.02
2.950	0.76	8.950	1.78	14.950	1.78	20.95	1.02
2.967	0.76	8.967	1.78	14.967	1.78	20.97	1.02
2.983	0.76	8.983	1.78	14.983	1.78	20.98	1.02
3.000	0.76	9.000	1.78	15.000	1.78	21.00	1.02
3.017	0.76	9.017	1.78	15.017	1.78	21.02	0.76
3.033	0.76	9.033	1.78	15.033	1.78	21.03	0.76
3.050	0.76	9.050	1.78	15.050	1.78	21.05	0.76
3.067	0.76	9.067	1.78	15.067	1.78	21.07	0.76
3.083	0.76	9.083	1.78	15.083	1.78	21.08	0.76
3.100	0.76	9.100	1.78	15.100	1.78	21.10	0.76
3.117	0.76	9.117	1.78	15.117	1.78	21.12	0.76
3.133	0.76	9.133	1.78	15.133	1.78	21.13	0.76
3.150	0.76	9.150	1.78	15.150	1.78	21.15	0.76
3.167	0.76	9.167	1.78	15.167	1.78	21.17	0.76
3.183	0.76	9.183	1.78	15.183	1.78	21.18	0.76
3.200	0.76	9.200	1.78	15.200	1.78	21.20	0.76
3.217	0.76	9.217	1.78	15.217	1.78	21.22	0.76
3.233	0.76	9.233	1.78	15.233	1.78	21.23	0.76
3.250	0.76	9.250	1.78	15.250	1.78	21.25	0.76
3.267	0.76	9.267	1.78	15.267	1.78	21.27	0.76
3.283	0.76	9.283	1.78	15.283	1.78	21.28	0.76
3.300	0.76	9.300	1.78	15.300	1.78	21.30	0.76
3.317	0.76	9.317	1.78	15.317	1.78	21.32	0.76
3.333	0.76	9.333	1.78	15.333	1.78	21.33	0.76
3.350	0.76	9.350	1.78	15.350	1.78	21.35	0.76
3.367	0.76	9.367	1.78	15.367	1.78	21.37	0.76
3.383	0.76	9.383	1.78	15.383	1.78	21.38	0.76
3.400	0.76	9.400	1.78	15.400	1.78	21.40	0.76
3.417	0.76	9.417	1.78	15.417	1.78	21.42	0.76
3.433	0.76	9.433	1.78	15.433	1.78	21.43	0.76
3.450	0.76	9.450	1.78	15.450	1.78	21.45	0.76
3.467	0.76	9.467	1.78	15.467	1.78	21.47	0.76
3.483	0.76	9.483	1.78	15.483	1.78	21.48	0.76
3.500	0.76	9.500	1.78	15.500	1.78	21.50	0.76
3.517	0.76	9.517	1.78	15.517	1.78	21.52	0.76
3.533	0.76	9.533	1.78	15.533	1.78	21.53	0.76
3.550	0.76	9.550	1.78	15.550	1.78	21.55	0.76
3.567	0.76	9.567	1.78	15.567	1.78	21.57	0.76
3.583	0.76	9.583	1.78	15.583	1.78	21.58	0.76
3.600	0.76	9.600	1.78	15.600	1.78	21.60	0.76
3.617	0.76	9.617	1.78	15.617	1.78	21.62	0.76
3.633	0.76	9.633	1.78	15.633	1.78	21.63	0.76
3.650	0.76	9.650	1.78	15.650	1.78	21.65	0.76
3.667	0.76	9.667	1.78	15.667	1.78	21.67	0.76
3.683	0.76	9.683	1.78	15.683	1.78	21.68	0.76
3.700	0.76	9.700	1.78	15.700	1.78	21.70	0.76
3.717	0.76	9.717	1.78	15.717	1.78	21.72	0.76
3.733	0.76	9.733	1.78	15.733	1.78	21.73	0.76
3.750	0.76	9.750	1.78	15.750	1.78	21.75	0.76
3.767	0.76	9.767	1.78	15.767	1.78	21.77	0.76
3.783	0.76	9.783	1.78	15.783	1.78	21.78	0.76
3.800	0.76	9.800	1.78	15.800	1.78	21.80	0.76
3.817	0.76	9.817	1.78	15.817	1.78	21.82	0.76
3.833	0.76	9.833	1.78	15.833	1.78	21.83	0.76
3.850	0.76	9.850	1.78	15.850	1.78	21.85	0.76
3.867	0.76	9.867	1.78	15.867	1.78	21.87	0.76
3.883	0.76	9.883	1.78	15.883	1.78	21.88	0.76
3.900	0.76	9.900	1.78	15.900	1.78	21.90	0.76
3.917	0.76	9.917	1.78	15.917	1.78	21.92	0.76
3.933	0.76	9.933	1.78	15.933	1.78	21.93	0.76
3.950	0.76	9.950	1.78	15.950	1.78	21.95	0.76
3.967	0.76	9.967	1.78	15.967	1.78	21.97	0.76
3.983	0.76	9.983	1.78	15.983	1.78	21.98	0.76
4.000	0.76	10.000	1.78	16.000	1.78	22.00	0.76
4.017	1.27	10.017	3.30	16.017	1.27	22.02	0.76
4.033	1.27	10.033	3.30	16.033	1.27	22.03	0.76
4.050	1.27	10.050	3.30	16.050	1.27	22.05	0.76
4.067	1.27	10.067	3.30	16.067	1.27	22.07	0.76
4.083	1.27	10.083	3.30	16.083	1.27	22.08	0.76
4.100	1.27	10.100	3.30	16.100	1.27	22.10	0.76
4.117	1.27	10.117	3.30	16.117	1.27	22.12	0.76
4.133	1.27	10.133	3.30	16.133	1.27	22.13	0.76
4.150	1.27	10.150	3.30	16.150	1.27	22.15	0.76
4.167	1.27	10.167	3.30	16.167	1.27	22.17	0.76
4.183	1.27	10.183	3.30	16.183	1.27	22.18	0.76
4.200	1.27	10.200	3.30	16.200	1.27	22.20	0.76
4.217	1.27	10.217	3.30	16.217	1.27	22.22	0.76
4.233	1.27	10.233	3.30	16.233	1.27	22.23	0.76
4.250	1.27	10.250	3.30	16.250	1.27	22.25	0.76
4.267	1.27	10.267	3.30	16.267	1.27	22.27	0.76
4.283	1.27	10.283	3.30	16.283	1.27	22.28	0.76
4.300	1.27	10.300	3.30	16.300	1.27	22.30	0.76
4.317	1.27	10.317	3.30	16.317	1.27	22.32	0.76
4.333	1.27	10.333	3.30	16.333	1.27	22.33	0.76
4.350	1.27	10.350	3.30	16.350	1.27	22.35	0.76
4.367	1.27	10.367	3.30	16.367	1.27	22.37	0.76
4.383	1.27	10.383	3.30	16.383	1.27	22.38	0.76
4.400	1.27	10.400	3.30	16.400	1.27	22.40	0.76
4.417	1.27	10.417	3.30	16.417	1.27	22.42	0.76
4.433	1.27	10.433	3.30	16.433	1.27	22.43	0.76
4.450	1.27	10.450	3.30	16.450	1.27	22.45	0.76

4.467	1.27	10.467	3.30	16.467	1.27	22.47	0.76
4.483	1.27	10.483	3.30	16.483	1.27	22.48	0.76
4.500	1.27	10.500	3.30	16.500	1.27	22.50	0.76
4.517	1.27	10.517	3.30	16.517	1.27	22.52	0.76
4.533	1.27	10.533	3.30	16.533	1.27	22.53	0.76
4.550	1.27	10.550	3.30	16.550	1.27	22.55	0.76
4.567	1.27	10.567	3.30	16.567	1.27	22.57	0.76
4.583	1.27	10.583	3.30	16.583	1.27	22.58	0.76
4.600	1.27	10.600	3.30	16.600	1.27	22.60	0.76
4.617	1.27	10.617	3.30	16.617	1.27	22.62	0.76
4.633	1.27	10.633	3.30	16.633	1.27	22.63	0.76
4.650	1.27	10.650	3.30	16.650	1.27	22.65	0.76
4.667	1.27	10.667	3.30	16.667	1.27	22.67	0.76
4.683	1.27	10.683	3.30	16.683	1.27	22.68	0.76
4.700	1.27	10.700	3.30	16.700	1.27	22.70	0.76
4.717	1.27	10.717	3.30	16.717	1.27	22.72	0.76
4.733	1.27	10.733	3.30	16.733	1.27	22.73	0.76
4.750	1.27	10.750	3.30	16.750	1.27	22.75	0.76
4.767	1.27	10.767	3.30	16.767	1.27	22.77	0.76
4.783	1.27	10.783	3.30	16.783	1.27	22.78	0.76
4.800	1.27	10.800	3.30	16.800	1.27	22.80	0.76
4.817	1.27	10.817	3.30	16.817	1.27	22.82	0.76
4.833	1.27	10.833	3.30	16.833	1.27	22.83	0.76
4.850	1.27	10.850	3.30	16.850	1.27	22.85	0.76
4.867	1.27	10.867	3.30	16.867	1.27	22.87	0.76
4.883	1.27	10.883	3.30	16.883	1.27	22.88	0.76
4.900	1.27	10.900	3.30	16.900	1.27	22.90	0.76
4.917	1.27	10.917	3.30	16.917	1.27	22.92	0.76
4.933	1.27	10.933	3.30	16.933	1.27	22.93	0.76
4.950	1.27	10.950	3.30	16.950	1.27	22.95	0.76
4.967	1.27	10.967	3.30	16.967	1.27	22.97	0.76
4.983	1.27	10.983	3.30	16.983	1.27	22.98	0.76
5.000	1.27	11.000	3.30	17.000	1.27	23.00	0.76
5.017	1.27	11.017	4.57	17.017	1.27	23.02	0.76
5.033	1.27	11.033	4.57	17.033	1.27	23.03	0.76
5.050	1.27	11.050	4.57	17.050	1.27	23.05	0.76
5.067	1.27	11.067	4.57	17.067	1.27	23.07	0.76
5.083	1.27	11.083	4.57	17.083	1.27	23.08	0.76
5.100	1.27	11.100	4.57	17.100	1.27	23.10	0.76
5.117	1.27	11.117	4.57	17.117	1.27	23.12	0.76
5.133	1.27	11.133	4.57	17.133	1.27	23.13	0.76
5.150	1.27	11.150	4.57	17.150	1.27	23.15	0.76
5.167	1.27	11.167	4.57	17.167	1.27	23.17	0.76
5.183	1.27	11.183	4.57	17.183	1.27	23.18	0.76
5.200	1.27	11.200	4.57	17.200	1.27	23.20	0.76
5.217	1.27	11.217	6.60	17.217	1.27	23.22	0.76
5.233	1.27	11.233	6.60	17.233	1.27	23.23	0.76
5.250	1.27	11.250	6.60	17.250	1.27	23.25	0.76
5.267	1.27	11.267	6.60	17.267	1.27	23.27	0.76
5.283	1.27	11.283	6.60	17.283	1.27	23.28	0.76
5.300	1.27	11.300	6.60	17.300	1.27	23.30	0.76
5.317	1.27	11.317	6.60	17.317	1.27	23.32	0.76
5.333	1.27	11.333	6.60	17.333	1.27	23.33	0.76
5.350	1.27	11.350	6.60	17.350	1.27	23.35	0.76
5.367	1.27	11.367	6.60	17.367	1.27	23.37	0.76
5.383	1.27	11.383	6.60	17.383	1.27	23.38	0.76
5.400	1.27	11.400	6.60	17.400	1.27	23.40	0.76
5.417	1.27	11.417	15.24	17.417	1.27	23.42	0.76
5.433	1.27	11.433	15.24	17.433	1.27	23.43	0.76
5.450	1.27	11.450	15.24	17.450	1.27	23.45	0.76
5.467	1.27	11.467	15.24	17.467	1.27	23.47	0.76
5.483	1.27	11.483	15.24	17.483	1.27	23.48	0.76
5.500	1.27	11.500	15.24	17.500	1.27	23.50	0.76
5.517	1.27	11.517	15.24	17.517	1.27	23.52	0.76
5.533	1.27	11.533	15.24	17.533	1.27	23.53	0.76
5.550	1.27	11.550	15.24	17.550	1.27	23.55	0.76
5.567	1.27	11.567	15.24	17.567	1.27	23.57	0.76
5.583	1.27	11.583	15.24	17.583	1.27	23.58	0.76
5.600	1.27	11.600	15.24	17.600	1.27	23.60	0.76
5.617	1.27	11.617	33.26	17.617	1.27	23.62	0.76
5.633	1.27	11.633	33.27	17.633	1.27	23.63	0.76
5.650	1.27	11.650	33.27	17.650	1.27	23.65	0.76
5.667	1.27	11.667	33.27	17.667	1.27	23.67	0.76
5.683	1.27	11.683	33.27	17.683	1.27	23.68	0.76
5.700	1.27	11.700	33.27	17.700	1.27	23.70	0.76
5.717	1.27	11.717	33.27	17.717	1.27	23.72	0.76
5.733	1.27	11.733	33.27	17.733	1.27	23.73	0.76
5.750	1.27	11.750	33.27	17.750	1.27	23.75	0.76
5.767	1.27	11.767	33.27	17.767	1.27	23.77	0.76
5.783	1.27	11.783	33.27	17.783	1.27	23.78	0.76
5.800	1.27	11.800	33.27	17.800	1.27	23.80	0.76
5.817	1.27	11.817	69.58	17.817	1.27	23.82	0.76
5.833	1.27	11.833	69.60	17.833	1.27	23.83	0.76
5.850	1.27	11.850	69.60	17.850	1.27	23.85	0.76
5.867	1.27	11.867	69.60	17.867	1.27	23.87	0.76
5.883	1.27	11.883	69.60	17.883	1.27	23.88	0.76
5.900	1.27	11.900	69.60	17.900	1.27	23.90	0.76
5.917	1.27	11.917	69.60	17.917	1.27	23.92	0.76
5.933	1.27	11.933	69.60	17.933	1.27	23.93	0.76
5.950	1.27	11.950	69.60	17.950	1.27	23.95	0.76
5.967	1.27	11.967	69.60	17.967	1.27	23.97	0.76
5.983	1.27	11.983	69.60	17.983	1.27	23.98	0.76
6.000	1.27	12.000	69.60	18.000	1.27	24.00	0.76

Max.Eff.Inten.(mm/hr)=	69.60	46.70	
over (min)	5.00	5.00	
Storage Coeff. (min)=	2.81 (ii)	4.11 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.32	0.26	
			TOTALS

```
     PEAK FLOW       (cms)=       0.06         0.00          0.059 (iii)
     TIME TO PEAK    (hrs)=      12.00        12.00          12.00
     RUNOFF VOLUME    (mm)=      61.43        35.11          61.16
     TOTAL RAINFALL   (mm)=      62.43        62.43          62.43
     RUNOFF COEFFICIENT   =       0.98         0.56           0.98


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  85.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0102)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0440     0.0083
                          0.0220     0.0041   |   0.0660     0.0124

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2013)     0.310      0.059     12.00      61.16
   OUTFLOW: ID= 1 (  0102)     0.310      0.027     12.10      61.02

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 45.30
                  TIME SHIFT OF PEAK FLOW         (min)=  6.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0050

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0101):     0.23   0.021    12.08    60.79
     + ID2= 2 (  0102):     0.31   0.027    12.10    61.02
       ================================================
       ID = 3 (  0001):     0.54   0.048    12.10    60.92

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 3 (  0001):     0.54   0.048    12.10    60.92
     + ID2= 2 (  0103):     0.15   0.014    12.08    60.90
       ================================================
       ID = 1 (  0001):     0.69   0.062    12.08    60.92

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0204)|   Area    (ha)=   0.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  55.00   Dir. Conn.(%)=  55.00
--------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.18          0.15
     Dep. Storage     (mm)=       1.00          5.00
     Average Slope     (%)=       1.00          2.00
     Length            (m)=      46.60         40.00
     Mannings n           =      0.013         0.250

         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    0.76 | 6.083    1.27 |12.083   12.20 | 18.08    1.27
     0.167    0.76 | 6.167    1.27 |12.167   12.19 | 18.17    1.27
     0.250    0.76 | 6.250    1.27 |12.250    9.45 | 18.25    1.27
     0.333    0.76 | 6.333    1.27 |12.333    7.62 | 18.33    1.27
     0.417    0.76 | 6.417    1.27 |12.417    7.21 | 18.42    1.27
     0.500    0.76 | 6.500    1.27 |12.500    5.59 | 18.50    1.27
     0.583    0.76 | 6.583    1.27 |12.583    5.59 | 18.58    1.27
     0.667    0.76 | 6.667    1.27 |12.667    5.18 | 18.67    1.27
     0.750    0.76 | 6.750    1.27 |12.750    5.08 | 18.75    1.27
     0.833    0.76 | 6.833    1.27 |12.833    4.57 | 18.83    1.27
     0.917    0.76 | 6.917    1.27 |12.917    3.81 | 18.92    1.27
     1.000    0.76 | 7.000    1.27 |13.000    3.81 | 19.00    1.27
     1.083    0.76 | 7.083    1.27 |13.083    3.05 | 19.08    1.02
     1.167    0.76 | 7.167    1.27 |13.167    3.05 | 19.17    1.02
     1.250    0.76 | 7.250    1.27 |13.250    3.05 | 19.25    1.02
     1.333    0.76 | 7.333    1.27 |13.333    3.05 | 19.33    1.02
     1.417    0.76 | 7.417    1.27 |13.417    3.05 | 19.42    1.02
     1.500    0.76 | 7.500    1.27 |13.500    3.05 | 19.50    1.02
     1.583    0.76 | 7.583    1.27 |13.583    3.05 | 19.58    1.02
     1.667    0.76 | 7.667    1.27 |13.667    3.05 | 19.67    1.02
     1.750    0.76 | 7.750    1.27 |13.750    3.05 | 19.75    1.02
     1.833    0.76 | 7.833    1.27 |13.833    3.05 | 19.83    1.02
     1.917    0.76 | 7.917    1.27 |13.917    3.05 | 19.92    1.02
     2.000    0.76 | 8.000    1.27 |14.000    3.05 | 20.00    1.02
     2.083    0.76 | 8.083    1.78 |14.083    1.78 | 20.08    1.02
```

2.167	0.76	8.167	1.78	14.167	1.78	20.17	1.02
2.250	0.76	8.250	1.78	14.250	1.78	20.25	1.02
2.333	0.76	8.333	1.78	14.333	1.78	20.33	1.02
2.417	0.76	8.417	1.78	14.417	1.78	20.42	1.02
2.500	0.76	8.500	1.78	14.500	1.78	20.50	1.02
2.583	0.76	8.583	1.78	14.583	1.78	20.58	1.02
2.667	0.76	8.667	1.78	14.667	1.78	20.67	1.02
2.750	0.76	8.750	1.78	14.750	1.78	20.75	1.02
2.833	0.76	8.833	1.78	14.833	1.78	20.83	1.02
2.917	0.76	8.917	1.78	14.917	1.78	20.92	1.02
3.000	0.76	9.000	1.78	15.000	1.78	21.00	1.02
3.083	0.76	9.083	1.78	15.083	1.78	21.08	0.76
3.167	0.76	9.167	1.78	15.167	1.78	21.17	0.76
3.250	0.76	9.250	1.78	15.250	1.78	21.25	0.76
3.333	0.76	9.333	1.78	15.333	1.78	21.33	0.76
3.417	0.76	9.417	1.78	15.417	1.78	21.42	0.76
3.500	0.76	9.500	1.78	15.500	1.78	21.50	0.76
3.583	0.76	9.583	1.78	15.583	1.78	21.58	0.76
3.667	0.76	9.667	1.78	15.667	1.78	21.67	0.76
3.750	0.76	9.750	1.78	15.750	1.78	21.75	0.76
3.833	0.76	9.833	1.78	15.833	1.78	21.83	0.76
3.917	0.76	9.917	1.78	15.917	1.78	21.92	0.76
4.000	0.76	10.000	1.78	16.000	1.78	22.00	0.76
4.083	1.27	10.083	3.30	16.083	1.27	22.08	0.76
4.167	1.27	10.167	3.30	16.167	1.27	22.17	0.76
4.250	1.27	10.250	3.30	16.250	1.27	22.25	0.76
4.333	1.27	10.333	3.30	16.333	1.27	22.33	0.76
4.417	1.27	10.417	3.30	16.417	1.27	22.42	0.76
4.500	1.27	10.500	3.30	16.500	1.27	22.50	0.76
4.583	1.27	10.583	3.30	16.583	1.27	22.58	0.76
4.667	1.27	10.667	3.30	16.667	1.27	22.67	0.76
4.750	1.27	10.750	3.30	16.750	1.27	22.75	0.76
4.833	1.27	10.833	3.30	16.833	1.27	22.83	0.76
4.917	1.27	10.917	3.30	16.917	1.27	22.92	0.76
5.000	1.27	11.000	3.30	17.000	1.27	23.00	0.76
5.083	1.27	11.083	4.57	17.083	1.27	23.08	0.76
5.167	1.27	11.167	4.57	17.167	1.27	23.17	0.76
5.250	1.27	11.250	5.79	17.250	1.27	23.25	0.76
5.333	1.27	11.333	6.60	17.333	1.27	23.33	0.76
5.417	1.27	11.417	8.33	17.417	1.27	23.42	0.76
5.500	1.27	11.500	15.24	17.500	1.27	23.50	0.76
5.583	1.27	11.583	15.24	17.583	1.27	23.58	0.76
5.667	1.27	11.667	29.66	17.667	1.27	23.67	0.76
5.750	1.27	11.750	33.27	17.750	1.27	23.75	0.76
5.833	1.27	11.833	47.80	17.833	1.27	23.83	0.76
5.917	1.27	11.917	69.60	17.917	1.27	23.92	0.76
6.000	1.27	12.000	69.60	18.000	1.27	24.00	0.76

Max.Eff.Inten.(mm/hr)=	69.60	15.85
over (min)	5.00	20.00

Storage Coeff. (min)=	1.87 (ii)	16.61 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.32	0.06	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.037 (iii)
TIME TO PEAK (hrs)=	12.00	12.17	12.00
RUNOFF VOLUME (mm)=	61.43	14.10	40.10
TOTAL RAINFALL (mm)=	62.43	62.43	62.43
RUNOFF COEFFICIENT =	0.98	0.23	0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0002)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0001):	0.69	0.062	12.08	60.92
+ ID2= 2 (2011):	1.84	0.277	12.00	50.54
ID = 3 (0002):	2.53	0.331	12.00	53.36

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0002)				
3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0002):	2.53	0.331	12.00	53.36
+ ID2= 2 (0204):	0.33	0.037	12.00	40.10
ID = 1 (0002):	2.85	0.368	12.00	51.85

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CHAMBER(0025)	OUTFLOW: ON, UNDERDRAIN: OFF, INFIL: OFF
IN= 2--> OUT= 3	CHAMBER:
DT= 5.0 min	MAX STO VOL (cu.m.)= 710.04 Bottom Area(m2) = 614.46

DEPTH	STORAGE	DEPTH	STORAGE
(mm)	(cu.m.)	(mm)	(cu.m.)

	0.00	0.00	864.00	430.26
	25.00	13.40	889.00	441.69
	51.00	26.76	914.00	453.02
	76.00	40.09	940.00	464.23
	102.00	53.40	965.00	475.34
	127.00	66.68	991.00	486.32
	152.00	79.92	1016.00	497.18
	178.00	93.14	1041.00	507.92
	203.00	106.32	1067.00	518.52
	229.00	119.46	1092.00	528.98
	254.00	132.57	1118.00	539.29
	279.00	145.64	1143.00	549.44
	305.00	158.66	1168.00	559.43
	330.00	171.65	1194.00	569.25
	356.00	184.58	1219.00	578.88
	381.00	197.47	1245.00	588.32
	406.00	210.31	1270.00	597.54
	432.00	223.09	1295.00	606.52
	457.00	235.83	1321.00	615.24
	483.00	248.51	1346.00	623.67
	508.00	261.13	1372.00	631.72
	533.00	273.68	1397.00	639.20
	559.00	286.18	1422.00	646.18
	584.00	298.61	1448.00	653.00
	610.00	310.97	1473.00	659.69
	635.00	323.26	1499.00	666.24
	660.00	335.48	1524.00	672.59
	686.00	347.62	1549.00	678.83
	711.00	359.68	1575.00	685.08
	737.00	371.67	1600.00	691.32
	762.00	383.57	1626.00	697.56
	787.00	395.38	1651.00	703.80
	813.00	407.10	1676.00	710.04
	838.00	418.73	0.00	0.00

	DEPTH (m)	DISCHARGE (cms)	DEPTH (m)	DISCHARGE (cms)
	0.000	0.000	1.255	0.504
	0.455	0.000	1.355	0.535
	0.555	0.178	1.455	0.564
	0.655	0.252	1.555	0.591
	0.755	0.309	1.655	0.617
	0.855	0.356	1.755	0.643
	0.955	0.399	1.855	0.667
	1.055	0.437	1.955	0.690
	1.155	0.472	2.055	0.713

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW:ID= 2	2.85	0.368	12.00	51.85
OUTFLOW:ID= 1	2.85	0.276	12.03	43.61
OVERFLOW:ID= 3	0.00	0.000	0.00	0.00

Volume Reduction Rate[(RVin-RVout)/RVin](%)= 15.88
Time to reach Max storage (Hr)= 12.03
Volume of water for drawdown in LID (cu.m.)= 234.87
Volume of maximum water storage (cu.m.)= 336.76
***** After simulation, water volume is not zero.

Junction Command(0034)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

Junction Command(0035)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.28	12.03	43.61
OUTFLOW: ID= 2(0035)	2.85	0.28	12.03	43.61

CALIB STANDHYD (0202) ID= 1 DT= 5.0 min	Area (ha)= 0.10 Total Imp(%)= 11.00 Dir. Conn.(%)= 11.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.09
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	25.66	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.76	6.083	1.27	12.083	12.20	18.08	1.27
0.167	0.76	6.167	1.27	12.167	12.19	18.17	1.27

0.250	0.76	6.250	1.27	12.250	9.45	18.25	1.27
0.333	0.76	6.333	1.27	12.333	7.62	18.33	1.27
0.417	0.76	6.417	1.27	12.417	7.21	18.42	1.27
0.500	0.76	6.500	1.27	12.500	5.59	18.50	1.27
0.583	0.76	6.583	1.27	12.583	5.59	18.58	1.27
0.667	0.76	6.667	1.27	12.667	5.18	18.67	1.27
0.750	0.76	6.750	1.27	12.750	5.08	18.75	1.27
0.833	0.76	6.833	1.27	12.833	4.57	18.83	1.27
0.917	0.76	6.917	1.27	12.917	3.81	18.92	1.27
1.000	0.76	7.000	1.27	13.000	3.81	19.00	1.27
1.083	0.76	7.083	1.27	13.083	3.05	19.08	1.02
1.167	0.76	7.167	1.27	13.167	3.05	19.17	1.02
1.250	0.76	7.250	1.27	13.250	3.05	19.25	1.02
1.333	0.76	7.333	1.27	13.333	3.05	19.33	1.02
1.417	0.76	7.417	1.27	13.417	3.05	19.42	1.02
1.500	0.76	7.500	1.27	13.500	3.05	19.50	1.02
1.583	0.76	7.583	1.27	13.583	3.05	19.58	1.02
1.667	0.76	7.667	1.27	13.667	3.05	19.67	1.02
1.750	0.76	7.750	1.27	13.750	3.05	19.75	1.02
1.833	0.76	7.833	1.27	13.833	3.05	19.83	1.02
1.917	0.76	7.917	1.27	13.917	3.05	19.92	1.02
2.000	0.76	8.000	1.27	14.000	3.05	20.00	1.02
2.083	0.76	8.083	1.78	14.083	1.78	20.08	1.02
2.167	0.76	8.167	1.78	14.167	1.78	20.17	1.02
2.250	0.76	8.250	1.78	14.250	1.78	20.25	1.02
2.333	0.76	8.333	1.78	14.333	1.78	20.33	1.02
2.417	0.76	8.417	1.78	14.417	1.78	20.42	1.02
2.500	0.76	8.500	1.78	14.500	1.78	20.50	1.02
2.583	0.76	8.583	1.78	14.583	1.78	20.58	1.02
2.667	0.76	8.667	1.78	14.667	1.78	20.67	1.02
2.750	0.76	8.750	1.78	14.750	1.78	20.75	1.02
2.833	0.76	8.833	1.78	14.833	1.78	20.83	1.02
2.917	0.76	8.917	1.78	14.917	1.78	20.92	1.02
3.000	0.76	9.000	1.78	15.000	1.78	21.00	1.02
3.083	0.76	9.083	1.78	15.083	1.78	21.08	0.76
3.167	0.76	9.167	1.78	15.167	1.78	21.17	0.76
3.250	0.76	9.250	1.78	15.250	1.78	21.25	0.76
3.333	0.76	9.333	1.78	15.333	1.78	21.33	0.76
3.417	0.76	9.417	1.78	15.417	1.78	21.42	0.76
3.500	0.76	9.500	1.78	15.500	1.78	21.50	0.76
3.583	0.76	9.583	1.78	15.583	1.78	21.58	0.76
3.667	0.76	9.667	1.78	15.667	1.78	21.67	0.76
3.750	0.76	9.750	1.78	15.750	1.78	21.75	0.76
3.833	0.76	9.833	1.78	15.833	1.78	21.83	0.76
3.917	0.76	9.917	1.78	15.917	1.78	21.92	0.76
4.000	0.76	10.000	1.78	16.000	1.78	22.00	0.76
4.083	1.27	10.083	3.30	16.083	1.27	22.08	0.76
4.167	1.27	10.167	3.30	16.167	1.27	22.17	0.76
4.250	1.27	10.250	3.30	16.250	1.27	22.25	0.76
4.333	1.27	10.333	3.30	16.333	1.27	22.33	0.76
4.417	1.27	10.417	3.30	16.417	1.27	22.42	0.76
4.500	1.27	10.500	3.30	16.500	1.27	22.50	0.76
4.583	1.27	10.583	3.30	16.583	1.27	22.58	0.76
4.667	1.27	10.667	3.30	16.667	1.27	22.67	0.76
4.750	1.27	10.750	3.30	16.750	1.27	22.75	0.76
4.833	1.27	10.833	3.30	16.833	1.27	22.83	0.76
4.917	1.27	10.917	3.30	16.917	1.27	22.92	0.76
5.000	1.27	11.000	3.30	17.000	1.27	23.00	0.76
5.083	1.27	11.083	4.57	17.083	1.27	23.08	0.76
5.167	1.27	11.167	4.57	17.167	1.27	23.17	0.76
5.250	1.27	11.250	5.79	17.250	1.27	23.25	0.76
5.333	1.27	11.333	6.60	17.333	1.27	23.33	0.76
5.417	1.27	11.417	8.33	17.417	1.27	23.42	0.76
5.500	1.27	11.500	15.24	17.500	1.27	23.50	0.76
5.583	1.27	11.583	15.24	17.583	1.27	23.58	0.76
5.667	1.27	11.667	29.66	17.667	1.27	23.67	0.76
5.750	1.27	11.750	33.27	17.750	1.27	23.75	0.76
5.833	1.27	11.833	47.80	17.833	1.27	23.83	0.76
5.917	1.27	11.917	69.60	17.917	1.27	23.92	0.76
6.000	1.27	12.000	69.60	18.000	1.27	24.00	0.76

Max.Eff.Inten.(mm/hr)=	69.60	15.85	
over (min)	5.00	20.00	
Storage Coeff. (min)=	1.31 (ii)	16.05 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.33	0.06	
			TOTALS
PEAK FLOW (cms)=	0.00	0.00	0.004 (iii)
TIME TO PEAK (hrs)=	12.00	12.17	12.00
RUNOFF VOLUME (mm)=	61.43	14.10	19.20
TOTAL RAINFALL (mm)=	62.43	62.43	62.43
RUNOFF COEFFICIENT =	0.98	0.23	0.31

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0203)	Area (ha)=	0.05	
ID= 1 DT= 5.0 min	Total Imp(%)=	27.00	Dir. Conn.(%)= 27.00

	IMPERVIOUS	PERVIOUS (i)

Surface Area	(ha)=	0.01	0.04
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	18.90	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.76	6.083	1.27	12.083	12.20	18.08	1.27
0.167	0.76	6.167	1.27	12.167	12.19	18.17	1.27
0.250	0.76	6.250	1.27	12.250	9.45	18.25	1.27
0.333	0.76	6.333	1.27	12.333	7.62	18.33	1.27
0.417	0.76	6.417	1.27	12.417	7.21	18.42	1.27
0.500	0.76	6.500	1.27	12.500	5.59	18.50	1.27
0.583	0.76	6.583	1.27	12.583	5.59	18.58	1.27
0.667	0.76	6.667	1.27	12.667	5.18	18.67	1.27
0.750	0.76	6.750	1.27	12.750	5.08	18.75	1.27
0.833	0.76	6.833	1.27	12.833	4.57	18.83	1.27
0.917	0.76	6.917	1.27	12.917	3.81	18.92	1.27
1.000	0.76	7.000	1.27	13.000	3.81	19.00	1.27
1.083	0.76	7.083	1.27	13.083	3.05	19.08	1.02
1.167	0.76	7.167	1.27	13.167	3.05	19.17	1.02
1.250	0.76	7.250	1.27	13.250	3.05	19.25	1.02
1.333	0.76	7.333	1.27	13.333	3.05	19.33	1.02
1.417	0.76	7.417	1.27	13.417	3.05	19.42	1.02
1.500	0.76	7.500	1.27	13.500	3.05	19.50	1.02
1.583	0.76	7.583	1.27	13.583	3.05	19.58	1.02
1.667	0.76	7.667	1.27	13.667	3.05	19.67	1.02
1.750	0.76	7.750	1.27	13.750	3.05	19.75	1.02
1.833	0.76	7.833	1.27	13.833	3.05	19.83	1.02
1.917	0.76	7.917	1.27	13.917	3.05	19.92	1.02
2.000	0.76	8.000	1.27	14.000	3.05	20.00	1.02
2.083	0.76	8.083	1.78	14.083	1.78	20.08	1.02
2.167	0.76	8.167	1.78	14.167	1.78	20.17	1.02
2.250	0.76	8.250	1.78	14.250	1.78	20.25	1.02
2.333	0.76	8.333	1.78	14.333	1.78	20.33	1.02
2.417	0.76	8.417	1.78	14.417	1.78	20.42	1.02
2.500	0.76	8.500	1.78	14.500	1.78	20.50	1.02
2.583	0.76	8.583	1.78	14.583	1.78	20.58	1.02
2.667	0.76	8.667	1.78	14.667	1.78	20.67	1.02
2.750	0.76	8.750	1.78	14.750	1.78	20.75	1.02
2.833	0.76	8.833	1.78	14.833	1.78	20.83	1.02
2.917	0.76	8.917	1.78	14.917	1.78	20.92	1.02
3.000	0.76	9.000	1.78	15.000	1.78	21.00	1.02
3.083	0.76	9.083	1.78	15.083	1.78	21.08	0.76
3.167	0.76	9.167	1.78	15.167	1.78	21.17	0.76
3.250	0.76	9.250	1.78	15.250	1.78	21.25	0.76
3.333	0.76	9.333	1.78	15.333	1.78	21.33	0.76
3.417	0.76	9.417	1.78	15.417	1.78	21.42	0.76
3.500	0.76	9.500	1.78	15.500	1.78	21.50	0.76
3.583	0.76	9.583	1.78	15.583	1.78	21.58	0.76
3.667	0.76	9.667	1.78	15.667	1.78	21.67	0.76
3.750	0.76	9.750	1.78	15.750	1.78	21.75	0.76
3.833	0.76	9.833	1.78	15.833	1.78	21.83	0.76
3.917	0.76	9.917	1.78	15.917	1.78	21.92	0.76
4.000	0.76	10.000	1.78	16.000	1.78	22.00	0.76
4.083	1.27	10.083	3.30	16.083	1.27	22.08	0.76
4.167	1.27	10.167	3.30	16.167	1.27	22.17	0.76
4.250	1.27	10.250	3.30	16.250	1.27	22.25	0.76
4.333	1.27	10.333	3.30	16.333	1.27	22.33	0.76
4.417	1.27	10.417	3.30	16.417	1.27	22.42	0.76
4.500	1.27	10.500	3.30	16.500	1.27	22.50	0.76
4.583	1.27	10.583	3.30	16.583	1.27	22.58	0.76
4.667	1.27	10.667	3.30	16.667	1.27	22.67	0.76
4.750	1.27	10.750	3.30	16.750	1.27	22.75	0.76
4.833	1.27	10.833	3.30	16.833	1.27	22.83	0.76
4.917	1.27	10.917	3.30	16.917	1.27	22.92	0.76
5.000	1.27	11.000	3.30	17.000	1.27	23.00	0.76
5.083	1.27	11.083	4.57	17.083	1.27	23.08	0.76
5.167	1.27	11.167	4.57	17.167	1.27	23.17	0.76
5.250	1.27	11.250	5.79	17.250	1.27	23.25	0.76
5.333	1.27	11.333	6.60	17.333	1.27	23.33	0.76
5.417	1.27	11.417	8.33	17.417	1.27	23.42	0.76
5.500	1.27	11.500	15.24	17.500	1.27	23.50	0.76
5.583	1.27	11.583	15.24	17.583	1.27	23.58	0.76
5.667	1.27	11.667	29.66	17.667	1.27	23.67	0.76
5.750	1.27	11.750	33.27	17.750	1.27	23.75	0.76
5.833	1.27	11.833	47.80	17.833	1.27	23.83	0.76
5.917	1.27	11.917	69.60	17.917	1.27	23.92	0.76
6.000	1.27	12.000	69.60	18.000	1.27	24.00	0.76

Max.Eff.Inten.(mm/hr)=	69.60	15.85		
over (min)	5.00	20.00		
Storage Coeff. (min)=	1.09 (ii)	15.83 (ii)		
Unit Hyd. Tpeak (min)=	5.00	20.00		
Unit Hyd. peak (cms)=	0.34	0.07		
				TOTALS
PEAK FLOW (cms)=	0.00	0.00		0.004 (iii)
TIME TO PEAK (hrs)=	12.00	12.17		12.00
RUNOFF VOLUME (mm)=	61.43	14.10		24.25
TOTAL RAINFALL (mm)=	62.43	62.43		62.43
RUNOFF COEFFICIENT =	0.98	0.23		0.39

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

```
           CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0202):     0.10   0.004    12.00    19.20
     + ID2= 2 (  0203):     0.05   0.004    12.00    24.25
       ================================================
       ID = 3 (  0003):     0.15   0.007    12.00    20.98

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
*** W A R N I N G :  HYDROGRAPH   0034 <ID= 2> IS DRY.
*** W A R N I N G :  HYDROGRAPH   0001 = HYDROGRAPH 0003
       ID1= 3 (  0003):     0.15   0.007    12.00    20.98
     + ID2= 2 (  0034):     0.00   0.000     0.00     0.00
       ================================================
       ID = 1 (  0003):     0.15   0.007    12.00    20.98

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0003):     0.15   0.007    12.00    20.98
     + ID2= 2 (  0035):     2.85   0.276    12.03    43.61
       ================================================
       ID = 3 (  0003):     3.00   0.282    12.03    42.47

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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*******************************
** SIMULATION:1.2 10Y24HSCS   **
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--------------------
|    READ STORM    |    Filename: C:\Users\CAAS077425\AppD
|                  |              ata\Local\Temp\
|                  |              928a9435-1a45-4733-a537-3482c3d30588\1fa868dc
| Ptotal= 79.93 mm |    Comments: 10Y24HSCS
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
                0.00    0.78 |  6.00    1.56 | 12.00   16.36 | 18.00    1.17
                0.20    0.78 |  6.20    1.56 | 12.20   10.12 | 18.20    1.17
                0.40    0.78 |  6.40    1.56 | 12.40    7.41 | 18.40    1.17
                0.60    0.78 |  6.60    1.56 | 12.60    7.01 | 18.60    1.17
                0.80    0.78 |  6.80    1.56 | 12.80    5.06 | 18.80    1.17
                1.00    0.78 |  7.00    1.56 | 13.00    4.28 | 19.00    1.17
                1.20    0.78 |  7.20    1.56 | 13.20    4.28 | 19.20    1.17
                1.40    0.78 |  7.40    1.56 | 13.40    4.28 | 19.40    1.17
                1.60    0.78 |  7.60    1.56 | 13.60    4.28 | 19.60    1.17
                1.80    0.78 |  7.80    1.56 | 13.80    4.28 | 19.80    1.17
                2.00    0.78 |  8.00    2.33 | 14.00    2.33 | 20.00    0.78
                2.20    0.78 |  8.20    2.33 | 14.20    2.33 | 20.20    0.78
                2.40    0.78 |  8.40    2.33 | 14.40    2.33 | 20.40    0.78
                2.60    0.78 |  8.60    2.33 | 14.60    2.33 | 20.60    0.78
                2.80    0.78 |  8.80    2.33 | 14.80    2.33 | 20.80    0.78
                3.00    0.78 |  9.00    2.33 | 15.00    2.33 | 21.00    0.78
                3.20    0.78 |  9.20    2.33 | 15.20    2.33 | 21.20    0.78
                3.40    0.78 |  9.40    2.33 | 15.40    2.33 | 21.40    0.78
                3.60    0.78 |  9.60    2.33 | 15.60    2.33 | 21.60    0.78
                3.80    0.78 |  9.80    2.33 | 15.80    2.33 | 21.80    0.78
                4.00    1.56 | 10.00    4.68 | 16.00    1.56 | 22.00    0.78
                4.20    1.56 | 10.20    4.68 | 16.20    1.56 | 22.20    0.78
                4.40    1.56 | 10.40    4.68 | 16.40    1.56 | 22.40    0.78
                4.60    1.56 | 10.60    4.68 | 16.60    1.56 | 22.60    0.78
                4.80    1.56 | 10.80    4.68 | 16.80    1.56 | 22.80    0.78
                5.00    1.56 | 11.00    6.23 | 17.00    1.56 | 23.00    0.78
                5.20    1.56 | 11.20    8.96 | 17.20    1.56 | 23.20    0.78
                5.40    1.56 | 11.40   20.26 | 17.40    1.56 | 23.40    0.78
                5.60    1.56 | 11.60   44.42 | 17.60    1.56 | 23.60    0.78
                5.80    1.56 | 11.80   92.71 | 17.80    1.56 | 23.80    0.78

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| CALIB            |
| STANDHYD (  2011)|   Area    (ha)=   1.84
|ID= 1 DT= 5.0 min |   Total Imp(%)=  77.00   Dir. Conn.(%)=  77.00
--------------------

                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       1.42          0.42
     Dep. Storage     (mm)=       1.00          5.00
     Average Slope     (%)=       1.00          2.00
     Length            (m)=     110.72         40.00
     Mannings n           =      0.013         0.250
```

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.78	6.083	1.56	12.083	16.37	18.08	1.17
0.167	0.78	6.167	1.56	12.167	16.36	18.17	1.17
0.250	0.78	6.250	1.56	12.250	12.62	18.25	1.17
0.333	0.78	6.333	1.56	12.333	10.12	18.33	1.17
0.417	0.78	6.417	1.56	12.417	9.58	18.42	1.17
0.500	0.78	6.500	1.56	12.500	7.41	18.50	1.17
0.583	0.78	6.583	1.56	12.583	7.41	18.58	1.17
0.667	0.78	6.667	1.56	12.667	7.09	18.67	1.17
0.750	0.78	6.750	1.56	12.750	7.01	18.75	1.17
0.833	0.78	6.833	1.56	12.833	6.23	18.83	1.17
0.917	0.78	6.917	1.56	12.917	5.06	18.92	1.17
1.000	0.78	7.000	1.56	13.000	5.06	19.00	1.17
1.083	0.78	7.083	1.56	13.083	4.28	19.08	1.17
1.167	0.78	7.167	1.56	13.167	4.28	19.17	1.17
1.250	0.78	7.250	1.56	13.250	4.28	19.25	1.17
1.333	0.78	7.333	1.56	13.333	4.28	19.33	1.17
1.417	0.78	7.417	1.56	13.417	4.28	19.42	1.17
1.500	0.78	7.500	1.56	13.500	4.28	19.50	1.17
1.583	0.78	7.583	1.56	13.583	4.28	19.58	1.17
1.667	0.78	7.667	1.56	13.667	4.28	19.67	1.17
1.750	0.78	7.750	1.56	13.750	4.28	19.75	1.17
1.833	0.78	7.833	1.56	13.833	4.28	19.83	1.17
1.917	0.78	7.917	1.56	13.917	4.28	19.92	1.17
2.000	0.78	8.000	1.56	14.000	4.28	20.00	1.17
2.083	0.78	8.083	2.33	14.083	2.33	20.08	0.78
2.167	0.78	8.167	2.33	14.167	2.33	20.17	0.78
2.250	0.78	8.250	2.33	14.250	2.33	20.25	0.78
2.333	0.78	8.333	2.33	14.333	2.33	20.33	0.78
2.417	0.78	8.417	2.33	14.417	2.33	20.42	0.78
2.500	0.78	8.500	2.33	14.500	2.33	20.50	0.78
2.583	0.78	8.583	2.33	14.583	2.33	20.58	0.78
2.667	0.78	8.667	2.33	14.667	2.33	20.67	0.78
2.750	0.78	8.750	2.33	14.750	2.33	20.75	0.78
2.833	0.78	8.833	2.33	14.833	2.33	20.83	0.78
2.917	0.78	8.917	2.33	14.917	2.33	20.92	0.78
3.000	0.78	9.000	2.33	15.000	2.33	21.00	0.78
3.083	0.78	9.083	2.33	15.083	2.33	21.08	0.78
3.167	0.78	9.167	2.33	15.167	2.33	21.17	0.78
3.250	0.78	9.250	2.33	15.250	2.33	21.25	0.78
3.333	0.78	9.333	2.33	15.333	2.33	21.33	0.78
3.417	0.78	9.417	2.33	15.417	2.33	21.42	0.78
3.500	0.78	9.500	2.33	15.500	2.33	21.50	0.78
3.583	0.78	9.583	2.33	15.583	2.33	21.58	0.78
3.667	0.78	9.667	2.33	15.667	2.33	21.67	0.78
3.750	0.78	9.750	2.33	15.750	2.33	21.75	0.78
3.833	0.78	9.833	2.33	15.833	2.33	21.83	0.78
3.917	0.78	9.917	2.33	15.917	2.33	21.92	0.78
4.000	0.78	10.000	2.33	16.000	2.33	22.00	0.78
4.083	1.56	10.083	4.68	16.083	1.56	22.08	0.78
4.167	1.56	10.167	4.68	16.167	1.56	22.17	0.78
4.250	1.56	10.250	4.68	16.250	1.56	22.25	0.78
4.333	1.56	10.333	4.68	16.333	1.56	22.33	0.78
4.417	1.56	10.417	4.68	16.417	1.56	22.42	0.78
4.500	1.56	10.500	4.68	16.500	1.56	22.50	0.78
4.583	1.56	10.583	4.68	16.583	1.56	22.58	0.78
4.667	1.56	10.667	4.68	16.667	1.56	22.67	0.78
4.750	1.56	10.750	4.68	16.750	1.56	22.75	0.78
4.833	1.56	10.833	4.68	16.833	1.56	22.83	0.78
4.917	1.56	10.917	4.68	16.917	1.56	22.92	0.78
5.000	1.56	11.000	4.68	17.000	1.56	23.00	0.78
5.083	1.56	11.083	6.23	17.083	1.56	23.08	0.78
5.167	1.56	11.167	6.23	17.167	1.56	23.17	0.78
5.250	1.56	11.250	7.87	17.250	1.56	23.25	0.78
5.333	1.56	11.333	8.96	17.333	1.56	23.33	0.78
5.417	1.56	11.417	11.22	17.417	1.56	23.42	0.78
5.500	1.56	11.500	20.26	17.500	1.56	23.50	0.78
5.583	1.56	11.583	20.26	17.583	1.56	23.58	0.78
5.667	1.56	11.667	39.59	17.667	1.56	23.67	0.78
5.750	1.56	11.750	44.42	17.750	1.56	23.75	0.78
5.833	1.56	11.833	63.73	17.833	1.56	23.83	0.78
5.917	1.56	11.917	92.71	17.917	1.56	23.92	0.78
6.000	1.56	12.000	92.71	18.000	1.56	24.00	0.78

Max.Eff.Inten.(mm/hr)=	92.71	31.29		
over (min)	5.00	10.00		
Storage Coeff. (min)=	2.80 (ii)	7.29 (ii)		
Unit Hyd. Tpeak (min)=	5.00	10.00		
Unit Hyd. peak (cms)=	0.28	0.14		
				TOTALS
PEAK FLOW (cms)=	0.36	0.03		0.388 (iii)
TIME TO PEAK (hrs)=	12.00	12.00		12.00
RUNOFF VOLUME (mm)=	78.93	22.33		65.91
TOTAL RAINFALL (mm)=	79.93	79.93		79.93
RUNOFF COEFFICIENT =	0.99	0.28		0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB            |
| STANDHYD (  2012)|   Area    (ha)=   0.23
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
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                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.23         0.00
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       0.50         2.00
     Length            (m)=      67.00        40.00
     Mannings n             =     0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
0.017    0.78 | 6.017    1.56 |12.017   16.41 | 18.02    1.17
0.033    0.78 | 6.033    1.56 |12.033   16.36 | 18.03    1.17
0.050    0.78 | 6.050    1.56 |12.050   16.36 | 18.05    1.17
0.067    0.78 | 6.067    1.56 |12.067   16.36 | 18.07    1.17
0.083    0.78 | 6.083    1.56 |12.083   16.36 | 18.08    1.17
0.100    0.78 | 6.100    1.56 |12.100   16.36 | 18.10    1.17
0.117    0.78 | 6.117    1.56 |12.117   16.36 | 18.12    1.17
0.133    0.78 | 6.133    1.56 |12.133   16.36 | 18.13    1.17
0.150    0.78 | 6.150    1.56 |12.150   16.36 | 18.15    1.17
0.167    0.78 | 6.167    1.56 |12.167   16.36 | 18.17    1.17
0.183    0.78 | 6.183    1.56 |12.183   16.36 | 18.18    1.17
0.200    0.78 | 6.200    1.56 |12.200   16.36 | 18.20    1.17
0.217    0.78 | 6.217    1.56 |12.217   10.13 | 18.22    1.17
0.233    0.78 | 6.233    1.56 |12.233   10.12 | 18.23    1.17
0.250    0.78 | 6.250    1.56 |12.250   10.12 | 18.25    1.17
0.267    0.78 | 6.267    1.56 |12.267   10.12 | 18.27    1.17
0.283    0.78 | 6.283    1.56 |12.283   10.12 | 18.28    1.17
0.300    0.78 | 6.300    1.56 |12.300   10.12 | 18.30    1.17
0.317    0.78 | 6.317    1.56 |12.317   10.12 | 18.32    1.17
0.333    0.78 | 6.333    1.56 |12.333   10.12 | 18.33    1.17
0.350    0.78 | 6.350    1.56 |12.350   10.12 | 18.35    1.17
0.367    0.78 | 6.367    1.56 |12.367   10.12 | 18.37    1.17
0.383    0.78 | 6.383    1.56 |12.383   10.12 | 18.38    1.17
0.400    0.78 | 6.400    1.56 |12.400   10.12 | 18.40    1.17
0.417    0.78 | 6.417    1.56 |12.417    7.41 | 18.42    1.17
0.433    0.78 | 6.433    1.56 |12.433    7.41 | 18.43    1.17
0.450    0.78 | 6.450    1.56 |12.450    7.41 | 18.45    1.17
0.467    0.78 | 6.467    1.56 |12.467    7.41 | 18.47    1.17
0.483    0.78 | 6.483    1.56 |12.483    7.41 | 18.48    1.17
0.500    0.78 | 6.500    1.56 |12.500    7.41 | 18.50    1.17
0.517    0.78 | 6.517    1.56 |12.517    7.41 | 18.52    1.17
0.533    0.78 | 6.533    1.56 |12.533    7.41 | 18.53    1.17
0.550    0.78 | 6.550    1.56 |12.550    7.41 | 18.55    1.17
0.567    0.78 | 6.567    1.56 |12.567    7.41 | 18.57    1.17
0.583    0.78 | 6.583    1.56 |12.583    7.41 | 18.58    1.17
0.600    0.78 | 6.600    1.56 |12.600    7.41 | 18.60    1.17
0.617    0.78 | 6.617    1.56 |12.617    7.01 | 18.62    1.17
0.633    0.78 | 6.633    1.56 |12.633    7.01 | 18.63    1.17
0.650    0.78 | 6.650    1.56 |12.650    7.01 | 18.65    1.17
0.667    0.78 | 6.667    1.56 |12.667    7.01 | 18.67    1.17
0.683    0.78 | 6.683    1.56 |12.683    7.01 | 18.68    1.17
0.700    0.78 | 6.700    1.56 |12.700    7.01 | 18.70    1.17
0.717    0.78 | 6.717    1.56 |12.717    7.01 | 18.72    1.17
0.733    0.78 | 6.733    1.56 |12.733    7.01 | 18.73    1.17
0.750    0.78 | 6.750    1.56 |12.750    7.01 | 18.75    1.17
0.767    0.78 | 6.767    1.56 |12.767    7.01 | 18.77    1.17
0.783    0.78 | 6.783    1.56 |12.783    7.01 | 18.78    1.17
0.800    0.78 | 6.800    1.56 |12.800    7.01 | 18.80    1.17
0.817    0.78 | 6.817    1.56 |12.817    5.06 | 18.82    1.17
0.833    0.78 | 6.833    1.56 |12.833    5.06 | 18.83    1.17
0.850    0.78 | 6.850    1.56 |12.850    5.06 | 18.85    1.17
0.867    0.78 | 6.867    1.56 |12.867    5.06 | 18.87    1.17
0.883    0.78 | 6.883    1.56 |12.883    5.06 | 18.88    1.17
0.900    0.78 | 6.900    1.56 |12.900    5.06 | 18.90    1.17
0.917    0.78 | 6.917    1.56 |12.917    5.06 | 18.92    1.17
0.933    0.78 | 6.933    1.56 |12.933    5.06 | 18.93    1.17
0.950    0.78 | 6.950    1.56 |12.950    5.06 | 18.95    1.17
0.967    0.78 | 6.967    1.56 |12.967    5.06 | 18.97    1.17
0.983    0.78 | 6.983    1.56 |12.983    5.06 | 18.98    1.17
1.000    0.78 | 7.000    1.56 |13.000    5.06 | 19.00    1.17
1.017    0.78 | 7.017    1.56 |13.017    4.28 | 19.02    1.17
1.033    0.78 | 7.033    1.56 |13.033    4.28 | 19.03    1.17
1.050    0.78 | 7.050    1.56 |13.050    4.28 | 19.05    1.17
1.067    0.78 | 7.067    1.56 |13.067    4.28 | 19.07    1.17
1.083    0.78 | 7.083    1.56 |13.083    4.28 | 19.08    1.17
1.100    0.78 | 7.100    1.56 |13.100    4.28 | 19.10    1.17
1.117    0.78 | 7.117    1.56 |13.117    4.28 | 19.12    1.17
1.133    0.78 | 7.133    1.56 |13.133    4.28 | 19.13    1.17
1.150    0.78 | 7.150    1.56 |13.150    4.28 | 19.15    1.17
1.167    0.78 | 7.167    1.56 |13.167    4.28 | 19.17    1.17
1.183    0.78 | 7.183    1.56 |13.183    4.28 | 19.18    1.17
1.200    0.78 | 7.200    1.56 |13.200    4.28 | 19.20    1.17
1.217    0.78 | 7.217    1.56 |13.217    4.28 | 19.22    1.17
1.233    0.78 | 7.233    1.56 |13.233    4.28 | 19.23    1.17
1.250    0.78 | 7.250    1.56 |13.250    4.28 | 19.25    1.17
1.267    0.78 | 7.267    1.56 |13.267    4.28 | 19.27    1.17
1.283    0.78 | 7.283    1.56 |13.283    4.28 | 19.28    1.17
1.300    0.78 | 7.300    1.56 |13.300    4.28 | 19.30    1.17
1.317    0.78 | 7.317    1.56 |13.317    4.28 | 19.32    1.17
1.333    0.78 | 7.333    1.56 |13.333    4.28 | 19.33    1.17
1.350    0.78 | 7.350    1.56 |13.350    4.28 | 19.35    1.17
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1.367	0.78	7.367	1.56	13.367	4.28	19.37	1.17
1.383	0.78	7.383	1.56	13.383	4.28	19.38	1.17
1.400	0.78	7.400	1.56	13.400	4.28	19.40	1.17
1.417	0.78	7.417	1.56	13.417	4.28	19.42	1.17
1.433	0.78	7.433	1.56	13.433	4.28	19.43	1.17
1.450	0.78	7.450	1.56	13.450	4.28	19.45	1.17
1.467	0.78	7.467	1.56	13.467	4.28	19.47	1.17
1.483	0.78	7.483	1.56	13.483	4.28	19.48	1.17
1.500	0.78	7.500	1.56	13.500	4.28	19.50	1.17
1.517	0.78	7.517	1.56	13.517	4.28	19.52	1.17
1.533	0.78	7.533	1.56	13.533	4.28	19.53	1.17
1.550	0.78	7.550	1.56	13.550	4.28	19.55	1.17
1.567	0.78	7.567	1.56	13.567	4.28	19.57	1.17
1.583	0.78	7.583	1.56	13.583	4.28	19.58	1.17
1.600	0.78	7.600	1.56	13.600	4.28	19.60	1.17
1.617	0.78	7.617	1.56	13.617	4.28	19.62	1.17
1.633	0.78	7.633	1.56	13.633	4.28	19.63	1.17
1.650	0.78	7.650	1.56	13.650	4.28	19.65	1.17
1.667	0.78	7.667	1.56	13.667	4.28	19.67	1.17
1.683	0.78	7.683	1.56	13.683	4.28	19.68	1.17
1.700	0.78	7.700	1.56	13.700	4.28	19.70	1.17
1.717	0.78	7.717	1.56	13.717	4.28	19.72	1.17
1.733	0.78	7.733	1.56	13.733	4.28	19.73	1.17
1.750	0.78	7.750	1.56	13.750	4.28	19.75	1.17
1.767	0.78	7.767	1.56	13.767	4.28	19.77	1.17
1.783	0.78	7.783	1.56	13.783	4.28	19.78	1.17
1.800	0.78	7.800	1.56	13.800	4.28	19.80	1.17
1.817	0.78	7.817	1.56	13.817	4.28	19.82	1.17
1.833	0.78	7.833	1.56	13.833	4.28	19.83	1.17
1.850	0.78	7.850	1.56	13.850	4.28	19.85	1.17
1.867	0.78	7.867	1.56	13.867	4.28	19.87	1.17
1.883	0.78	7.883	1.56	13.883	4.28	19.88	1.17
1.900	0.78	7.900	1.56	13.900	4.28	19.90	1.17
1.917	0.78	7.917	1.56	13.917	4.28	19.92	1.17
1.933	0.78	7.933	1.56	13.933	4.28	19.93	1.17
1.950	0.78	7.950	1.56	13.950	4.28	19.95	1.17
1.967	0.78	7.967	1.56	13.967	4.28	19.97	1.17
1.983	0.78	7.983	1.56	13.983	4.28	19.98	1.17
2.000	0.78	8.000	1.56	14.000	4.28	20.00	1.17
2.017	0.78	8.017	2.33	14.017	2.33	20.02	0.78
2.033	0.78	8.033	2.33	14.033	2.33	20.03	0.78
2.050	0.78	8.050	2.33	14.050	2.33	20.05	0.78
2.067	0.78	8.067	2.33	14.067	2.33	20.07	0.78
2.083	0.78	8.083	2.33	14.083	2.33	20.08	0.78
2.100	0.78	8.100	2.33	14.100	2.33	20.10	0.78
2.117	0.78	8.117	2.33	14.117	2.33	20.12	0.78
2.133	0.78	8.133	2.33	14.133	2.33	20.13	0.78
2.150	0.78	8.150	2.33	14.150	2.33	20.15	0.78
2.167	0.78	8.167	2.33	14.167	2.33	20.17	0.78
2.183	0.78	8.183	2.33	14.183	2.33	20.18	0.78
2.200	0.78	8.200	2.33	14.200	2.33	20.20	0.78
2.217	0.78	8.217	2.33	14.217	2.33	20.22	0.78
2.233	0.78	8.233	2.33	14.233	2.33	20.23	0.78
2.250	0.78	8.250	2.33	14.250	2.33	20.25	0.78
2.267	0.78	8.267	2.33	14.267	2.33	20.27	0.78
2.283	0.78	8.283	2.33	14.283	2.33	20.28	0.78
2.300	0.78	8.300	2.33	14.300	2.33	20.30	0.78
2.317	0.78	8.317	2.33	14.317	2.33	20.32	0.78
2.333	0.78	8.333	2.33	14.333	2.33	20.33	0.78
2.350	0.78	8.350	2.33	14.350	2.33	20.35	0.78
2.367	0.78	8.367	2.33	14.367	2.33	20.37	0.78
2.383	0.78	8.383	2.33	14.383	2.33	20.38	0.78
2.400	0.78	8.400	2.33	14.400	2.33	20.40	0.78
2.417	0.78	8.417	2.33	14.417	2.33	20.42	0.78
2.433	0.78	8.433	2.33	14.433	2.33	20.43	0.78
2.450	0.78	8.450	2.33	14.450	2.33	20.45	0.78
2.467	0.78	8.467	2.33	14.467	2.33	20.47	0.78
2.483	0.78	8.483	2.33	14.483	2.33	20.48	0.78
2.500	0.78	8.500	2.33	14.500	2.33	20.50	0.78
2.517	0.78	8.517	2.33	14.517	2.33	20.52	0.78
2.533	0.78	8.533	2.33	14.533	2.33	20.53	0.78
2.550	0.78	8.550	2.33	14.550	2.33	20.55	0.78
2.567	0.78	8.567	2.33	14.567	2.33	20.57	0.78
2.583	0.78	8.583	2.33	14.583	2.33	20.58	0.78
2.600	0.78	8.600	2.33	14.600	2.33	20.60	0.78
2.617	0.78	8.617	2.33	14.617	2.33	20.62	0.78
2.633	0.78	8.633	2.33	14.633	2.33	20.63	0.78
2.650	0.78	8.650	2.33	14.650	2.33	20.65	0.78
2.667	0.78	8.667	2.33	14.667	2.33	20.67	0.78
2.683	0.78	8.683	2.33	14.683	2.33	20.68	0.78
2.700	0.78	8.700	2.33	14.700	2.33	20.70	0.78
2.717	0.78	8.717	2.33	14.717	2.33	20.72	0.78
2.733	0.78	8.733	2.33	14.733	2.33	20.73	0.78
2.750	0.78	8.750	2.33	14.750	2.33	20.75	0.78
2.767	0.78	8.767	2.33	14.767	2.33	20.77	0.78
2.783	0.78	8.783	2.33	14.783	2.33	20.78	0.78
2.800	0.78	8.800	2.33	14.800	2.33	20.80	0.78
2.817	0.78	8.817	2.33	14.817	2.33	20.82	0.78
2.833	0.78	8.833	2.33	14.833	2.33	20.83	0.78
2.850	0.78	8.850	2.33	14.850	2.33	20.85	0.78
2.867	0.78	8.867	2.33	14.867	2.33	20.87	0.78
2.883	0.78	8.883	2.33	14.883	2.33	20.88	0.78
2.900	0.78	8.900	2.33	14.900	2.33	20.90	0.78
2.917	0.78	8.917	2.33	14.917	2.33	20.92	0.78
2.933	0.78	8.933	2.33	14.933	2.33	20.93	0.78
2.950	0.78	8.950	2.33	14.950	2.33	20.95	0.78
2.967	0.78	8.967	2.33	14.967	2.33	20.97	0.78
2.983	0.78	8.983	2.33	14.983	2.33	20.98	0.78
3.000	0.78	9.000	2.33	15.000	2.33	21.00	0.78
3.017	0.78	9.017	2.33	15.017	2.33	21.02	0.78

3.033	0.78	9.033	2.33	15.033	2.33	21.03	0.78
3.050	0.78	9.050	2.33	15.050	2.33	21.05	0.78
3.067	0.78	9.067	2.33	15.067	2.33	21.07	0.78
3.083	0.78	9.083	2.33	15.083	2.33	21.08	0.78
3.100	0.78	9.100	2.33	15.100	2.33	21.10	0.78
3.117	0.78	9.117	2.33	15.117	2.33	21.12	0.78
3.133	0.78	9.133	2.33	15.133	2.33	21.13	0.78
3.150	0.78	9.150	2.33	15.150	2.33	21.15	0.78
3.167	0.78	9.167	2.33	15.167	2.33	21.17	0.78
3.183	0.78	9.183	2.33	15.183	2.33	21.18	0.78
3.200	0.78	9.200	2.33	15.200	2.33	21.20	0.78
3.217	0.78	9.217	2.33	15.217	2.33	21.22	0.78
3.233	0.78	9.233	2.33	15.233	2.33	21.23	0.78
3.250	0.78	9.250	2.33	15.250	2.33	21.25	0.78
3.267	0.78	9.267	2.33	15.267	2.33	21.27	0.78
3.283	0.78	9.283	2.33	15.283	2.33	21.28	0.78
3.300	0.78	9.300	2.33	15.300	2.33	21.30	0.78
3.317	0.78	9.317	2.33	15.317	2.33	21.32	0.78
3.333	0.78	9.333	2.33	15.333	2.33	21.33	0.78
3.350	0.78	9.350	2.33	15.350	2.33	21.35	0.78
3.367	0.78	9.367	2.33	15.367	2.33	21.37	0.78
3.383	0.78	9.383	2.33	15.383	2.33	21.38	0.78
3.400	0.78	9.400	2.33	15.400	2.33	21.40	0.78
3.417	0.78	9.417	2.33	15.417	2.33	21.42	0.78
3.433	0.78	9.433	2.33	15.433	2.33	21.43	0.78
3.450	0.78	9.450	2.33	15.450	2.33	21.45	0.78
3.467	0.78	9.467	2.33	15.467	2.33	21.47	0.78
3.483	0.78	9.483	2.33	15.483	2.33	21.48	0.78
3.500	0.78	9.500	2.33	15.500	2.33	21.50	0.78
3.517	0.78	9.517	2.33	15.517	2.33	21.52	0.78
3.533	0.78	9.533	2.33	15.533	2.33	21.53	0.78
3.550	0.78	9.550	2.33	15.550	2.33	21.55	0.78
3.567	0.78	9.567	2.33	15.567	2.33	21.57	0.78
3.583	0.78	9.583	2.33	15.583	2.33	21.58	0.78
3.600	0.78	9.600	2.33	15.600	2.33	21.60	0.78
3.617	0.78	9.617	2.33	15.617	2.33	21.62	0.78
3.633	0.78	9.633	2.33	15.633	2.33	21.63	0.78
3.650	0.78	9.650	2.33	15.650	2.33	21.65	0.78
3.667	0.78	9.667	2.33	15.667	2.33	21.67	0.78
3.683	0.78	9.683	2.33	15.683	2.33	21.68	0.78
3.700	0.78	9.700	2.33	15.700	2.33	21.70	0.78
3.717	0.78	9.717	2.33	15.717	2.33	21.72	0.78
3.733	0.78	9.733	2.33	15.733	2.33	21.73	0.78
3.750	0.78	9.750	2.33	15.750	2.33	21.75	0.78
3.767	0.78	9.767	2.33	15.767	2.33	21.77	0.78
3.783	0.78	9.783	2.33	15.783	2.33	21.78	0.78
3.800	0.78	9.800	2.33	15.800	2.33	21.80	0.78
3.817	0.78	9.817	2.33	15.817	2.33	21.82	0.78
3.833	0.78	9.833	2.33	15.833	2.33	21.83	0.78
3.850	0.78	9.850	2.33	15.850	2.33	21.85	0.78
3.867	0.78	9.867	2.33	15.867	2.33	21.87	0.78
3.883	0.78	9.883	2.33	15.883	2.33	21.88	0.78
3.900	0.78	9.900	2.33	15.900	2.33	21.90	0.78
3.917	0.78	9.917	2.33	15.917	2.33	21.92	0.78
3.933	0.78	9.933	2.33	15.933	2.33	21.93	0.78
3.950	0.78	9.950	2.33	15.950	2.33	21.95	0.78
3.967	0.78	9.967	2.33	15.967	2.33	21.97	0.78
3.983	0.78	9.983	2.33	15.983	2.33	21.98	0.78
4.000	0.78	10.000	2.33	16.000	2.33	22.00	0.78
4.017	1.56	10.017	4.68	16.017	1.56	22.02	0.78
4.033	1.56	10.033	4.68	16.033	1.56	22.03	0.78
4.050	1.56	10.050	4.68	16.050	1.56	22.05	0.78
4.067	1.56	10.067	4.68	16.067	1.56	22.07	0.78
4.083	1.56	10.083	4.68	16.083	1.56	22.08	0.78
4.100	1.56	10.100	4.68	16.100	1.56	22.10	0.78
4.117	1.56	10.117	4.68	16.117	1.56	22.12	0.78
4.133	1.56	10.133	4.68	16.133	1.56	22.13	0.78
4.150	1.56	10.150	4.68	16.150	1.56	22.15	0.78
4.167	1.56	10.167	4.68	16.167	1.56	22.17	0.78
4.183	1.56	10.183	4.68	16.183	1.56	22.18	0.78
4.200	1.56	10.200	4.68	16.200	1.56	22.20	0.78
4.217	1.56	10.217	4.68	16.217	1.56	22.22	0.78
4.233	1.56	10.233	4.68	16.233	1.56	22.23	0.78
4.250	1.56	10.250	4.68	16.250	1.56	22.25	0.78
4.267	1.56	10.267	4.68	16.267	1.56	22.27	0.78
4.283	1.56	10.283	4.68	16.283	1.56	22.28	0.78
4.300	1.56	10.300	4.68	16.300	1.56	22.30	0.78
4.317	1.56	10.317	4.68	16.317	1.56	22.32	0.78
4.333	1.56	10.333	4.68	16.333	1.56	22.33	0.78
4.350	1.56	10.350	4.68	16.350	1.56	22.35	0.78
4.367	1.56	10.367	4.68	16.367	1.56	22.37	0.78
4.383	1.56	10.383	4.68	16.383	1.56	22.38	0.78
4.400	1.56	10.400	4.68	16.400	1.56	22.40	0.78
4.417	1.56	10.417	4.68	16.417	1.56	22.42	0.78
4.433	1.56	10.433	4.68	16.433	1.56	22.43	0.78
4.450	1.56	10.450	4.68	16.450	1.56	22.45	0.78
4.467	1.56	10.467	4.68	16.467	1.56	22.47	0.78
4.483	1.56	10.483	4.68	16.483	1.56	22.48	0.78
4.500	1.56	10.500	4.68	16.500	1.56	22.50	0.78
4.517	1.56	10.517	4.68	16.517	1.56	22.52	0.78
4.533	1.56	10.533	4.68	16.533	1.56	22.53	0.78
4.550	1.56	10.550	4.68	16.550	1.56	22.55	0.78
4.567	1.56	10.567	4.68	16.567	1.56	22.57	0.78
4.583	1.56	10.583	4.68	16.583	1.56	22.58	0.78
4.600	1.56	10.600	4.68	16.600	1.56	22.60	0.78
4.617	1.56	10.617	4.68	16.617	1.56	22.62	0.78
4.633	1.56	10.633	4.68	16.633	1.56	22.63	0.78
4.650	1.56	10.650	4.68	16.650	1.56	22.65	0.78
4.667	1.56	10.667	4.68	16.667	1.56	22.67	0.78
4.683	1.56	10.683	4.68	16.683	1.56	22.68	0.78

4.700	1.56	10.700	4.68	16.700	1.56	22.70	0.78
4.717	1.56	10.717	4.68	16.717	1.56	22.72	0.78
4.733	1.56	10.733	4.68	16.733	1.56	22.73	0.78
4.750	1.56	10.750	4.68	16.750	1.56	22.75	0.78
4.767	1.56	10.767	4.68	16.767	1.56	22.77	0.78
4.783	1.56	10.783	4.68	16.783	1.56	22.78	0.78
4.800	1.56	10.800	4.68	16.800	1.56	22.80	0.78
4.817	1.56	10.817	4.68	16.817	1.56	22.82	0.78
4.833	1.56	10.833	4.68	16.833	1.56	22.83	0.78
4.850	1.56	10.850	4.68	16.850	1.56	22.85	0.78
4.867	1.56	10.867	4.68	16.867	1.56	22.87	0.78
4.883	1.56	10.883	4.68	16.883	1.56	22.88	0.78
4.900	1.56	10.900	4.68	16.900	1.56	22.90	0.78
4.917	1.56	10.917	4.68	16.917	1.56	22.92	0.78
4.933	1.56	10.933	4.68	16.933	1.56	22.93	0.78
4.950	1.56	10.950	4.68	16.950	1.56	22.95	0.78
4.967	1.56	10.967	4.68	16.967	1.56	22.97	0.78
4.983	1.56	10.983	4.68	16.983	1.56	22.98	0.78
5.000	1.56	11.000	4.68	17.000	1.56	23.00	0.78
5.017	1.56	11.017	6.23	17.017	1.56	23.02	0.78
5.033	1.56	11.033	6.23	17.033	1.56	23.03	0.78
5.050	1.56	11.050	6.23	17.050	1.56	23.05	0.78
5.067	1.56	11.067	6.23	17.067	1.56	23.07	0.78
5.083	1.56	11.083	6.23	17.083	1.56	23.08	0.78
5.100	1.56	11.100	6.23	17.100	1.56	23.10	0.78
5.117	1.56	11.117	6.23	17.117	1.56	23.12	0.78
5.133	1.56	11.133	6.23	17.133	1.56	23.13	0.78
5.150	1.56	11.150	6.23	17.150	1.56	23.15	0.78
5.167	1.56	11.167	6.23	17.167	1.56	23.17	0.78
5.183	1.56	11.183	6.23	17.183	1.56	23.18	0.78
5.200	1.56	11.200	6.23	17.200	1.56	23.20	0.78
5.217	1.56	11.217	8.96	17.217	1.56	23.22	0.78
5.233	1.56	11.233	8.96	17.233	1.56	23.23	0.78
5.250	1.56	11.250	8.96	17.250	1.56	23.25	0.78
5.267	1.56	11.267	8.96	17.267	1.56	23.27	0.78
5.283	1.56	11.283	8.96	17.283	1.56	23.28	0.78
5.300	1.56	11.300	8.96	17.300	1.56	23.30	0.78
5.317	1.56	11.317	8.96	17.317	1.56	23.32	0.78
5.333	1.56	11.333	8.96	17.333	1.56	23.33	0.78
5.350	1.56	11.350	8.96	17.350	1.56	23.35	0.78
5.367	1.56	11.367	8.96	17.367	1.56	23.37	0.78
5.383	1.56	11.383	8.96	17.383	1.56	23.38	0.78
5.400	1.56	11.400	8.96	17.400	1.56	23.40	0.78
5.417	1.56	11.417	20.26	17.417	1.56	23.42	0.78
5.433	1.56	11.433	20.26	17.433	1.56	23.43	0.78
5.450	1.56	11.450	20.26	17.450	1.56	23.45	0.78
5.467	1.56	11.467	20.26	17.467	1.56	23.47	0.78
5.483	1.56	11.483	20.26	17.483	1.56	23.48	0.78
5.500	1.56	11.500	20.26	17.500	1.56	23.50	0.78
5.517	1.56	11.517	20.26	17.517	1.56	23.52	0.78
5.533	1.56	11.533	20.26	17.533	1.56	23.53	0.78
5.550	1.56	11.550	20.26	17.550	1.56	23.55	0.78
5.567	1.56	11.567	20.26	17.567	1.56	23.57	0.78
5.583	1.56	11.583	20.26	17.583	1.56	23.58	0.78
5.600	1.56	11.600	20.26	17.600	1.56	23.60	0.78
5.617	1.56	11.617	44.41	17.617	1.56	23.62	0.78
5.633	1.56	11.633	44.42	17.633	1.56	23.63	0.78
5.650	1.56	11.650	44.42	17.650	1.56	23.65	0.78
5.667	1.56	11.667	44.42	17.667	1.56	23.67	0.78
5.683	1.56	11.683	44.42	17.683	1.56	23.68	0.78
5.700	1.56	11.700	44.42	17.700	1.56	23.70	0.78
5.717	1.56	11.717	44.42	17.717	1.56	23.72	0.78
5.733	1.56	11.733	44.42	17.733	1.56	23.73	0.78
5.750	1.56	11.750	44.42	17.750	1.56	23.75	0.78
5.767	1.56	11.767	44.42	17.767	1.56	23.77	0.78
5.783	1.56	11.783	44.42	17.783	1.56	23.78	0.78
5.800	1.56	11.800	44.42	17.800	1.56	23.80	0.78
5.817	1.56	11.817	92.68	17.817	1.56	23.82	0.78
5.833	1.56	11.833	92.71	17.833	1.56	23.83	0.78
5.850	1.56	11.850	92.71	17.850	1.56	23.85	0.78
5.867	1.56	11.867	92.71	17.867	1.56	23.87	0.78
5.883	1.56	11.883	92.71	17.883	1.56	23.88	0.78
5.900	1.56	11.900	92.71	17.900	1.56	23.90	0.78
5.917	1.56	11.917	92.71	17.917	1.56	23.92	0.78
5.933	1.56	11.933	92.71	17.933	1.56	23.93	0.78
5.950	1.56	11.950	92.71	17.950	1.56	23.95	0.78
5.967	1.56	11.967	92.71	17.967	1.56	23.97	0.78
5.983	1.56	11.983	92.71	17.983	1.56	23.98	0.78
6.000	1.56	12.000	92.71	18.000	1.56	24.00	0.78

Max.Eff.Inten.(mm/hr)=	92.71	31.29		
over (min)	5.00	4.00		
Storage Coeff. (min)=	2.55 (ii)	3.71 (ii)		
Unit Hyd. Tpeak (min)=	5.00	4.00		
Unit Hyd. peak (cms)=	0.33	0.30		
			TOTALS	
PEAK FLOW (cms)=	0.06	0.00	0.058 (iii)	
TIME TO PEAK (hrs)=	12.00	12.00	12.00	
RUNOFF VOLUME (mm)=	78.93	22.33	78.36	
TOTAL RAINFALL (mm)=	79.93	79.93	79.93	
RUNOFF COEFFICIENT =	0.99	0.28	0.98	

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR(  0101)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0380      0.0061
                          0.0190     0.0030   |   0.0570      0.0091

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2012)      0.229      0.058     12.00      78.36
   OUTFLOW: ID= 1 (  0101)      0.229      0.029     12.08      78.18

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 49.51
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0046

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
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| CALIB            |
| STANDHYD (  2014)|   Area    (ha)=   0.15
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
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                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.15         0.00
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope     (%)=       0.50         2.00
     Length            (m)=      31.44        40.00
     Mannings n           =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
               0.017     0.78 | 6.017     1.56 |12.017   16.41 | 18.02     1.17
               0.033     0.78 | 6.033     1.56 |12.033   16.36 | 18.03     1.17
               0.050     0.78 | 6.050     1.56 |12.050   16.36 | 18.05     1.17
               0.067     0.78 | 6.067     1.56 |12.067   16.36 | 18.07     1.17
               0.083     0.78 | 6.083     1.56 |12.083   16.36 | 18.08     1.17
               0.100     0.78 | 6.100     1.56 |12.100   16.36 | 18.10     1.17
               0.117     0.78 | 6.117     1.56 |12.117   16.36 | 18.12     1.17
               0.133     0.78 | 6.133     1.56 |12.133   16.36 | 18.13     1.17
               0.150     0.78 | 6.150     1.56 |12.150   16.36 | 18.15     1.17
               0.167     0.78 | 6.167     1.56 |12.167   16.36 | 18.17     1.17
               0.183     0.78 | 6.183     1.56 |12.183   16.36 | 18.18     1.17
               0.200     0.78 | 6.200     1.56 |12.200   16.36 | 18.20     1.17
               0.217     0.78 | 6.217     1.56 |12.217   10.13 | 18.22     1.17
               0.233     0.78 | 6.233     1.56 |12.233   10.12 | 18.23     1.17
               0.250     0.78 | 6.250     1.56 |12.250   10.12 | 18.25     1.17
               0.267     0.78 | 6.267     1.56 |12.267   10.12 | 18.27     1.17
               0.283     0.78 | 6.283     1.56 |12.283   10.12 | 18.28     1.17
               0.300     0.78 | 6.300     1.56 |12.300   10.12 | 18.30     1.17
               0.317     0.78 | 6.317     1.56 |12.317   10.12 | 18.32     1.17
               0.333     0.78 | 6.333     1.56 |12.333   10.12 | 18.33     1.17
               0.350     0.78 | 6.350     1.56 |12.350   10.12 | 18.35     1.17
               0.367     0.78 | 6.367     1.56 |12.367   10.12 | 18.37     1.17
               0.383     0.78 | 6.383     1.56 |12.383   10.12 | 18.38     1.17
               0.400     0.78 | 6.400     1.56 |12.400   10.12 | 18.40     1.17
               0.417     0.78 | 6.417     1.56 |12.417    7.41 | 18.42     1.17
               0.433     0.78 | 6.433     1.56 |12.433    7.41 | 18.43     1.17
               0.450     0.78 | 6.450     1.56 |12.450    7.41 | 18.45     1.17
               0.467     0.78 | 6.467     1.56 |12.467    7.41 | 18.47     1.17
               0.483     0.78 | 6.483     1.56 |12.483    7.41 | 18.48     1.17
               0.500     0.78 | 6.500     1.56 |12.500    7.41 | 18.50     1.17
               0.517     0.78 | 6.517     1.56 |12.517    7.41 | 18.52     1.17
               0.533     0.78 | 6.533     1.56 |12.533    7.41 | 18.53     1.17
               0.550     0.78 | 6.550     1.56 |12.550    7.41 | 18.55     1.17
               0.567     0.78 | 6.567     1.56 |12.567    7.41 | 18.57     1.17
               0.583     0.78 | 6.583     1.56 |12.583    7.41 | 18.58     1.17
               0.600     0.78 | 6.600     1.56 |12.600    7.41 | 18.60     1.17
               0.617     0.78 | 6.617     1.56 |12.617    7.01 | 18.62     1.17
               0.633     0.78 | 6.633     1.56 |12.633    7.01 | 18.63     1.17
               0.650     0.78 | 6.650     1.56 |12.650    7.01 | 18.65     1.17
               0.667     0.78 | 6.667     1.56 |12.667    7.01 | 18.67     1.17
               0.683     0.78 | 6.683     1.56 |12.683    7.01 | 18.68     1.17
               0.700     0.78 | 6.700     1.56 |12.700    7.01 | 18.70     1.17
               0.717     0.78 | 6.717     1.56 |12.717    7.01 | 18.72     1.17
               0.733     0.78 | 6.733     1.56 |12.733    7.01 | 18.73     1.17
               0.750     0.78 | 6.750     1.56 |12.750    7.01 | 18.75     1.17
               0.767     0.78 | 6.767     1.56 |12.767    7.01 | 18.77     1.17
               0.783     0.78 | 6.783     1.56 |12.783    7.01 | 18.78     1.17
               0.800     0.78 | 6.800     1.56 |12.800    7.01 | 18.80     1.17
               0.817     0.78 | 6.817     1.56 |12.817    5.06 | 18.82     1.17
               0.833     0.78 | 6.833     1.56 |12.833    5.06 | 18.83     1.17
               0.850     0.78 | 6.850     1.56 |12.850    5.06 | 18.85     1.17
               0.867     0.78 | 6.867     1.56 |12.867    5.06 | 18.87     1.17
               0.883     0.78 | 6.883     1.56 |12.883    5.06 | 18.88     1.17
               0.900     0.78 | 6.900     1.56 |12.900    5.06 | 18.90     1.17
               0.917     0.78 | 6.917     1.56 |12.917    5.06 | 18.92     1.17
               0.933     0.78 | 6.933     1.56 |12.933    5.06 | 18.93     1.17
               0.950     0.78 | 6.950     1.56 |12.950    5.06 | 18.95     1.17
               0.967     0.78 | 6.967     1.56 |12.967    5.06 | 18.97     1.17
               0.983     0.78 | 6.983     1.56 |12.983    5.06 | 18.98     1.17
               1.000     0.78 | 7.000     1.56 |13.000    5.06 | 19.00     1.17
               1.017     0.78 | 7.017     1.56 |13.017    4.28 | 19.02     1.17
               1.033     0.78 | 7.033     1.56 |13.033    4.28 | 19.03     1.17
               1.050     0.78 | 7.050     1.56 |13.050    4.28 | 19.05     1.17
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1.067	0.78	7.067	1.56	13.067	4.28	19.07	1.17
1.083	0.78	7.083	1.56	13.083	4.28	19.08	1.17
1.100	0.78	7.100	1.56	13.100	4.28	19.10	1.17
1.117	0.78	7.117	1.56	13.117	4.28	19.12	1.17
1.133	0.78	7.133	1.56	13.133	4.28	19.13	1.17
1.150	0.78	7.150	1.56	13.150	4.28	19.15	1.17
1.167	0.78	7.167	1.56	13.167	4.28	19.17	1.17
1.183	0.78	7.183	1.56	13.183	4.28	19.18	1.17
1.200	0.78	7.200	1.56	13.200	4.28	19.20	1.17
1.217	0.78	7.217	1.56	13.217	4.28	19.22	1.17
1.233	0.78	7.233	1.56	13.233	4.28	19.23	1.17
1.250	0.78	7.250	1.56	13.250	4.28	19.25	1.17
1.267	0.78	7.267	1.56	13.267	4.28	19.27	1.17
1.283	0.78	7.283	1.56	13.283	4.28	19.28	1.17
1.300	0.78	7.300	1.56	13.300	4.28	19.30	1.17
1.317	0.78	7.317	1.56	13.317	4.28	19.32	1.17
1.333	0.78	7.333	1.56	13.333	4.28	19.33	1.17
1.350	0.78	7.350	1.56	13.350	4.28	19.35	1.17
1.367	0.78	7.367	1.56	13.367	4.28	19.37	1.17
1.383	0.78	7.383	1.56	13.383	4.28	19.38	1.17
1.400	0.78	7.400	1.56	13.400	4.28	19.40	1.17
1.417	0.78	7.417	1.56	13.417	4.28	19.42	1.17
1.433	0.78	7.433	1.56	13.433	4.28	19.43	1.17
1.450	0.78	7.450	1.56	13.450	4.28	19.45	1.17
1.467	0.78	7.467	1.56	13.467	4.28	19.47	1.17
1.483	0.78	7.483	1.56	13.483	4.28	19.48	1.17
1.500	0.78	7.500	1.56	13.500	4.28	19.50	1.17
1.517	0.78	7.517	1.56	13.517	4.28	19.52	1.17
1.533	0.78	7.533	1.56	13.533	4.28	19.53	1.17
1.550	0.78	7.550	1.56	13.550	4.28	19.55	1.17
1.567	0.78	7.567	1.56	13.567	4.28	19.57	1.17
1.583	0.78	7.583	1.56	13.583	4.28	19.58	1.17
1.600	0.78	7.600	1.56	13.600	4.28	19.60	1.17
1.617	0.78	7.617	1.56	13.617	4.28	19.62	1.17
1.633	0.78	7.633	1.56	13.633	4.28	19.63	1.17
1.650	0.78	7.650	1.56	13.650	4.28	19.65	1.17
1.667	0.78	7.667	1.56	13.667	4.28	19.67	1.17
1.683	0.78	7.683	1.56	13.683	4.28	19.68	1.17
1.700	0.78	7.700	1.56	13.700	4.28	19.70	1.17
1.717	0.78	7.717	1.56	13.717	4.28	19.72	1.17
1.733	0.78	7.733	1.56	13.733	4.28	19.73	1.17
1.750	0.78	7.750	1.56	13.750	4.28	19.75	1.17
1.767	0.78	7.767	1.56	13.767	4.28	19.77	1.17
1.783	0.78	7.783	1.56	13.783	4.28	19.78	1.17
1.800	0.78	7.800	1.56	13.800	4.28	19.80	1.17
1.817	0.78	7.817	1.56	13.817	4.28	19.82	1.17
1.833	0.78	7.833	1.56	13.833	4.28	19.83	1.17
1.850	0.78	7.850	1.56	13.850	4.28	19.85	1.17
1.867	0.78	7.867	1.56	13.867	4.28	19.87	1.17
1.883	0.78	7.883	1.56	13.883	4.28	19.88	1.17
1.900	0.78	7.900	1.56	13.900	4.28	19.90	1.17
1.917	0.78	7.917	1.56	13.917	4.28	19.92	1.17
1.933	0.78	7.933	1.56	13.933	4.28	19.93	1.17
1.950	0.78	7.950	1.56	13.950	4.28	19.95	1.17
1.967	0.78	7.967	1.56	13.967	4.28	19.97	1.17
1.983	0.78	7.983	1.56	13.983	4.28	19.98	1.17
2.000	0.78	8.000	1.56	14.000	4.28	20.00	1.17
2.017	0.78	8.017	2.33	14.017	2.33	20.02	0.78
2.033	0.78	8.033	2.33	14.033	2.33	20.03	0.78
2.050	0.78	8.050	2.33	14.050	2.33	20.05	0.78
2.067	0.78	8.067	2.33	14.067	2.33	20.07	0.78
2.083	0.78	8.083	2.33	14.083	2.33	20.08	0.78
2.100	0.78	8.100	2.33	14.100	2.33	20.10	0.78
2.117	0.78	8.117	2.33	14.117	2.33	20.12	0.78
2.133	0.78	8.133	2.33	14.133	2.33	20.13	0.78
2.150	0.78	8.150	2.33	14.150	2.33	20.15	0.78
2.167	0.78	8.167	2.33	14.167	2.33	20.17	0.78
2.183	0.78	8.183	2.33	14.183	2.33	20.18	0.78
2.200	0.78	8.200	2.33	14.200	2.33	20.20	0.78
2.217	0.78	8.217	2.33	14.217	2.33	20.22	0.78
2.233	0.78	8.233	2.33	14.233	2.33	20.23	0.78
2.250	0.78	8.250	2.33	14.250	2.33	20.25	0.78
2.267	0.78	8.267	2.33	14.267	2.33	20.27	0.78
2.283	0.78	8.283	2.33	14.283	2.33	20.28	0.78
2.300	0.78	8.300	2.33	14.300	2.33	20.30	0.78
2.317	0.78	8.317	2.33	14.317	2.33	20.32	0.78
2.333	0.78	8.333	2.33	14.333	2.33	20.33	0.78
2.350	0.78	8.350	2.33	14.350	2.33	20.35	0.78
2.367	0.78	8.367	2.33	14.367	2.33	20.37	0.78
2.383	0.78	8.383	2.33	14.383	2.33	20.38	0.78
2.400	0.78	8.400	2.33	14.400	2.33	20.40	0.78
2.417	0.78	8.417	2.33	14.417	2.33	20.42	0.78
2.433	0.78	8.433	2.33	14.433	2.33	20.43	0.78
2.450	0.78	8.450	2.33	14.450	2.33	20.45	0.78
2.467	0.78	8.467	2.33	14.467	2.33	20.47	0.78
2.483	0.78	8.483	2.33	14.483	2.33	20.48	0.78
2.500	0.78	8.500	2.33	14.500	2.33	20.50	0.78
2.517	0.78	8.517	2.33	14.517	2.33	20.52	0.78
2.533	0.78	8.533	2.33	14.533	2.33	20.53	0.78
2.550	0.78	8.550	2.33	14.550	2.33	20.55	0.78
2.567	0.78	8.567	2.33	14.567	2.33	20.57	0.78
2.583	0.78	8.583	2.33	14.583	2.33	20.58	0.78
2.600	0.78	8.600	2.33	14.600	2.33	20.60	0.78
2.617	0.78	8.617	2.33	14.617	2.33	20.62	0.78
2.633	0.78	8.633	2.33	14.633	2.33	20.63	0.78
2.650	0.78	8.650	2.33	14.650	2.33	20.65	0.78
2.667	0.78	8.667	2.33	14.667	2.33	20.67	0.78
2.683	0.78	8.683	2.33	14.683	2.33	20.68	0.78
2.700	0.78	8.700	2.33	14.700	2.33	20.70	0.78
2.717	0.78	8.717	2.33	14.717	2.33	20.72	0.78

2.733	0.78	8.733	2.33	14.733	2.33	20.73	0.78
2.750	0.78	8.750	2.33	14.750	2.33	20.75	0.78
2.767	0.78	8.767	2.33	14.767	2.33	20.77	0.78
2.783	0.78	8.783	2.33	14.783	2.33	20.78	0.78
2.800	0.78	8.800	2.33	14.800	2.33	20.80	0.78
2.817	0.78	8.817	2.33	14.817	2.33	20.82	0.78
2.833	0.78	8.833	2.33	14.833	2.33	20.83	0.78
2.850	0.78	8.850	2.33	14.850	2.33	20.85	0.78
2.867	0.78	8.867	2.33	14.867	2.33	20.87	0.78
2.883	0.78	8.883	2.33	14.883	2.33	20.88	0.78
2.900	0.78	8.900	2.33	14.900	2.33	20.90	0.78
2.917	0.78	8.917	2.33	14.917	2.33	20.92	0.78
2.933	0.78	8.933	2.33	14.933	2.33	20.93	0.78
2.950	0.78	8.950	2.33	14.950	2.33	20.95	0.78
2.967	0.78	8.967	2.33	14.967	2.33	20.97	0.78
2.983	0.78	8.983	2.33	14.983	2.33	20.98	0.78
3.000	0.78	9.000	2.33	15.000	2.33	21.00	0.78
3.017	0.78	9.017	2.33	15.017	2.33	21.02	0.78
3.033	0.78	9.033	2.33	15.033	2.33	21.03	0.78
3.050	0.78	9.050	2.33	15.050	2.33	21.05	0.78
3.067	0.78	9.067	2.33	15.067	2.33	21.07	0.78
3.083	0.78	9.083	2.33	15.083	2.33	21.08	0.78
3.100	0.78	9.100	2.33	15.100	2.33	21.10	0.78
3.117	0.78	9.117	2.33	15.117	2.33	21.12	0.78
3.133	0.78	9.133	2.33	15.133	2.33	21.13	0.78
3.150	0.78	9.150	2.33	15.150	2.33	21.15	0.78
3.167	0.78	9.167	2.33	15.167	2.33	21.17	0.78
3.183	0.78	9.183	2.33	15.183	2.33	21.18	0.78
3.200	0.78	9.200	2.33	15.200	2.33	21.20	0.78
3.217	0.78	9.217	2.33	15.217	2.33	21.22	0.78
3.233	0.78	9.233	2.33	15.233	2.33	21.23	0.78
3.250	0.78	9.250	2.33	15.250	2.33	21.25	0.78
3.267	0.78	9.267	2.33	15.267	2.33	21.27	0.78
3.283	0.78	9.283	2.33	15.283	2.33	21.28	0.78
3.300	0.78	9.300	2.33	15.300	2.33	21.30	0.78
3.317	0.78	9.317	2.33	15.317	2.33	21.32	0.78
3.333	0.78	9.333	2.33	15.333	2.33	21.33	0.78
3.350	0.78	9.350	2.33	15.350	2.33	21.35	0.78
3.367	0.78	9.367	2.33	15.367	2.33	21.37	0.78
3.383	0.78	9.383	2.33	15.383	2.33	21.38	0.78
3.400	0.78	9.400	2.33	15.400	2.33	21.40	0.78
3.417	0.78	9.417	2.33	15.417	2.33	21.42	0.78
3.433	0.78	9.433	2.33	15.433	2.33	21.43	0.78
3.450	0.78	9.450	2.33	15.450	2.33	21.45	0.78
3.467	0.78	9.467	2.33	15.467	2.33	21.47	0.78
3.483	0.78	9.483	2.33	15.483	2.33	21.48	0.78
3.500	0.78	9.500	2.33	15.500	2.33	21.50	0.78
3.517	0.78	9.517	2.33	15.517	2.33	21.52	0.78
3.533	0.78	9.533	2.33	15.533	2.33	21.53	0.78
3.550	0.78	9.550	2.33	15.550	2.33	21.55	0.78
3.567	0.78	9.567	2.33	15.567	2.33	21.57	0.78
3.583	0.78	9.583	2.33	15.583	2.33	21.58	0.78
3.600	0.78	9.600	2.33	15.600	2.33	21.60	0.78
3.617	0.78	9.617	2.33	15.617	2.33	21.62	0.78
3.633	0.78	9.633	2.33	15.633	2.33	21.63	0.78
3.650	0.78	9.650	2.33	15.650	2.33	21.65	0.78
3.667	0.78	9.667	2.33	15.667	2.33	21.67	0.78
3.683	0.78	9.683	2.33	15.683	2.33	21.68	0.78
3.700	0.78	9.700	2.33	15.700	2.33	21.70	0.78
3.717	0.78	9.717	2.33	15.717	2.33	21.72	0.78
3.733	0.78	9.733	2.33	15.733	2.33	21.73	0.78
3.750	0.78	9.750	2.33	15.750	2.33	21.75	0.78
3.767	0.78	9.767	2.33	15.767	2.33	21.77	0.78
3.783	0.78	9.783	2.33	15.783	2.33	21.78	0.78
3.800	0.78	9.800	2.33	15.800	2.33	21.80	0.78
3.817	0.78	9.817	2.33	15.817	2.33	21.82	0.78
3.833	0.78	9.833	2.33	15.833	2.33	21.83	0.78
3.850	0.78	9.850	2.33	15.850	2.33	21.85	0.78
3.867	0.78	9.867	2.33	15.867	2.33	21.87	0.78
3.883	0.78	9.883	2.33	15.883	2.33	21.88	0.78
3.900	0.78	9.900	2.33	15.900	2.33	21.90	0.78
3.917	0.78	9.917	2.33	15.917	2.33	21.92	0.78
3.933	0.78	9.933	2.33	15.933	2.33	21.93	0.78
3.950	0.78	9.950	2.33	15.950	2.33	21.95	0.78
3.967	0.78	9.967	2.33	15.967	2.33	21.97	0.78
3.983	0.78	9.983	2.33	15.983	2.33	21.98	0.78
4.000	0.78	10.000	2.33	16.000	2.33	22.00	0.78
4.017	1.56	10.017	4.68	16.017	1.56	22.02	0.78
4.033	1.56	10.033	4.68	16.033	1.56	22.03	0.78
4.050	1.56	10.050	4.68	16.050	1.56	22.05	0.78
4.067	1.56	10.067	4.68	16.067	1.56	22.07	0.78
4.083	1.56	10.083	4.68	16.083	1.56	22.08	0.78
4.100	1.56	10.100	4.68	16.100	1.56	22.10	0.78
4.117	1.56	10.117	4.68	16.117	1.56	22.12	0.78
4.133	1.56	10.133	4.68	16.133	1.56	22.13	0.78
4.150	1.56	10.150	4.68	16.150	1.56	22.15	0.78
4.167	1.56	10.167	4.68	16.167	1.56	22.17	0.78
4.183	1.56	10.183	4.68	16.183	1.56	22.18	0.78
4.200	1.56	10.200	4.68	16.200	1.56	22.20	0.78
4.217	1.56	10.217	4.68	16.217	1.56	22.22	0.78
4.233	1.56	10.233	4.68	16.233	1.56	22.23	0.78
4.250	1.56	10.250	4.68	16.250	1.56	22.25	0.78
4.267	1.56	10.267	4.68	16.267	1.56	22.27	0.78
4.283	1.56	10.283	4.68	16.283	1.56	22.28	0.78
4.300	1.56	10.300	4.68	16.300	1.56	22.30	0.78
4.317	1.56	10.317	4.68	16.317	1.56	22.32	0.78
4.333	1.56	10.333	4.68	16.333	1.56	22.33	0.78
4.350	1.56	10.350	4.68	16.350	1.56	22.35	0.78
4.367	1.56	10.367	4.68	16.367	1.56	22.37	0.78
4.383	1.56	10.383	4.68	16.383	1.56	22.38	0.78

4.400	1.56	10.400	4.68	16.400	1.56	22.40	0.78
4.417	1.56	10.417	4.68	16.417	1.56	22.42	0.78
4.433	1.56	10.433	4.68	16.433	1.56	22.43	0.78
4.450	1.56	10.450	4.68	16.450	1.56	22.45	0.78
4.467	1.56	10.467	4.68	16.467	1.56	22.47	0.78
4.483	1.56	10.483	4.68	16.483	1.56	22.48	0.78
4.500	1.56	10.500	4.68	16.500	1.56	22.50	0.78
4.517	1.56	10.517	4.68	16.517	1.56	22.52	0.78
4.533	1.56	10.533	4.68	16.533	1.56	22.53	0.78
4.550	1.56	10.550	4.68	16.550	1.56	22.55	0.78
4.567	1.56	10.567	4.68	16.567	1.56	22.57	0.78
4.583	1.56	10.583	4.68	16.583	1.56	22.58	0.78
4.600	1.56	10.600	4.68	16.600	1.56	22.60	0.78
4.617	1.56	10.617	4.68	16.617	1.56	22.62	0.78
4.633	1.56	10.633	4.68	16.633	1.56	22.63	0.78
4.650	1.56	10.650	4.68	16.650	1.56	22.65	0.78
4.667	1.56	10.667	4.68	16.667	1.56	22.67	0.78
4.683	1.56	10.683	4.68	16.683	1.56	22.68	0.78
4.700	1.56	10.700	4.68	16.700	1.56	22.70	0.78
4.717	1.56	10.717	4.68	16.717	1.56	22.72	0.78
4.733	1.56	10.733	4.68	16.733	1.56	22.73	0.78
4.750	1.56	10.750	4.68	16.750	1.56	22.75	0.78
4.767	1.56	10.767	4.68	16.767	1.56	22.77	0.78
4.783	1.56	10.783	4.68	16.783	1.56	22.78	0.78
4.800	1.56	10.800	4.68	16.800	1.56	22.80	0.78
4.817	1.56	10.817	4.68	16.817	1.56	22.82	0.78
4.833	1.56	10.833	4.68	16.833	1.56	22.83	0.78
4.850	1.56	10.850	4.68	16.850	1.56	22.85	0.78
4.867	1.56	10.867	4.68	16.867	1.56	22.87	0.78
4.883	1.56	10.883	4.68	16.883	1.56	22.88	0.78
4.900	1.56	10.900	4.68	16.900	1.56	22.90	0.78
4.917	1.56	10.917	4.68	16.917	1.56	22.92	0.78
4.933	1.56	10.933	4.68	16.933	1.56	22.93	0.78
4.950	1.56	10.950	4.68	16.950	1.56	22.95	0.78
4.967	1.56	10.967	4.68	16.967	1.56	22.97	0.78
4.983	1.56	10.983	4.68	16.983	1.56	22.98	0.78
5.000	1.56	11.000	4.68	17.000	1.56	23.00	0.78
5.017	1.56	11.017	6.23	17.017	1.56	23.02	0.78
5.033	1.56	11.033	6.23	17.033	1.56	23.03	0.78
5.050	1.56	11.050	6.23	17.050	1.56	23.05	0.78
5.067	1.56	11.067	6.23	17.067	1.56	23.07	0.78
5.083	1.56	11.083	6.23	17.083	1.56	23.08	0.78
5.100	1.56	11.100	6.23	17.100	1.56	23.10	0.78
5.117	1.56	11.117	6.23	17.117	1.56	23.12	0.78
5.133	1.56	11.133	6.23	17.133	1.56	23.13	0.78
5.150	1.56	11.150	6.23	17.150	1.56	23.15	0.78
5.167	1.56	11.167	6.23	17.167	1.56	23.17	0.78
5.183	1.56	11.183	6.23	17.183	1.56	23.18	0.78
5.200	1.56	11.200	6.23	17.200	1.56	23.20	0.78
5.217	1.56	11.217	8.96	17.217	1.56	23.22	0.78
5.233	1.56	11.233	8.96	17.233	1.56	23.23	0.78
5.250	1.56	11.250	8.96	17.250	1.56	23.25	0.78
5.267	1.56	11.267	8.96	17.267	1.56	23.27	0.78
5.283	1.56	11.283	8.96	17.283	1.56	23.28	0.78
5.300	1.56	11.300	8.96	17.300	1.56	23.30	0.78
5.317	1.56	11.317	8.96	17.317	1.56	23.32	0.78
5.333	1.56	11.333	8.96	17.333	1.56	23.33	0.78
5.350	1.56	11.350	8.96	17.350	1.56	23.35	0.78
5.367	1.56	11.367	8.96	17.367	1.56	23.37	0.78
5.383	1.56	11.383	8.96	17.383	1.56	23.38	0.78
5.400	1.56	11.400	8.96	17.400	1.56	23.40	0.78
5.417	1.56	11.417	20.26	17.417	1.56	23.42	0.78
5.433	1.56	11.433	20.26	17.433	1.56	23.43	0.78
5.450	1.56	11.450	20.26	17.450	1.56	23.45	0.78
5.467	1.56	11.467	20.26	17.467	1.56	23.47	0.78
5.483	1.56	11.483	20.26	17.483	1.56	23.48	0.78
5.500	1.56	11.500	20.26	17.500	1.56	23.50	0.78
5.517	1.56	11.517	20.26	17.517	1.56	23.52	0.78
5.533	1.56	11.533	20.26	17.533	1.56	23.53	0.78
5.550	1.56	11.550	20.26	17.550	1.56	23.55	0.78
5.567	1.56	11.567	20.26	17.567	1.56	23.57	0.78
5.583	1.56	11.583	20.26	17.583	1.56	23.58	0.78
5.600	1.56	11.600	20.26	17.600	1.56	23.60	0.78
5.617	1.56	11.617	44.41	17.617	1.56	23.62	0.78
5.633	1.56	11.633	44.42	17.633	1.56	23.63	0.78
5.650	1.56	11.650	44.42	17.650	1.56	23.65	0.78
5.667	1.56	11.667	44.42	17.667	1.56	23.67	0.78
5.683	1.56	11.683	44.42	17.683	1.56	23.68	0.78
5.700	1.56	11.700	44.42	17.700	1.56	23.70	0.78
5.717	1.56	11.717	44.42	17.717	1.56	23.72	0.78
5.733	1.56	11.733	44.42	17.733	1.56	23.73	0.78
5.750	1.56	11.750	44.42	17.750	1.56	23.75	0.78
5.767	1.56	11.767	44.42	17.767	1.56	23.77	0.78
5.783	1.56	11.783	44.42	17.783	1.56	23.78	0.78
5.800	1.56	11.800	44.42	17.800	1.56	23.80	0.78
5.817	1.56	11.817	92.68	17.817	1.56	23.82	0.78
5.833	1.56	11.833	92.71	17.833	1.56	23.83	0.78
5.850	1.56	11.850	92.71	17.850	1.56	23.85	0.78
5.867	1.56	11.867	92.71	17.867	1.56	23.87	0.78
5.883	1.56	11.883	92.71	17.883	1.56	23.88	0.78
5.900	1.56	11.900	92.71	17.900	1.56	23.90	0.78
5.917	1.56	11.917	92.71	17.917	1.56	23.92	0.78
5.933	1.56	11.933	92.71	17.933	1.56	23.93	0.78
5.950	1.56	11.950	92.71	17.950	1.56	23.95	0.78
5.967	1.56	11.967	92.71	17.967	1.56	23.97	0.78
5.983	1.56	11.983	92.71	17.983	1.56	23.98	0.78
6.000	1.56	12.000	92.71	18.000	1.56	24.00	0.78

Max.Eff.Inten.(mm/hr)=	92.71	68.92
over (min)	5.00	3.00

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     Storage Coeff.  (min)=       1.62 (ii)    2.78 (ii)
     Unit Hyd. Tpeak (min)=       5.00         3.00
     Unit Hyd. peak  (cms)=       0.41         0.39
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.04         0.00          0.038 (iii)
     TIME TO PEAK    (hrs)=      12.00        12.00          12.00
     RUNOFF VOLUME    (mm)=      78.93        49.91          78.63
     TOTAL RAINFALL   (mm)=      79.93        79.93          79.93
     RUNOFF COEFFICIENT   =       0.99         0.62           0.98


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  85.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| RESERVOIR(  0103)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
-------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                         0.0000     0.0000   |   0.0250      0.0040
                         0.0130     0.0020   |   0.0380      0.0059

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2014)     0.148      0.038     12.00      78.63
   OUTFLOW: ID= 1 (  0103)     0.148      0.019     12.08      78.38

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 49.90
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0030

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  2013)|   Area    (ha)=   0.31
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
--------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.31         0.00
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope     (%)=       0.50         2.00
     Length            (m)=      65.00        40.00
     Mannings n           =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.78	6.017	1.56	12.017	16.41	18.02	1.17
0.033	0.78	6.033	1.56	12.033	16.36	18.03	1.17
0.050	0.78	6.050	1.56	12.050	16.36	18.05	1.17
0.067	0.78	6.067	1.56	12.067	16.36	18.07	1.17
0.083	0.78	6.083	1.56	12.083	16.36	18.08	1.17
0.100	0.78	6.100	1.56	12.100	16.36	18.10	1.17
0.117	0.78	6.117	1.56	12.117	16.36	18.12	1.17
0.133	0.78	6.133	1.56	12.133	16.36	18.13	1.17
0.150	0.78	6.150	1.56	12.150	16.36	18.15	1.17
0.167	0.78	6.167	1.56	12.167	16.36	18.17	1.17
0.183	0.78	6.183	1.56	12.183	16.36	18.18	1.17
0.200	0.78	6.200	1.56	12.200	16.36	18.20	1.17
0.217	0.78	6.217	1.56	12.217	10.13	18.22	1.17
0.233	0.78	6.233	1.56	12.233	10.12	18.23	1.17
0.250	0.78	6.250	1.56	12.250	10.12	18.25	1.17
0.267	0.78	6.267	1.56	12.267	10.12	18.27	1.17
0.283	0.78	6.283	1.56	12.283	10.12	18.28	1.17
0.300	0.78	6.300	1.56	12.300	10.12	18.30	1.17
0.317	0.78	6.317	1.56	12.317	10.12	18.32	1.17
0.333	0.78	6.333	1.56	12.333	10.12	18.33	1.17
0.350	0.78	6.350	1.56	12.350	10.12	18.35	1.17
0.367	0.78	6.367	1.56	12.367	10.12	18.37	1.17
0.383	0.78	6.383	1.56	12.383	10.12	18.38	1.17
0.400	0.78	6.400	1.56	12.400	10.12	18.40	1.17
0.417	0.78	6.417	1.56	12.417	7.41	18.42	1.17
0.433	0.78	6.433	1.56	12.433	7.41	18.43	1.17
0.450	0.78	6.450	1.56	12.450	7.41	18.45	1.17
0.467	0.78	6.467	1.56	12.467	7.41	18.47	1.17
0.483	0.78	6.483	1.56	12.483	7.41	18.48	1.17
0.500	0.78	6.500	1.56	12.500	7.41	18.50	1.17
0.517	0.78	6.517	1.56	12.517	7.41	18.52	1.17
0.533	0.78	6.533	1.56	12.533	7.41	18.53	1.17
0.550	0.78	6.550	1.56	12.550	7.41	18.55	1.17
0.567	0.78	6.567	1.56	12.567	7.41	18.57	1.17
0.583	0.78	6.583	1.56	12.583	7.41	18.58	1.17
0.600	0.78	6.600	1.56	12.600	7.41	18.60	1.17
0.617	0.78	6.617	1.56	12.617	7.01	18.62	1.17
0.633	0.78	6.633	1.56	12.633	7.01	18.63	1.17
0.650	0.78	6.650	1.56	12.650	7.01	18.65	1.17
0.667	0.78	6.667	1.56	12.667	7.01	18.67	1.17
0.683	0.78	6.683	1.56	12.683	7.01	18.68	1.17
0.700	0.78	6.700	1.56	12.700	7.01	18.70	1.17
0.717	0.78	6.717	1.56	12.717	7.01	18.72	1.17
0.733	0.78	6.733	1.56	12.733	7.01	18.73	1.17
0.750	0.78	6.750	1.56	12.750	7.01	18.75	1.17

0.767	0.78	6.767	1.56	12.767	7.01	18.77	1.17
0.783	0.78	6.783	1.56	12.783	7.01	18.78	1.17
0.800	0.78	6.800	1.56	12.800	7.01	18.80	1.17
0.817	0.78	6.817	1.56	12.817	5.06	18.82	1.17
0.833	0.78	6.833	1.56	12.833	5.06	18.83	1.17
0.850	0.78	6.850	1.56	12.850	5.06	18.85	1.17
0.867	0.78	6.867	1.56	12.867	5.06	18.87	1.17
0.883	0.78	6.883	1.56	12.883	5.06	18.88	1.17
0.900	0.78	6.900	1.56	12.900	5.06	18.90	1.17
0.917	0.78	6.917	1.56	12.917	5.06	18.92	1.17
0.933	0.78	6.933	1.56	12.933	5.06	18.93	1.17
0.950	0.78	6.950	1.56	12.950	5.06	18.95	1.17
0.967	0.78	6.967	1.56	12.967	5.06	18.97	1.17
0.983	0.78	6.983	1.56	12.983	5.06	18.98	1.17
1.000	0.78	7.000	1.56	13.000	5.06	19.00	1.17
1.017	0.78	7.017	1.56	13.017	4.28	19.02	1.17
1.033	0.78	7.033	1.56	13.033	4.28	19.03	1.17
1.050	0.78	7.050	1.56	13.050	4.28	19.05	1.17
1.067	0.78	7.067	1.56	13.067	4.28	19.07	1.17
1.083	0.78	7.083	1.56	13.083	4.28	19.08	1.17
1.100	0.78	7.100	1.56	13.100	4.28	19.10	1.17
1.117	0.78	7.117	1.56	13.117	4.28	19.12	1.17
1.133	0.78	7.133	1.56	13.133	4.28	19.13	1.17
1.150	0.78	7.150	1.56	13.150	4.28	19.15	1.17
1.167	0.78	7.167	1.56	13.167	4.28	19.17	1.17
1.183	0.78	7.183	1.56	13.183	4.28	19.18	1.17
1.200	0.78	7.200	1.56	13.200	4.28	19.20	1.17
1.217	0.78	7.217	1.56	13.217	4.28	19.22	1.17
1.233	0.78	7.233	1.56	13.233	4.28	19.23	1.17
1.250	0.78	7.250	1.56	13.250	4.28	19.25	1.17
1.267	0.78	7.267	1.56	13.267	4.28	19.27	1.17
1.283	0.78	7.283	1.56	13.283	4.28	19.28	1.17
1.300	0.78	7.300	1.56	13.300	4.28	19.30	1.17
1.317	0.78	7.317	1.56	13.317	4.28	19.32	1.17
1.333	0.78	7.333	1.56	13.333	4.28	19.33	1.17
1.350	0.78	7.350	1.56	13.350	4.28	19.35	1.17
1.367	0.78	7.367	1.56	13.367	4.28	19.37	1.17
1.383	0.78	7.383	1.56	13.383	4.28	19.38	1.17
1.400	0.78	7.400	1.56	13.400	4.28	19.40	1.17
1.417	0.78	7.417	1.56	13.417	4.28	19.42	1.17
1.433	0.78	7.433	1.56	13.433	4.28	19.43	1.17
1.450	0.78	7.450	1.56	13.450	4.28	19.45	1.17
1.467	0.78	7.467	1.56	13.467	4.28	19.47	1.17
1.483	0.78	7.483	1.56	13.483	4.28	19.48	1.17
1.500	0.78	7.500	1.56	13.500	4.28	19.50	1.17
1.517	0.78	7.517	1.56	13.517	4.28	19.52	1.17
1.533	0.78	7.533	1.56	13.533	4.28	19.53	1.17
1.550	0.78	7.550	1.56	13.550	4.28	19.55	1.17
1.567	0.78	7.567	1.56	13.567	4.28	19.57	1.17
1.583	0.78	7.583	1.56	13.583	4.28	19.58	1.17
1.600	0.78	7.600	1.56	13.600	4.28	19.60	1.17
1.617	0.78	7.617	1.56	13.617	4.28	19.62	1.17
1.633	0.78	7.633	1.56	13.633	4.28	19.63	1.17
1.650	0.78	7.650	1.56	13.650	4.28	19.65	1.17
1.667	0.78	7.667	1.56	13.667	4.28	19.67	1.17
1.683	0.78	7.683	1.56	13.683	4.28	19.68	1.17
1.700	0.78	7.700	1.56	13.700	4.28	19.70	1.17
1.717	0.78	7.717	1.56	13.717	4.28	19.72	1.17
1.733	0.78	7.733	1.56	13.733	4.28	19.73	1.17
1.750	0.78	7.750	1.56	13.750	4.28	19.75	1.17
1.767	0.78	7.767	1.56	13.767	4.28	19.77	1.17
1.783	0.78	7.783	1.56	13.783	4.28	19.78	1.17
1.800	0.78	7.800	1.56	13.800	4.28	19.80	1.17
1.817	0.78	7.817	1.56	13.817	4.28	19.82	1.17
1.833	0.78	7.833	1.56	13.833	4.28	19.83	1.17
1.850	0.78	7.850	1.56	13.850	4.28	19.85	1.17
1.867	0.78	7.867	1.56	13.867	4.28	19.87	1.17
1.883	0.78	7.883	1.56	13.883	4.28	19.88	1.17
1.900	0.78	7.900	1.56	13.900	4.28	19.90	1.17
1.917	0.78	7.917	1.56	13.917	4.28	19.92	1.17
1.933	0.78	7.933	1.56	13.933	4.28	19.93	1.17
1.950	0.78	7.950	1.56	13.950	4.28	19.95	1.17
1.967	0.78	7.967	1.56	13.967	4.28	19.97	1.17
1.983	0.78	7.983	1.56	13.983	4.28	19.98	1.17
2.000	0.78	8.000	1.56	14.000	4.28	20.00	1.17
2.017	0.78	8.017	2.33	14.017	2.33	20.02	0.78
2.033	0.78	8.033	2.33	14.033	2.33	20.03	0.78
2.050	0.78	8.050	2.33	14.050	2.33	20.05	0.78
2.067	0.78	8.067	2.33	14.067	2.33	20.07	0.78
2.083	0.78	8.083	2.33	14.083	2.33	20.08	0.78
2.100	0.78	8.100	2.33	14.100	2.33	20.10	0.78
2.117	0.78	8.117	2.33	14.117	2.33	20.12	0.78
2.133	0.78	8.133	2.33	14.133	2.33	20.13	0.78
2.150	0.78	8.150	2.33	14.150	2.33	20.15	0.78
2.167	0.78	8.167	2.33	14.167	2.33	20.17	0.78
2.183	0.78	8.183	2.33	14.183	2.33	20.18	0.78
2.200	0.78	8.200	2.33	14.200	2.33	20.20	0.78
2.217	0.78	8.217	2.33	14.217	2.33	20.22	0.78
2.233	0.78	8.233	2.33	14.233	2.33	20.23	0.78
2.250	0.78	8.250	2.33	14.250	2.33	20.25	0.78
2.267	0.78	8.267	2.33	14.267	2.33	20.27	0.78
2.283	0.78	8.283	2.33	14.283	2.33	20.28	0.78
2.300	0.78	8.300	2.33	14.300	2.33	20.30	0.78
2.317	0.78	8.317	2.33	14.317	2.33	20.32	0.78
2.333	0.78	8.333	2.33	14.333	2.33	20.33	0.78
2.350	0.78	8.350	2.33	14.350	2.33	20.35	0.78
2.367	0.78	8.367	2.33	14.367	2.33	20.37	0.78
2.383	0.78	8.383	2.33	14.383	2.33	20.38	0.78
2.400	0.78	8.400	2.33	14.400	2.33	20.40	0.78
2.417	0.78	8.417	2.33	14.417	2.33	20.42	0.78

2.433	0.78	8.433	2.33	14.433	2.33	20.43	0.78
2.450	0.78	8.450	2.33	14.450	2.33	20.45	0.78
2.467	0.78	8.467	2.33	14.467	2.33	20.47	0.78
2.483	0.78	8.483	2.33	14.483	2.33	20.48	0.78
2.500	0.78	8.500	2.33	14.500	2.33	20.50	0.78
2.517	0.78	8.517	2.33	14.517	2.33	20.52	0.78
2.533	0.78	8.533	2.33	14.533	2.33	20.53	0.78
2.550	0.78	8.550	2.33	14.550	2.33	20.55	0.78
2.567	0.78	8.567	2.33	14.567	2.33	20.57	0.78
2.583	0.78	8.583	2.33	14.583	2.33	20.58	0.78
2.600	0.78	8.600	2.33	14.600	2.33	20.60	0.78
2.617	0.78	8.617	2.33	14.617	2.33	20.62	0.78
2.633	0.78	8.633	2.33	14.633	2.33	20.63	0.78
2.650	0.78	8.650	2.33	14.650	2.33	20.65	0.78
2.667	0.78	8.667	2.33	14.667	2.33	20.67	0.78
2.683	0.78	8.683	2.33	14.683	2.33	20.68	0.78
2.700	0.78	8.700	2.33	14.700	2.33	20.70	0.78
2.717	0.78	8.717	2.33	14.717	2.33	20.72	0.78
2.733	0.78	8.733	2.33	14.733	2.33	20.73	0.78
2.750	0.78	8.750	2.33	14.750	2.33	20.75	0.78
2.767	0.78	8.767	2.33	14.767	2.33	20.77	0.78
2.783	0.78	8.783	2.33	14.783	2.33	20.78	0.78
2.800	0.78	8.800	2.33	14.800	2.33	20.80	0.78
2.817	0.78	8.817	2.33	14.817	2.33	20.82	0.78
2.833	0.78	8.833	2.33	14.833	2.33	20.83	0.78
2.850	0.78	8.850	2.33	14.850	2.33	20.85	0.78
2.867	0.78	8.867	2.33	14.867	2.33	20.87	0.78
2.883	0.78	8.883	2.33	14.883	2.33	20.88	0.78
2.900	0.78	8.900	2.33	14.900	2.33	20.90	0.78
2.917	0.78	8.917	2.33	14.917	2.33	20.92	0.78
2.933	0.78	8.933	2.33	14.933	2.33	20.93	0.78
2.950	0.78	8.950	2.33	14.950	2.33	20.95	0.78
2.967	0.78	8.967	2.33	14.967	2.33	20.97	0.78
2.983	0.78	8.983	2.33	14.983	2.33	20.98	0.78
3.000	0.78	9.000	2.33	15.000	2.33	21.00	0.78
3.017	0.78	9.017	2.33	15.017	2.33	21.02	0.78
3.033	0.78	9.033	2.33	15.033	2.33	21.03	0.78
3.050	0.78	9.050	2.33	15.050	2.33	21.05	0.78
3.067	0.78	9.067	2.33	15.067	2.33	21.07	0.78
3.083	0.78	9.083	2.33	15.083	2.33	21.08	0.78
3.100	0.78	9.100	2.33	15.100	2.33	21.10	0.78
3.117	0.78	9.117	2.33	15.117	2.33	21.12	0.78
3.133	0.78	9.133	2.33	15.133	2.33	21.13	0.78
3.150	0.78	9.150	2.33	15.150	2.33	21.15	0.78
3.167	0.78	9.167	2.33	15.167	2.33	21.17	0.78
3.183	0.78	9.183	2.33	15.183	2.33	21.18	0.78
3.200	0.78	9.200	2.33	15.200	2.33	21.20	0.78
3.217	0.78	9.217	2.33	15.217	2.33	21.22	0.78
3.233	0.78	9.233	2.33	15.233	2.33	21.23	0.78
3.250	0.78	9.250	2.33	15.250	2.33	21.25	0.78
3.267	0.78	9.267	2.33	15.267	2.33	21.27	0.78
3.283	0.78	9.283	2.33	15.283	2.33	21.28	0.78
3.300	0.78	9.300	2.33	15.300	2.33	21.30	0.78
3.317	0.78	9.317	2.33	15.317	2.33	21.32	0.78
3.333	0.78	9.333	2.33	15.333	2.33	21.33	0.78
3.350	0.78	9.350	2.33	15.350	2.33	21.35	0.78
3.367	0.78	9.367	2.33	15.367	2.33	21.37	0.78
3.383	0.78	9.383	2.33	15.383	2.33	21.38	0.78
3.400	0.78	9.400	2.33	15.400	2.33	21.40	0.78
3.417	0.78	9.417	2.33	15.417	2.33	21.42	0.78
3.433	0.78	9.433	2.33	15.433	2.33	21.43	0.78
3.450	0.78	9.450	2.33	15.450	2.33	21.45	0.78
3.467	0.78	9.467	2.33	15.467	2.33	21.47	0.78
3.483	0.78	9.483	2.33	15.483	2.33	21.48	0.78
3.500	0.78	9.500	2.33	15.500	2.33	21.50	0.78
3.517	0.78	9.517	2.33	15.517	2.33	21.52	0.78
3.533	0.78	9.533	2.33	15.533	2.33	21.53	0.78
3.550	0.78	9.550	2.33	15.550	2.33	21.55	0.78
3.567	0.78	9.567	2.33	15.567	2.33	21.57	0.78
3.583	0.78	9.583	2.33	15.583	2.33	21.58	0.78
3.600	0.78	9.600	2.33	15.600	2.33	21.60	0.78
3.617	0.78	9.617	2.33	15.617	2.33	21.62	0.78
3.633	0.78	9.633	2.33	15.633	2.33	21.63	0.78
3.650	0.78	9.650	2.33	15.650	2.33	21.65	0.78
3.667	0.78	9.667	2.33	15.667	2.33	21.67	0.78
3.683	0.78	9.683	2.33	15.683	2.33	21.68	0.78
3.700	0.78	9.700	2.33	15.700	2.33	21.70	0.78
3.717	0.78	9.717	2.33	15.717	2.33	21.72	0.78
3.733	0.78	9.733	2.33	15.733	2.33	21.73	0.78
3.750	0.78	9.750	2.33	15.750	2.33	21.75	0.78
3.767	0.78	9.767	2.33	15.767	2.33	21.77	0.78
3.783	0.78	9.783	2.33	15.783	2.33	21.78	0.78
3.800	0.78	9.800	2.33	15.800	2.33	21.80	0.78
3.817	0.78	9.817	2.33	15.817	2.33	21.82	0.78
3.833	0.78	9.833	2.33	15.833	2.33	21.83	0.78
3.850	0.78	9.850	2.33	15.850	2.33	21.85	0.78
3.867	0.78	9.867	2.33	15.867	2.33	21.87	0.78
3.883	0.78	9.883	2.33	15.883	2.33	21.88	0.78
3.900	0.78	9.900	2.33	15.900	2.33	21.90	0.78
3.917	0.78	9.917	2.33	15.917	2.33	21.92	0.78
3.933	0.78	9.933	2.33	15.933	2.33	21.93	0.78
3.950	0.78	9.950	2.33	15.950	2.33	21.95	0.78
3.967	0.78	9.967	2.33	15.967	2.33	21.97	0.78
3.983	0.78	9.983	2.33	15.983	2.33	21.98	0.78
4.000	0.78	10.000	2.33	16.000	2.33	22.00	0.78
4.017	1.56	10.017	4.68	16.017	1.56	22.02	0.78
4.033	1.56	10.033	4.68	16.033	1.56	22.03	0.78
4.050	1.56	10.050	4.68	16.050	1.56	22.05	0.78
4.067	1.56	10.067	4.68	16.067	1.56	22.07	0.78
4.083	1.56	10.083	4.68	16.083	1.56	22.08	0.78

4.100	1.56	10.100	4.68	16.100	1.56	22.10	0.78
4.117	1.56	10.117	4.68	16.117	1.56	22.12	0.78
4.133	1.56	10.133	4.68	16.133	1.56	22.13	0.78
4.150	1.56	10.150	4.68	16.150	1.56	22.15	0.78
4.167	1.56	10.167	4.68	16.167	1.56	22.17	0.78
4.183	1.56	10.183	4.68	16.183	1.56	22.18	0.78
4.200	1.56	10.200	4.68	16.200	1.56	22.20	0.78
4.217	1.56	10.217	4.68	16.217	1.56	22.22	0.78
4.233	1.56	10.233	4.68	16.233	1.56	22.23	0.78
4.250	1.56	10.250	4.68	16.250	1.56	22.25	0.78
4.267	1.56	10.267	4.68	16.267	1.56	22.27	0.78
4.283	1.56	10.283	4.68	16.283	1.56	22.28	0.78
4.300	1.56	10.300	4.68	16.300	1.56	22.30	0.78
4.317	1.56	10.317	4.68	16.317	1.56	22.32	0.78
4.333	1.56	10.333	4.68	16.333	1.56	22.33	0.78
4.350	1.56	10.350	4.68	16.350	1.56	22.35	0.78
4.367	1.56	10.367	4.68	16.367	1.56	22.37	0.78
4.383	1.56	10.383	4.68	16.383	1.56	22.38	0.78
4.400	1.56	10.400	4.68	16.400	1.56	22.40	0.78
4.417	1.56	10.417	4.68	16.417	1.56	22.42	0.78
4.433	1.56	10.433	4.68	16.433	1.56	22.43	0.78
4.450	1.56	10.450	4.68	16.450	1.56	22.45	0.78
4.467	1.56	10.467	4.68	16.467	1.56	22.47	0.78
4.483	1.56	10.483	4.68	16.483	1.56	22.48	0.78
4.500	1.56	10.500	4.68	16.500	1.56	22.50	0.78
4.517	1.56	10.517	4.68	16.517	1.56	22.52	0.78
4.533	1.56	10.533	4.68	16.533	1.56	22.53	0.78
4.550	1.56	10.550	4.68	16.550	1.56	22.55	0.78
4.567	1.56	10.567	4.68	16.567	1.56	22.57	0.78
4.583	1.56	10.583	4.68	16.583	1.56	22.58	0.78
4.600	1.56	10.600	4.68	16.600	1.56	22.60	0.78
4.617	1.56	10.617	4.68	16.617	1.56	22.62	0.78
4.633	1.56	10.633	4.68	16.633	1.56	22.63	0.78
4.650	1.56	10.650	4.68	16.650	1.56	22.65	0.78
4.667	1.56	10.667	4.68	16.667	1.56	22.67	0.78
4.683	1.56	10.683	4.68	16.683	1.56	22.68	0.78
4.700	1.56	10.700	4.68	16.700	1.56	22.70	0.78
4.717	1.56	10.717	4.68	16.717	1.56	22.72	0.78
4.733	1.56	10.733	4.68	16.733	1.56	22.73	0.78
4.750	1.56	10.750	4.68	16.750	1.56	22.75	0.78
4.767	1.56	10.767	4.68	16.767	1.56	22.77	0.78
4.783	1.56	10.783	4.68	16.783	1.56	22.78	0.78
4.800	1.56	10.800	4.68	16.800	1.56	22.80	0.78
4.817	1.56	10.817	4.68	16.817	1.56	22.82	0.78
4.833	1.56	10.833	4.68	16.833	1.56	22.83	0.78
4.850	1.56	10.850	4.68	16.850	1.56	22.85	0.78
4.867	1.56	10.867	4.68	16.867	1.56	22.87	0.78
4.883	1.56	10.883	4.68	16.883	1.56	22.88	0.78
4.900	1.56	10.900	4.68	16.900	1.56	22.90	0.78
4.917	1.56	10.917	4.68	16.917	1.56	22.92	0.78
4.933	1.56	10.933	4.68	16.933	1.56	22.93	0.78
4.950	1.56	10.950	4.68	16.950	1.56	22.95	0.78
4.967	1.56	10.967	4.68	16.967	1.56	22.97	0.78
4.983	1.56	10.983	4.68	16.983	1.56	22.98	0.78
5.000	1.56	11.000	4.68	17.000	1.56	23.00	0.78
5.017	1.56	11.017	6.23	17.017	1.56	23.02	0.78
5.033	1.56	11.033	6.23	17.033	1.56	23.03	0.78
5.050	1.56	11.050	6.23	17.050	1.56	23.05	0.78
5.067	1.56	11.067	6.23	17.067	1.56	23.07	0.78
5.083	1.56	11.083	6.23	17.083	1.56	23.08	0.78
5.100	1.56	11.100	6.23	17.100	1.56	23.10	0.78
5.117	1.56	11.117	6.23	17.117	1.56	23.12	0.78
5.133	1.56	11.133	6.23	17.133	1.56	23.13	0.78
5.150	1.56	11.150	6.23	17.150	1.56	23.15	0.78
5.167	1.56	11.167	6.23	17.167	1.56	23.17	0.78
5.183	1.56	11.183	6.23	17.183	1.56	23.18	0.78
5.200	1.56	11.200	6.23	17.200	1.56	23.20	0.78
5.217	1.56	11.217	8.96	17.217	1.56	23.22	0.78
5.233	1.56	11.233	8.96	17.233	1.56	23.23	0.78
5.250	1.56	11.250	8.96	17.250	1.56	23.25	0.78
5.267	1.56	11.267	8.96	17.267	1.56	23.27	0.78
5.283	1.56	11.283	8.96	17.283	1.56	23.28	0.78
5.300	1.56	11.300	8.96	17.300	1.56	23.30	0.78
5.317	1.56	11.317	8.96	17.317	1.56	23.32	0.78
5.333	1.56	11.333	8.96	17.333	1.56	23.33	0.78
5.350	1.56	11.350	8.96	17.350	1.56	23.35	0.78
5.367	1.56	11.367	8.96	17.367	1.56	23.37	0.78
5.383	1.56	11.383	8.96	17.383	1.56	23.38	0.78
5.400	1.56	11.400	8.96	17.400	1.56	23.40	0.78
5.417	1.56	11.417	20.26	17.417	1.56	23.42	0.78
5.433	1.56	11.433	20.26	17.433	1.56	23.43	0.78
5.450	1.56	11.450	20.26	17.450	1.56	23.45	0.78
5.467	1.56	11.467	20.26	17.467	1.56	23.47	0.78
5.483	1.56	11.483	20.26	17.483	1.56	23.48	0.78
5.500	1.56	11.500	20.26	17.500	1.56	23.50	0.78
5.517	1.56	11.517	20.26	17.517	1.56	23.52	0.78
5.533	1.56	11.533	20.26	17.533	1.56	23.53	0.78
5.550	1.56	11.550	20.26	17.550	1.56	23.55	0.78
5.567	1.56	11.567	20.26	17.567	1.56	23.57	0.78
5.583	1.56	11.583	20.26	17.583	1.56	23.58	0.78
5.600	1.56	11.600	20.26	17.600	1.56	23.60	0.78
5.617	1.56	11.617	44.41	17.617	1.56	23.62	0.78
5.633	1.56	11.633	44.42	17.633	1.56	23.63	0.78
5.650	1.56	11.650	44.42	17.650	1.56	23.65	0.78
5.667	1.56	11.667	44.42	17.667	1.56	23.67	0.78
5.683	1.56	11.683	44.42	17.683	1.56	23.68	0.78
5.700	1.56	11.700	44.42	17.700	1.56	23.70	0.78
5.717	1.56	11.717	44.42	17.717	1.56	23.72	0.78
5.733	1.56	11.733	44.42	17.733	1.56	23.73	0.78
5.750	1.56	11.750	44.42	17.750	1.56	23.75	0.78

5.767	1.56	11.767	44.42	17.767	1.56	23.77	0.78
5.783	1.56	11.783	44.42	17.783	1.56	23.78	0.78
5.800	1.56	11.800	44.42	17.800	1.56	23.80	0.78
5.817	1.56	11.817	92.68	17.817	1.56	23.82	0.78
5.833	1.56	11.833	92.71	17.833	1.56	23.83	0.78
5.850	1.56	11.850	92.71	17.850	1.56	23.85	0.78
5.867	1.56	11.867	92.71	17.867	1.56	23.87	0.78
5.883	1.56	11.883	92.71	17.883	1.56	23.88	0.78
5.900	1.56	11.900	92.71	17.900	1.56	23.90	0.78
5.917	1.56	11.917	92.71	17.917	1.56	23.92	0.78
5.933	1.56	11.933	92.71	17.933	1.56	23.93	0.78
5.950	1.56	11.950	92.71	17.950	1.56	23.95	0.78
5.967	1.56	11.967	92.71	17.967	1.56	23.97	0.78
5.983	1.56	11.983	92.71	17.983	1.56	23.98	0.78
6.000	1.56	12.000	92.71	18.000	1.56	24.00	0.78

Max.Eff.Inten.(mm/hr)=	92.71	68.92	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.50 (ii)	3.66 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.34	0.30	
			TOTALS
PEAK FLOW (cms)=	0.08	0.00	0.079 (iii)
TIME TO PEAK (hrs)=	12.00	12.00	12.00
RUNOFF VOLUME (mm)=	78.93	49.91	78.63
TOTAL RAINFALL (mm)=	79.93	79.93	79.93
RUNOFF COEFFICIENT =	0.99	0.62	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0102)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0440	0.0083
	0.0220	0.0041	0.0660	0.0124

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2013)	0.310	0.079	12.00	78.63
OUTFLOW: ID= 1 (0102)	0.310	0.035	12.10	78.48

PEAK FLOW REDUCTION [Qout/Qin](%)= 45.19

TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0067

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

ADD HYD (0001)		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3	ID1= 1 (0101):	0.23	0.029	12.08	78.18
	+ ID2= 2 (0102):	0.31	0.035	12.10	78.48
	ID = 3 (0001):	0.54	0.064	12.08	78.36

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0001)		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
3 + 2 = 1	ID1= 3 (0001):	0.54	0.064	12.08	78.36
	+ ID2= 2 (0103):	0.15	0.019	12.08	78.38
	ID = 1 (0001):	0.69	0.083	12.08	78.36

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
STANDHYD (0204)	Area (ha)= 0.33		
ID= 1 DT= 5.0 min	Total Imp(%)= 55.00	Dir. Conn.(%)= 55.00	
		IMPERVIOUS	PERVIOUS (i)
	Surface Area (ha)=	0.18	0.15
	Dep. Storage (mm)=	1.00	5.00
	Average Slope (%)=	1.00	2.00
	Length (m)=	46.60	40.00
	Mannings n =	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.78	6.083	1.56	12.083	16.37	18.08	1.17
0.167	0.78	6.167	1.56	12.167	16.36	18.17	1.17
0.250	0.78	6.250	1.56	12.250	12.62	18.25	1.17

0.333	0.78	6.333	1.56	12.333	10.12	18.33	1.17
0.417	0.78	6.417	1.56	12.417	9.58	18.42	1.17
0.500	0.78	6.500	1.56	12.500	7.41	18.50	1.17
0.583	0.78	6.583	1.56	12.583	7.41	18.58	1.17
0.667	0.78	6.667	1.56	12.667	7.09	18.67	1.17
0.750	0.78	6.750	1.56	12.750	7.01	18.75	1.17
0.833	0.78	6.833	1.56	12.833	6.23	18.83	1.17
0.917	0.78	6.917	1.56	12.917	5.06	18.92	1.17
1.000	0.78	7.000	1.56	13.000	5.06	19.00	1.17
1.083	0.78	7.083	1.56	13.083	4.28	19.08	1.17
1.167	0.78	7.167	1.56	13.167	4.28	19.17	1.17
1.250	0.78	7.250	1.56	13.250	4.28	19.25	1.17
1.333	0.78	7.333	1.56	13.333	4.28	19.33	1.17
1.417	0.78	7.417	1.56	13.417	4.28	19.42	1.17
1.500	0.78	7.500	1.56	13.500	4.28	19.50	1.17
1.583	0.78	7.583	1.56	13.583	4.28	19.58	1.17
1.667	0.78	7.667	1.56	13.667	4.28	19.67	1.17
1.750	0.78	7.750	1.56	13.750	4.28	19.75	1.17
1.833	0.78	7.833	1.56	13.833	4.28	19.83	1.17
1.917	0.78	7.917	1.56	13.917	4.28	19.92	1.17
2.000	0.78	8.000	1.56	14.000	4.28	20.00	1.17
2.083	0.78	8.083	2.33	14.083	2.33	20.08	0.78
2.167	0.78	8.167	2.33	14.167	2.33	20.17	0.78
2.250	0.78	8.250	2.33	14.250	2.33	20.25	0.78
2.333	0.78	8.333	2.33	14.333	2.33	20.33	0.78
2.417	0.78	8.417	2.33	14.417	2.33	20.42	0.78
2.500	0.78	8.500	2.33	14.500	2.33	20.50	0.78
2.583	0.78	8.583	2.33	14.583	2.33	20.58	0.78
2.667	0.78	8.667	2.33	14.667	2.33	20.67	0.78
2.750	0.78	8.750	2.33	14.750	2.33	20.75	0.78
2.833	0.78	8.833	2.33	14.833	2.33	20.83	0.78
2.917	0.78	8.917	2.33	14.917	2.33	20.92	0.78
3.000	0.78	9.000	2.33	15.000	2.33	21.00	0.78
3.083	0.78	9.083	2.33	15.083	2.33	21.08	0.78
3.167	0.78	9.167	2.33	15.167	2.33	21.17	0.78
3.250	0.78	9.250	2.33	15.250	2.33	21.25	0.78
3.333	0.78	9.333	2.33	15.333	2.33	21.33	0.78
3.417	0.78	9.417	2.33	15.417	2.33	21.42	0.78
3.500	0.78	9.500	2.33	15.500	2.33	21.50	0.78
3.583	0.78	9.583	2.33	15.583	2.33	21.58	0.78
3.667	0.78	9.667	2.33	15.667	2.33	21.67	0.78
3.750	0.78	9.750	2.33	15.750	2.33	21.75	0.78
3.833	0.78	9.833	2.33	15.833	2.33	21.83	0.78
3.917	0.78	9.917	2.33	15.917	2.33	21.92	0.78
4.000	0.78	10.000	2.33	16.000	2.33	22.00	0.78
4.083	1.56	10.083	4.68	16.083	1.56	22.08	0.78
4.167	1.56	10.167	4.68	16.167	1.56	22.17	0.78
4.250	1.56	10.250	4.68	16.250	1.56	22.25	0.78
4.333	1.56	10.333	4.68	16.333	1.56	22.33	0.78
4.417	1.56	10.417	4.68	16.417	1.56	22.42	0.78
4.500	1.56	10.500	4.68	16.500	1.56	22.50	0.78
4.583	1.56	10.583	4.68	16.583	1.56	22.58	0.78
4.667	1.56	10.667	4.68	16.667	1.56	22.67	0.78
4.750	1.56	10.750	4.68	16.750	1.56	22.75	0.78
4.833	1.56	10.833	4.68	16.833	1.56	22.83	0.78
4.917	1.56	10.917	4.68	16.917	1.56	22.92	0.78
5.000	1.56	11.000	4.68	17.000	1.56	23.00	0.78
5.083	1.56	11.083	6.23	17.083	1.56	23.08	0.78
5.167	1.56	11.167	6.23	17.167	1.56	23.17	0.78
5.250	1.56	11.250	7.87	17.250	1.56	23.25	0.78
5.333	1.56	11.333	8.96	17.333	1.56	23.33	0.78
5.417	1.56	11.417	11.22	17.417	1.56	23.42	0.78
5.500	1.56	11.500	20.26	17.500	1.56	23.50	0.78
5.583	1.56	11.583	20.26	17.583	1.56	23.58	0.78
5.667	1.56	11.667	39.59	17.667	1.56	23.67	0.78
5.750	1.56	11.750	44.42	17.750	1.56	23.75	0.78
5.833	1.56	11.833	63.73	17.833	1.56	23.83	0.78
5.917	1.56	11.917	92.71	17.917	1.56	23.92	0.78
6.000	1.56	12.000	92.71	18.000	1.56	24.00	0.78

Max.Eff.Inten.(mm/hr)=	92.71	26.60	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.67 (ii)	13.65 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.32	0.08	
			TOTALS
PEAK FLOW (cms)=	0.05	0.01	0.052 (iii)
TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	78.93	22.33	53.43
TOTAL RAINFALL (mm)=	79.93	79.93	79.93
RUNOFF COEFFICIENT =	0.99	0.28	0.67

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0002)				
1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0001):	0.69	0.083	12.08	78.36
+ ID2= 2 (2011):	1.84	0.388	12.00	65.91
ID = 3 (0002):	2.53	0.461	12.00	69.29

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0002)		AREA	QPEAK	TPEAK	R.V.
3 + 2 = 1		(ha)	(cms)	(hrs)	(mm)
	ID1= 3 (0002):	2.53	0.461	12.00	69.29
	+ ID2= 2 (0204):	0.33	0.052	12.00	53.43
	ID = 1 (0002):	2.85	0.513	12.00	67.48

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CHAMBER(0025)	OUTFLOW: ON, UNDERDRAIN: OFF, INFIL: OFF
IN= 2--> OUT= 3	CHAMBER:
DT= 5.0 min	MAX STO VOL (cu.m.)= 710.04 Bottom Area(m2) = 614.46

DEPTH (mm)	STORAGE (cu.m.)	DEPTH (mm)	STORAGE (cu.m.)
0.00	0.00	864.00	430.26
25.00	13.40	889.00	441.69
51.00	26.76	914.00	453.02
76.00	40.09	940.00	464.23
102.00	53.40	965.00	475.34
127.00	66.68	991.00	486.32
152.00	79.92	1016.00	497.18
178.00	93.14	1041.00	507.92
203.00	106.32	1067.00	518.52
229.00	119.46	1092.00	528.98
254.00	132.57	1118.00	539.29
279.00	145.64	1143.00	549.44
305.00	158.66	1168.00	559.43
330.00	171.65	1194.00	569.25
356.00	184.58	1219.00	578.88
381.00	197.47	1245.00	588.32
406.00	210.31	1270.00	597.54
432.00	223.09	1295.00	606.52
457.00	235.83	1321.00	615.24
483.00	248.51	1346.00	623.67
508.00	261.13	1372.00	631.72
533.00	273.68	1397.00	639.20
559.00	286.18	1422.00	646.18
584.00	298.61	1448.00	653.00
610.00	310.97	1473.00	659.69
635.00	323.26	1499.00	666.24
660.00	335.48	1524.00	672.59
686.00	347.62	1549.00	678.83
711.00	359.68	1575.00	685.08
737.00	371.67	1600.00	691.32
762.00	383.57	1626.00	697.56
787.00	395.38	1651.00	703.80
813.00	407.10	1676.00	710.04
838.00	418.73	0.00	0.00

DEPTH (m)	DISCHARGE (cms)	DEPTH (m)	DISCHARGE (cms)
0.000	0.000	1.255	0.504
0.455	0.000	1.355	0.535
0.555	0.178	1.455	0.564
0.655	0.252	1.555	0.591
0.755	0.309	1.655	0.617
0.855	0.356	1.755	0.643
0.955	0.399	1.855	0.667
1.055	0.437	1.955	0.690
1.155	0.472	2.055	0.713

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW:ID= 2	2.85	0.513	12.00	67.48
OUTFLOW:ID= 1	2.85	0.357	12.03	59.25
OVERFLOW:ID= 3	0.00	0.000	0.00	0.00

Volume Reduction Rate[(RVin-RVout)/RVin](%)= 12.20
Time to reach Max storage (Hr)= 12.03
Volume of water for drawdown in LID (cu.m.)= 234.86
Volume of maximum water storage (cu.m.)= 405.67
***** After simulation, water volume is not zero.

Junction Command(0034)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

Junction Command(0035)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.36	12.03	59.25
OUTFLOW: ID= 2(0035)	2.85	0.36	12.03	59.25

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  --------------------------------------------------------------------------------
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| CALIB            |
| STANDHYD (  0202)|   Area    (ha)=   0.10
|ID= 1 DT= 5.0 min |   Total Imp(%)=  11.00   Dir. Conn.(%)=  11.00
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                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.01         0.09
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      25.66        40.00
     Mannings n             =    0.013        0.250

         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     0.78 | 6.083     1.56 |12.083    16.37 | 18.08     1.17
 0.167     0.78 | 6.167     1.56 |12.167    16.36 | 18.17     1.17
 0.250     0.78 | 6.250     1.56 |12.250    12.62 | 18.25     1.17
 0.333     0.78 | 6.333     1.56 |12.333    10.12 | 18.33     1.17
 0.417     0.78 | 6.417     1.56 |12.417     9.58 | 18.42     1.17
 0.500     0.78 | 6.500     1.56 |12.500     7.41 | 18.50     1.17
 0.583     0.78 | 6.583     1.56 |12.583     7.41 | 18.58     1.17
 0.667     0.78 | 6.667     1.56 |12.667     7.09 | 18.67     1.17
 0.750     0.78 | 6.750     1.56 |12.750     7.01 | 18.75     1.17
 0.833     0.78 | 6.833     1.56 |12.833     6.23 | 18.83     1.17
 0.917     0.78 | 6.917     1.56 |12.917     5.06 | 18.92     1.17
 1.000     0.78 | 7.000     1.56 |13.000     5.06 | 19.00     1.17
 1.083     0.78 | 7.083     1.56 |13.083     4.28 | 19.08     1.17
 1.167     0.78 | 7.167     1.56 |13.167     4.28 | 19.17     1.17
 1.250     0.78 | 7.250     1.56 |13.250     4.28 | 19.25     1.17
 1.333     0.78 | 7.333     1.56 |13.333     4.28 | 19.33     1.17
 1.417     0.78 | 7.417     1.56 |13.417     4.28 | 19.42     1.17
 1.500     0.78 | 7.500     1.56 |13.500     4.28 | 19.50     1.17
 1.583     0.78 | 7.583     1.56 |13.583     4.28 | 19.58     1.17
 1.667     0.78 | 7.667     1.56 |13.667     4.28 | 19.67     1.17
 1.750     0.78 | 7.750     1.56 |13.750     4.28 | 19.75     1.17
 1.833     0.78 | 7.833     1.56 |13.833     4.28 | 19.83     1.17
 1.917     0.78 | 7.917     1.56 |13.917     4.28 | 19.92     1.17
 2.000     0.78 | 8.000     1.56 |14.000     4.28 | 20.00     1.17
 2.083     0.78 | 8.083     2.33 |14.083     2.33 | 20.08     0.78
 2.167     0.78 | 8.167     2.33 |14.167     2.33 | 20.17     0.78
 2.250     0.78 | 8.250     2.33 |14.250     2.33 | 20.25     0.78
 2.333     0.78 | 8.333     2.33 |14.333     2.33 | 20.33     0.78
 2.417     0.78 | 8.417     2.33 |14.417     2.33 | 20.42     0.78
 2.500     0.78 | 8.500     2.33 |14.500     2.33 | 20.50     0.78
 2.583     0.78 | 8.583     2.33 |14.583     2.33 | 20.58     0.78
 2.667     0.78 | 8.667     2.33 |14.667     2.33 | 20.67     0.78
 2.750     0.78 | 8.750     2.33 |14.750     2.33 | 20.75     0.78
 2.833     0.78 | 8.833     2.33 |14.833     2.33 | 20.83     0.78
 2.917     0.78 | 8.917     2.33 |14.917     2.33 | 20.92     0.78
 3.000     0.78 | 9.000     2.33 |15.000     2.33 | 21.00     0.78
 3.083     0.78 | 9.083     2.33 |15.083     2.33 | 21.08     0.78
 3.167     0.78 | 9.167     2.33 |15.167     2.33 | 21.17     0.78
 3.250     0.78 | 9.250     2.33 |15.250     2.33 | 21.25     0.78
 3.333     0.78 | 9.333     2.33 |15.333     2.33 | 21.33     0.78
 3.417     0.78 | 9.417     2.33 |15.417     2.33 | 21.42     0.78
 3.500     0.78 | 9.500     2.33 |15.500     2.33 | 21.50     0.78
 3.583     0.78 | 9.583     2.33 |15.583     2.33 | 21.58     0.78
 3.667     0.78 | 9.667     2.33 |15.667     2.33 | 21.67     0.78
 3.750     0.78 | 9.750     2.33 |15.750     2.33 | 21.75     0.78
 3.833     0.78 | 9.833     2.33 |15.833     2.33 | 21.83     0.78
 3.917     0.78 | 9.917     2.33 |15.917     2.33 | 21.92     0.78
 4.000     0.78 |10.000     2.33 |16.000     2.33 | 22.00     0.78
 4.083     1.56 |10.083     4.68 |16.083     1.56 | 22.08     0.78
 4.167     1.56 |10.167     4.68 |16.167     1.56 | 22.17     0.78
 4.250     1.56 |10.250     4.68 |16.250     1.56 | 22.25     0.78
 4.333     1.56 |10.333     4.68 |16.333     1.56 | 22.33     0.78
 4.417     1.56 |10.417     4.68 |16.417     1.56 | 22.42     0.78
 4.500     1.56 |10.500     4.68 |16.500     1.56 | 22.50     0.78
 4.583     1.56 |10.583     4.68 |16.583     1.56 | 22.58     0.78
 4.667     1.56 |10.667     4.68 |16.667     1.56 | 22.67     0.78
 4.750     1.56 |10.750     4.68 |16.750     1.56 | 22.75     0.78
 4.833     1.56 |10.833     4.68 |16.833     1.56 | 22.83     0.78
 4.917     1.56 |10.917     4.68 |16.917     1.56 | 22.92     0.78
 5.000     1.56 |11.000     4.68 |17.000     1.56 | 23.00     0.78
 5.083     1.56 |11.083     6.23 |17.083     1.56 | 23.08     0.78
 5.167     1.56 |11.167     6.23 |17.167     1.56 | 23.17     0.78
 5.250     1.56 |11.250     7.87 |17.250     1.56 | 23.25     0.78
 5.333     1.56 |11.333     8.96 |17.333     1.56 | 23.33     0.78
 5.417     1.56 |11.417    11.22 |17.417     1.56 | 23.42     0.78
 5.500     1.56 |11.500    20.26 |17.500     1.56 | 23.50     0.78
 5.583     1.56 |11.583    20.26 |17.583     1.56 | 23.58     0.78
 5.667     1.56 |11.667    39.59 |17.667     1.56 | 23.67     0.78
 5.750     1.56 |11.750    44.42 |17.750     1.56 | 23.75     0.78
 5.833     1.56 |11.833    63.73 |17.833     1.56 | 23.83     0.78
 5.917     1.56 |11.917    92.71 |17.917     1.56 | 23.92     0.78
 6.000     1.56 |12.000    92.71 |18.000     1.56 | 24.00     0.78

Max.Eff.Inten.(mm/hr)=      92.71        26.60
          over (min)         5.00        15.00
Storage Coeff.  (min)=       1.16 (ii)   13.15 (ii)
Unit Hyd. Tpeak (min)=       5.00        15.00
Unit Hyd. peak  (cms)=       0.34         0.08
                                                    *TOTALS*
PEAK FLOW       (cms)=       0.00         0.00          0.006 (iii)
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TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	78.93	22.33	28.46
TOTAL RAINFALL (mm)=	79.93	79.93	79.93
RUNOFF COEFFICIENT =	0.99	0.28	0.36

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0203) | Area (ha)= 0.05
ID= 1 DT= 5.0 min | Total Imp(%)= 27.00 Dir. Conn.(%)= 27.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.04
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	18.90	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.78	6.083	1.56	12.083	16.37	18.08	1.17
0.167	0.78	6.167	1.56	12.167	16.36	18.17	1.17
0.250	0.78	6.250	1.56	12.250	12.62	18.25	1.17
0.333	0.78	6.333	1.56	12.333	10.12	18.33	1.17
0.417	0.78	6.417	1.56	12.417	9.58	18.42	1.17
0.500	0.78	6.500	1.56	12.500	7.41	18.50	1.17
0.583	0.78	6.583	1.56	12.583	7.41	18.58	1.17
0.667	0.78	6.667	1.56	12.667	7.09	18.67	1.17
0.750	0.78	6.750	1.56	12.750	7.01	18.75	1.17
0.833	0.78	6.833	1.56	12.833	6.23	18.83	1.17
0.917	0.78	6.917	1.56	12.917	5.06	18.92	1.17
1.000	0.78	7.000	1.56	13.000	5.06	19.00	1.17
1.083	0.78	7.083	1.56	13.083	4.28	19.08	1.17
1.167	0.78	7.167	1.56	13.167	4.28	19.17	1.17
1.250	0.78	7.250	1.56	13.250	4.28	19.25	1.17
1.333	0.78	7.333	1.56	13.333	4.28	19.33	1.17
1.417	0.78	7.417	1.56	13.417	4.28	19.42	1.17
1.500	0.78	7.500	1.56	13.500	4.28	19.50	1.17
1.583	0.78	7.583	1.56	13.583	4.28	19.58	1.17
1.667	0.78	7.667	1.56	13.667	4.28	19.67	1.17
1.750	0.78	7.750	1.56	13.750	4.28	19.75	1.17
1.833	0.78	7.833	1.56	13.833	4.28	19.83	1.17
1.917	0.78	7.917	1.56	13.917	4.28	19.92	1.17
2.000	0.78	8.000	1.56	14.000	4.28	20.00	1.17
2.083	0.78	8.083	2.33	14.083	2.33	20.08	0.78
2.167	0.78	8.167	2.33	14.167	2.33	20.17	0.78
2.250	0.78	8.250	2.33	14.250	2.33	20.25	0.78
2.333	0.78	8.333	2.33	14.333	2.33	20.33	0.78
2.417	0.78	8.417	2.33	14.417	2.33	20.42	0.78
2.500	0.78	8.500	2.33	14.500	2.33	20.50	0.78
2.583	0.78	8.583	2.33	14.583	2.33	20.58	0.78
2.667	0.78	8.667	2.33	14.667	2.33	20.67	0.78
2.750	0.78	8.750	2.33	14.750	2.33	20.75	0.78
2.833	0.78	8.833	2.33	14.833	2.33	20.83	0.78
2.917	0.78	8.917	2.33	14.917	2.33	20.92	0.78
3.000	0.78	9.000	2.33	15.000	2.33	21.00	0.78
3.083	0.78	9.083	2.33	15.083	2.33	21.08	0.78
3.167	0.78	9.167	2.33	15.167	2.33	21.17	0.78
3.250	0.78	9.250	2.33	15.250	2.33	21.25	0.78
3.333	0.78	9.333	2.33	15.333	2.33	21.33	0.78
3.417	0.78	9.417	2.33	15.417	2.33	21.42	0.78
3.500	0.78	9.500	2.33	15.500	2.33	21.50	0.78
3.583	0.78	9.583	2.33	15.583	2.33	21.58	0.78
3.667	0.78	9.667	2.33	15.667	2.33	21.67	0.78
3.750	0.78	9.750	2.33	15.750	2.33	21.75	0.78
3.833	0.78	9.833	2.33	15.833	2.33	21.83	0.78
3.917	0.78	9.917	2.33	15.917	2.33	21.92	0.78
4.000	0.78	10.000	2.33	16.000	2.33	22.00	0.78
4.083	1.56	10.083	4.68	16.083	1.56	22.08	0.78
4.167	1.56	10.167	4.68	16.167	1.56	22.17	0.78
4.250	1.56	10.250	4.68	16.250	1.56	22.25	0.78
4.333	1.56	10.333	4.68	16.333	1.56	22.33	0.78
4.417	1.56	10.417	4.68	16.417	1.56	22.42	0.78
4.500	1.56	10.500	4.68	16.500	1.56	22.50	0.78
4.583	1.56	10.583	4.68	16.583	1.56	22.58	0.78
4.667	1.56	10.667	4.68	16.667	1.56	22.67	0.78
4.750	1.56	10.750	4.68	16.750	1.56	22.75	0.78
4.833	1.56	10.833	4.68	16.833	1.56	22.83	0.78
4.917	1.56	10.917	4.68	16.917	1.56	22.92	0.78
5.000	1.56	11.000	4.68	17.000	1.56	23.00	0.78
5.083	1.56	11.083	6.23	17.083	1.56	23.08	0.78
5.167	1.56	11.167	6.23	17.167	1.56	23.17	0.78
5.250	1.56	11.250	7.87	17.250	1.56	23.25	0.78
5.333	1.56	11.333	8.96	17.333	1.56	23.33	0.78
5.417	1.56	11.417	11.22	17.417	1.56	23.42	0.78
5.500	1.56	11.500	20.26	17.500	1.56	23.50	0.78

5.583	1.56	11.583	20.26	17.583	1.56	23.58	0.78
5.667	1.56	11.667	39.59	17.667	1.56	23.67	0.78
5.750	1.56	11.750	44.42	17.750	1.56	23.75	0.78
5.833	1.56	11.833	63.73	17.833	1.56	23.83	0.78
5.917	1.56	11.917	92.71	17.917	1.56	23.92	0.78
6.000	1.56	12.000	92.71	18.000	1.56	24.00	0.78

Max.Eff.Inten.(mm/hr)=	92.71	26.60	
over (min)	5.00	15.00	
Storage Coeff. (min)=	0.97 (ii)	12.96 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.34	0.08	
			TOTALS
PEAK FLOW (cms)=	0.00	0.00	0.005 (iii)
TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	78.93	22.33	35.51
TOTAL RAINFALL (mm)=	79.93	79.93	79.93
RUNOFF COEFFICIENT =	0.99	0.28	0.44

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0003)				
1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0202):	0.10	0.006	12.00	28.46
+ ID2= 2 (0203):	0.05	0.005	12.00	35.51
ID = 3 (0003):	0.15	0.012	12.00	30.94

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0003)				
3 + 2 = 1	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
*** W A R N I N G : HYDROGRAPH 0034 <ID= 2> IS DRY.				
*** W A R N I N G : HYDROGRAPH 0001 = HYDROGRAPH 0003				
ID1= 3 (0003):	0.15	0.012	12.00	30.94
+ ID2= 2 (0034):	0.00	0.000	0.00	0.00
ID = 1 (0003):	0.15	0.012	12.00	30.94

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0003)				
1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0003):	0.15	0.012	12.00	30.94
+ ID2= 2 (0035):	2.85	0.357	12.03	59.25
ID = 3 (0003):	3.00	0.367	12.03	57.82

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

****
** SIMULATION:1.3 25Y24HSCS **
****

READ STORM	Filename: C:\Users\CAAS077425\AppData\Local\Temp\928a9435-1a45-4733-a537-3482c3d30588\6b9410f5
Ptotal= 95.95 mm	Comments: 25Y24HSCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	1.02	6.00	2.03	12.00	18.80	18.00	2.03
0.20	1.02	6.20	2.03	12.20	11.68	18.20	2.03
0.40	1.02	6.40	2.03	12.40	8.38	18.40	2.03
0.60	1.02	6.60	2.03	12.60	8.13	18.60	2.03
0.80	1.02	6.80	2.03	12.80	5.59	18.80	2.03
1.00	1.02	7.00	2.03	13.00	4.83	19.00	1.52
1.20	1.02	7.20	2.03	13.20	4.83	19.20	1.52
1.40	1.02	7.40	2.03	13.40	4.83	19.40	1.52
1.60	1.02	7.60	2.03	13.60	4.83	19.60	1.52
1.80	1.02	7.80	2.03	13.80	4.83	19.80	1.52
2.00	1.02	8.00	2.79	14.00	2.79	20.00	1.52
2.20	1.02	8.20	2.79	14.20	2.79	20.20	1.52
2.40	1.02	8.40	2.79	14.40	2.79	20.40	1.52
2.60	1.02	8.60	2.79	14.60	2.79	20.60	1.52
2.80	1.02	8.80	2.79	14.80	2.79	20.80	1.52
3.00	1.02	9.00	2.79	15.00	2.79	21.00	1.02
3.20	1.02	9.20	2.79	15.20	2.79	21.20	1.02
3.40	1.02	9.40	2.79	15.40	2.79	21.40	1.02
3.60	1.02	9.60	2.79	15.60	2.79	21.60	1.02
3.80	1.02	9.80	2.79	15.80	2.79	21.80	1.02
4.00	2.03	10.00	5.08	16.00	2.03	22.00	1.02
4.20	2.03	10.20	5.08	16.20	2.03	22.20	1.02

4.40	2.03	10.40	5.08	16.40	2.03	22.40	1.02
4.60	2.03	10.60	5.08	16.60	2.03	22.60	1.02
4.80	2.03	10.80	5.08	16.80	2.03	22.80	1.02
5.00	2.03	11.00	7.11	17.00	2.03	23.00	1.02
5.20	2.03	11.20	10.41	17.20	2.03	23.20	1.02
5.40	2.03	11.40	23.37	17.40	2.03	23.40	1.02
5.60	2.03	11.60	51.56	17.60	2.03	23.60	1.02
5.80	2.03	11.80	107.44	17.80	2.03	23.80	1.02

CALIB	
STANDHYD (2011)	Area (ha)= 1.84
ID= 1 DT= 5.0 min	Total Imp(%)= 77.00 Dir. Conn.(%)= 77.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.42	0.42
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	110.72	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	1.02	6.083	2.03	12.083	18.81	18.08	2.03
0.167	1.02	6.167	2.03	12.167	18.80	18.17	2.03
0.250	1.02	6.250	2.03	12.250	14.53	18.25	2.03
0.333	1.02	6.333	2.03	12.333	11.68	18.33	2.03
0.417	1.02	6.417	2.03	12.417	11.02	18.42	2.03
0.500	1.02	6.500	2.03	12.500	8.38	18.50	2.03
0.583	1.02	6.583	2.03	12.583	8.38	18.58	2.03
0.667	1.02	6.667	2.03	12.667	8.18	18.67	2.03
0.750	1.02	6.750	2.03	12.750	8.13	18.75	2.03
0.833	1.02	6.833	2.03	12.833	7.11	18.83	2.03
0.917	1.02	6.917	2.03	12.917	5.59	18.92	2.03
1.000	1.02	7.000	2.03	13.000	5.59	19.00	2.03
1.083	1.02	7.083	2.03	13.083	4.83	19.08	1.52
1.167	1.02	7.167	2.03	13.167	4.83	19.17	1.52
1.250	1.02	7.250	2.03	13.250	4.83	19.25	1.52
1.333	1.02	7.333	2.03	13.333	4.83	19.33	1.52
1.417	1.02	7.417	2.03	13.417	4.83	19.42	1.52
1.500	1.02	7.500	2.03	13.500	4.83	19.50	1.52
1.583	1.02	7.583	2.03	13.583	4.83	19.58	1.52
1.667	1.02	7.667	2.03	13.667	4.83	19.67	1.52
1.750	1.02	7.750	2.03	13.750	4.83	19.75	1.52
1.833	1.02	7.833	2.03	13.833	4.83	19.83	1.52
1.917	1.02	7.917	2.03	13.917	4.83	19.92	1.52
2.000	1.02	8.000	2.03	14.000	4.83	20.00	1.52
2.083	1.02	8.083	2.79	14.083	2.79	20.08	1.52
2.167	1.02	8.167	2.79	14.167	2.79	20.17	1.52
2.250	1.02	8.250	2.79	14.250	2.79	20.25	1.52
2.333	1.02	8.333	2.79	14.333	2.79	20.33	1.52
2.417	1.02	8.417	2.79	14.417	2.79	20.42	1.52
2.500	1.02	8.500	2.79	14.500	2.79	20.50	1.52
2.583	1.02	8.583	2.79	14.583	2.79	20.58	1.52
2.667	1.02	8.667	2.79	14.667	2.79	20.67	1.52
2.750	1.02	8.750	2.79	14.750	2.79	20.75	1.52
2.833	1.02	8.833	2.79	14.833	2.79	20.83	1.52
2.917	1.02	8.917	2.79	14.917	2.79	20.92	1.52
3.000	1.02	9.000	2.79	15.000	2.79	21.00	1.52
3.083	1.02	9.083	2.79	15.083	2.79	21.08	1.02
3.167	1.02	9.167	2.79	15.167	2.79	21.17	1.02
3.250	1.02	9.250	2.79	15.250	2.79	21.25	1.02
3.333	1.02	9.333	2.79	15.333	2.79	21.33	1.02
3.417	1.02	9.417	2.79	15.417	2.79	21.42	1.02
3.500	1.02	9.500	2.79	15.500	2.79	21.50	1.02
3.583	1.02	9.583	2.79	15.583	2.79	21.58	1.02
3.667	1.02	9.667	2.79	15.667	2.79	21.67	1.02
3.750	1.02	9.750	2.79	15.750	2.79	21.75	1.02
3.833	1.02	9.833	2.79	15.833	2.79	21.83	1.02
3.917	1.02	9.917	2.79	15.917	2.79	21.92	1.02
4.000	1.02	10.000	2.79	16.000	2.79	22.00	1.02
4.083	2.03	10.083	5.08	16.083	2.03	22.08	1.02
4.167	2.03	10.167	5.08	16.167	2.03	22.17	1.02
4.250	2.03	10.250	5.08	16.250	2.03	22.25	1.02
4.333	2.03	10.333	5.08	16.333	2.03	22.33	1.02
4.417	2.03	10.417	5.08	16.417	2.03	22.42	1.02
4.500	2.03	10.500	5.08	16.500	2.03	22.50	1.02
4.583	2.03	10.583	5.08	16.583	2.03	22.58	1.02
4.667	2.03	10.667	5.08	16.667	2.03	22.67	1.02
4.750	2.03	10.750	5.08	16.750	2.03	22.75	1.02
4.833	2.03	10.833	5.08	16.833	2.03	22.83	1.02
4.917	2.03	10.917	5.08	16.917	2.03	22.92	1.02
5.000	2.03	11.000	5.08	17.000	2.03	23.00	1.02
5.083	2.03	11.083	7.11	17.083	2.03	23.08	1.02
5.167	2.03	11.167	7.11	17.167	2.03	23.17	1.02
5.250	2.03	11.250	9.09	17.250	2.03	23.25	1.02
5.333	2.03	11.333	10.41	17.333	2.03	23.33	1.02
5.417	2.03	11.417	13.00	17.417	2.03	23.42	1.02
5.500	2.03	11.500	23.37	17.500	2.03	23.50	1.02
5.583	2.03	11.583	23.37	17.583	2.03	23.58	1.02
5.667	2.03	11.667	45.92	17.667	2.03	23.67	1.02
5.750	2.03	11.750	51.56	17.750	2.03	23.75	1.02
5.833	2.03	11.833	73.91	17.833	2.03	23.83	1.02
5.917	2.03	11.917	107.44	17.917	2.03	23.92	1.02

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            6.000    2.03 |12.000  107.44 |18.000    2.03 | 24.00    1.02

     Max.Eff.Inten.(mm/hr)=     107.44        41.45
               over (min)        5.00        10.00
     Storage Coeff.  (min)=       2.64 (ii)    6.87 (ii)
     Unit Hyd. Tpeak (min)=       5.00        10.00
     Unit Hyd. peak  (cms)=       0.29         0.14
                                                    *TOTALS*
     PEAK FLOW       (cms)=       0.42         0.04          0.457 (iii)
     TIME TO PEAK    (hrs)=      12.00        12.00          12.00
     RUNOFF VOLUME    (mm)=      94.95        30.93          80.23
     TOTAL RAINFALL   (mm)=      95.95        95.95          95.95
     RUNOFF COEFFICIENT   =       0.99         0.32           0.84

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  2012)|   Area    (ha)=   0.23
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.23         0.00
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       0.50         2.00
     Length            (m)=      67.00        40.00
     Mannings n           =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
              0.017     1.02 | 6.017     2.03 |12.017   18.86 | 18.02     2.03
              0.033     1.02 | 6.033     2.03 |12.033   18.80 | 18.03     2.03
              0.050     1.02 | 6.050     2.03 |12.050   18.80 | 18.05     2.03
              0.067     1.02 | 6.067     2.03 |12.067   18.80 | 18.07     2.03
              0.083     1.02 | 6.083     2.03 |12.083   18.80 | 18.08     2.03
              0.100     1.02 | 6.100     2.03 |12.100   18.80 | 18.10     2.03
              0.117     1.02 | 6.117     2.03 |12.117   18.80 | 18.12     2.03
              0.133     1.02 | 6.133     2.03 |12.133   18.80 | 18.13     2.03
              0.150     1.02 | 6.150     2.03 |12.150   18.80 | 18.15     2.03
              0.167     1.02 | 6.167     2.03 |12.167   18.80 | 18.17     2.03
              0.183     1.02 | 6.183     2.03 |12.183   18.80 | 18.18     2.03
              0.200     1.02 | 6.200     2.03 |12.200   18.80 | 18.20     2.03
              0.217     1.02 | 6.217     2.03 |12.217   11.69 | 18.22     2.03
              0.233     1.02 | 6.233     2.03 |12.233   11.68 | 18.23     2.03
              0.250     1.02 | 6.250     2.03 |12.250   11.68 | 18.25     2.03
              0.267     1.02 | 6.267     2.03 |12.267   11.68 | 18.27     2.03
              0.283     1.02 | 6.283     2.03 |12.283   11.68 | 18.28     2.03
              0.300     1.02 | 6.300     2.03 |12.300   11.68 | 18.30     2.03
              0.317     1.02 | 6.317     2.03 |12.317   11.68 | 18.32     2.03
              0.333     1.02 | 6.333     2.03 |12.333   11.68 | 18.33     2.03
              0.350     1.02 | 6.350     2.03 |12.350   11.68 | 18.35     2.03
              0.367     1.02 | 6.367     2.03 |12.367   11.68 | 18.37     2.03
              0.383     1.02 | 6.383     2.03 |12.383   11.68 | 18.38     2.03
              0.400     1.02 | 6.400     2.03 |12.400   11.68 | 18.40     2.03
              0.417     1.02 | 6.417     2.03 |12.417    8.38 | 18.42     2.03
              0.433     1.02 | 6.433     2.03 |12.433    8.38 | 18.43     2.03
              0.450     1.02 | 6.450     2.03 |12.450    8.38 | 18.45     2.03
              0.467     1.02 | 6.467     2.03 |12.467    8.38 | 18.47     2.03
              0.483     1.02 | 6.483     2.03 |12.483    8.38 | 18.48     2.03
              0.500     1.02 | 6.500     2.03 |12.500    8.38 | 18.50     2.03
              0.517     1.02 | 6.517     2.03 |12.517    8.38 | 18.52     2.03
              0.533     1.02 | 6.533     2.03 |12.533    8.38 | 18.53     2.03
              0.550     1.02 | 6.550     2.03 |12.550    8.38 | 18.55     2.03
              0.567     1.02 | 6.567     2.03 |12.567    8.38 | 18.57     2.03
              0.583     1.02 | 6.583     2.03 |12.583    8.38 | 18.58     2.03
              0.600     1.02 | 6.600     2.03 |12.600    8.38 | 18.60     2.03
              0.617     1.02 | 6.617     2.03 |12.617    8.13 | 18.62     2.03
              0.633     1.02 | 6.633     2.03 |12.633    8.13 | 18.63     2.03
              0.650     1.02 | 6.650     2.03 |12.650    8.13 | 18.65     2.03
              0.667     1.02 | 6.667     2.03 |12.667    8.13 | 18.67     2.03
              0.683     1.02 | 6.683     2.03 |12.683    8.13 | 18.68     2.03
              0.700     1.02 | 6.700     2.03 |12.700    8.13 | 18.70     2.03
              0.717     1.02 | 6.717     2.03 |12.717    8.13 | 18.72     2.03
              0.733     1.02 | 6.733     2.03 |12.733    8.13 | 18.73     2.03
              0.750     1.02 | 6.750     2.03 |12.750    8.13 | 18.75     2.03
              0.767     1.02 | 6.767     2.03 |12.767    8.13 | 18.77     2.03
              0.783     1.02 | 6.783     2.03 |12.783    8.13 | 18.78     2.03
              0.800     1.02 | 6.800     2.03 |12.800    8.13 | 18.80     2.03
              0.817     1.02 | 6.817     2.03 |12.817    5.59 | 18.82     2.03
              0.833     1.02 | 6.833     2.03 |12.833    5.59 | 18.83     2.03
              0.850     1.02 | 6.850     2.03 |12.850    5.59 | 18.85     2.03
              0.867     1.02 | 6.867     2.03 |12.867    5.59 | 18.87     2.03
              0.883     1.02 | 6.883     2.03 |12.883    5.59 | 18.88     2.03
              0.900     1.02 | 6.900     2.03 |12.900    5.59 | 18.90     2.03
              0.917     1.02 | 6.917     2.03 |12.917    5.59 | 18.92     2.03
              0.933     1.02 | 6.933     2.03 |12.933    5.59 | 18.93     2.03
              0.950     1.02 | 6.950     2.03 |12.950    5.59 | 18.95     2.03
              0.967     1.02 | 6.967     2.03 |12.967    5.59 | 18.97     2.03
              0.983     1.02 | 6.983     2.03 |12.983    5.59 | 18.98     2.03
```

1.000	1.02	7.000	2.03	13.000	5.59	19.00	2.03
1.017	1.02	7.017	2.03	13.017	4.83	19.02	1.52
1.033	1.02	7.033	2.03	13.033	4.83	19.03	1.52
1.050	1.02	7.050	2.03	13.050	4.83	19.05	1.52
1.067	1.02	7.067	2.03	13.067	4.83	19.07	1.52
1.083	1.02	7.083	2.03	13.083	4.83	19.08	1.52
1.100	1.02	7.100	2.03	13.100	4.83	19.10	1.52
1.117	1.02	7.117	2.03	13.117	4.83	19.12	1.52
1.133	1.02	7.133	2.03	13.133	4.83	19.13	1.52
1.150	1.02	7.150	2.03	13.150	4.83	19.15	1.52
1.167	1.02	7.167	2.03	13.167	4.83	19.17	1.52
1.183	1.02	7.183	2.03	13.183	4.83	19.18	1.52
1.200	1.02	7.200	2.03	13.200	4.83	19.20	1.52
1.217	1.02	7.217	2.03	13.217	4.83	19.22	1.52
1.233	1.02	7.233	2.03	13.233	4.83	19.23	1.52
1.250	1.02	7.250	2.03	13.250	4.83	19.25	1.52
1.267	1.02	7.267	2.03	13.267	4.83	19.27	1.52
1.283	1.02	7.283	2.03	13.283	4.83	19.28	1.52
1.300	1.02	7.300	2.03	13.300	4.83	19.30	1.52
1.317	1.02	7.317	2.03	13.317	4.83	19.32	1.52
1.333	1.02	7.333	2.03	13.333	4.83	19.33	1.52
1.350	1.02	7.350	2.03	13.350	4.83	19.35	1.52
1.367	1.02	7.367	2.03	13.367	4.83	19.37	1.52
1.383	1.02	7.383	2.03	13.383	4.83	19.38	1.52
1.400	1.02	7.400	2.03	13.400	4.83	19.40	1.52
1.417	1.02	7.417	2.03	13.417	4.83	19.42	1.52
1.433	1.02	7.433	2.03	13.433	4.83	19.43	1.52
1.450	1.02	7.450	2.03	13.450	4.83	19.45	1.52
1.467	1.02	7.467	2.03	13.467	4.83	19.47	1.52
1.483	1.02	7.483	2.03	13.483	4.83	19.48	1.52
1.500	1.02	7.500	2.03	13.500	4.83	19.50	1.52
1.517	1.02	7.517	2.03	13.517	4.83	19.52	1.52
1.533	1.02	7.533	2.03	13.533	4.83	19.53	1.52
1.550	1.02	7.550	2.03	13.550	4.83	19.55	1.52
1.567	1.02	7.567	2.03	13.567	4.83	19.57	1.52
1.583	1.02	7.583	2.03	13.583	4.83	19.58	1.52
1.600	1.02	7.600	2.03	13.600	4.83	19.60	1.52
1.617	1.02	7.617	2.03	13.617	4.83	19.62	1.52
1.633	1.02	7.633	2.03	13.633	4.83	19.63	1.52
1.650	1.02	7.650	2.03	13.650	4.83	19.65	1.52
1.667	1.02	7.667	2.03	13.667	4.83	19.67	1.52
1.683	1.02	7.683	2.03	13.683	4.83	19.68	1.52
1.700	1.02	7.700	2.03	13.700	4.83	19.70	1.52
1.717	1.02	7.717	2.03	13.717	4.83	19.72	1.52
1.733	1.02	7.733	2.03	13.733	4.83	19.73	1.52
1.750	1.02	7.750	2.03	13.750	4.83	19.75	1.52
1.767	1.02	7.767	2.03	13.767	4.83	19.77	1.52
1.783	1.02	7.783	2.03	13.783	4.83	19.78	1.52
1.800	1.02	7.800	2.03	13.800	4.83	19.80	1.52
1.817	1.02	7.817	2.03	13.817	4.83	19.82	1.52
1.833	1.02	7.833	2.03	13.833	4.83	19.83	1.52
1.850	1.02	7.850	2.03	13.850	4.83	19.85	1.52
1.867	1.02	7.867	2.03	13.867	4.83	19.87	1.52
1.883	1.02	7.883	2.03	13.883	4.83	19.88	1.52
1.900	1.02	7.900	2.03	13.900	4.83	19.90	1.52
1.917	1.02	7.917	2.03	13.917	4.83	19.92	1.52
1.933	1.02	7.933	2.03	13.933	4.83	19.93	1.52
1.950	1.02	7.950	2.03	13.950	4.83	19.95	1.52
1.967	1.02	7.967	2.03	13.967	4.83	19.97	1.52
1.983	1.02	7.983	2.03	13.983	4.83	19.98	1.52
2.000	1.02	8.000	2.03	14.000	4.83	20.00	1.52
2.017	1.02	8.017	2.79	14.017	2.80	20.02	1.52
2.033	1.02	8.033	2.79	14.033	2.79	20.03	1.52
2.050	1.02	8.050	2.79	14.050	2.79	20.05	1.52
2.067	1.02	8.067	2.79	14.067	2.79	20.07	1.52
2.083	1.02	8.083	2.79	14.083	2.79	20.08	1.52
2.100	1.02	8.100	2.79	14.100	2.79	20.10	1.52
2.117	1.02	8.117	2.79	14.117	2.79	20.12	1.52
2.133	1.02	8.133	2.79	14.133	2.79	20.13	1.52
2.150	1.02	8.150	2.79	14.150	2.79	20.15	1.52
2.167	1.02	8.167	2.79	14.167	2.79	20.17	1.52
2.183	1.02	8.183	2.79	14.183	2.79	20.18	1.52
2.200	1.02	8.200	2.79	14.200	2.79	20.20	1.52
2.217	1.02	8.217	2.79	14.217	2.79	20.22	1.52
2.233	1.02	8.233	2.79	14.233	2.79	20.23	1.52
2.250	1.02	8.250	2.79	14.250	2.79	20.25	1.52
2.267	1.02	8.267	2.79	14.267	2.79	20.27	1.52
2.283	1.02	8.283	2.79	14.283	2.79	20.28	1.52
2.300	1.02	8.300	2.79	14.300	2.79	20.30	1.52
2.317	1.02	8.317	2.79	14.317	2.79	20.32	1.52
2.333	1.02	8.333	2.79	14.333	2.79	20.33	1.52
2.350	1.02	8.350	2.79	14.350	2.79	20.35	1.52
2.367	1.02	8.367	2.79	14.367	2.79	20.37	1.52
2.383	1.02	8.383	2.79	14.383	2.79	20.38	1.52
2.400	1.02	8.400	2.79	14.400	2.79	20.40	1.52
2.417	1.02	8.417	2.79	14.417	2.79	20.42	1.52
2.433	1.02	8.433	2.79	14.433	2.79	20.43	1.52
2.450	1.02	8.450	2.79	14.450	2.79	20.45	1.52
2.467	1.02	8.467	2.79	14.467	2.79	20.47	1.52
2.483	1.02	8.483	2.79	14.483	2.79	20.48	1.52
2.500	1.02	8.500	2.79	14.500	2.79	20.50	1.52
2.517	1.02	8.517	2.79	14.517	2.79	20.52	1.52
2.533	1.02	8.533	2.79	14.533	2.79	20.53	1.52
2.550	1.02	8.550	2.79	14.550	2.79	20.55	1.52
2.567	1.02	8.567	2.79	14.567	2.79	20.57	1.52
2.583	1.02	8.583	2.79	14.583	2.79	20.58	1.52
2.600	1.02	8.600	2.79	14.600	2.79	20.60	1.52
2.617	1.02	8.617	2.79	14.617	2.79	20.62	1.52
2.633	1.02	8.633	2.79	14.633	2.79	20.63	1.52
2.650	1.02	8.650	2.79	14.650	2.79	20.65	1.52

2.667	1.02	8.667	2.79	14.667	2.79	20.67	1.52
2.683	1.02	8.683	2.79	14.683	2.79	20.68	1.52
2.700	1.02	8.700	2.79	14.700	2.79	20.70	1.52
2.717	1.02	8.717	2.79	14.717	2.79	20.72	1.52
2.733	1.02	8.733	2.79	14.733	2.79	20.73	1.52
2.750	1.02	8.750	2.79	14.750	2.79	20.75	1.52
2.767	1.02	8.767	2.79	14.767	2.79	20.77	1.52
2.783	1.02	8.783	2.79	14.783	2.79	20.78	1.52
2.800	1.02	8.800	2.79	14.800	2.79	20.80	1.52
2.817	1.02	8.817	2.79	14.817	2.79	20.82	1.52
2.833	1.02	8.833	2.79	14.833	2.79	20.83	1.52
2.850	1.02	8.850	2.79	14.850	2.79	20.85	1.52
2.867	1.02	8.867	2.79	14.867	2.79	20.87	1.52
2.883	1.02	8.883	2.79	14.883	2.79	20.88	1.52
2.900	1.02	8.900	2.79	14.900	2.79	20.90	1.52
2.917	1.02	8.917	2.79	14.917	2.79	20.92	1.52
2.933	1.02	8.933	2.79	14.933	2.79	20.93	1.52
2.950	1.02	8.950	2.79	14.950	2.79	20.95	1.52
2.967	1.02	8.967	2.79	14.967	2.79	20.97	1.52
2.983	1.02	8.983	2.79	14.983	2.79	20.98	1.52
3.000	1.02	9.000	2.79	15.000	2.79	21.00	1.52
3.017	1.02	9.017	2.79	15.017	2.79	21.02	1.02
3.033	1.02	9.033	2.79	15.033	2.79	21.03	1.02
3.050	1.02	9.050	2.79	15.050	2.79	21.05	1.02
3.067	1.02	9.067	2.79	15.067	2.79	21.07	1.02
3.083	1.02	9.083	2.79	15.083	2.79	21.08	1.02
3.100	1.02	9.100	2.79	15.100	2.79	21.10	1.02
3.117	1.02	9.117	2.79	15.117	2.79	21.12	1.02
3.133	1.02	9.133	2.79	15.133	2.79	21.13	1.02
3.150	1.02	9.150	2.79	15.150	2.79	21.15	1.02
3.167	1.02	9.167	2.79	15.167	2.79	21.17	1.02
3.183	1.02	9.183	2.79	15.183	2.79	21.18	1.02
3.200	1.02	9.200	2.79	15.200	2.79	21.20	1.02
3.217	1.02	9.217	2.79	15.217	2.79	21.22	1.02
3.233	1.02	9.233	2.79	15.233	2.79	21.23	1.02
3.250	1.02	9.250	2.79	15.250	2.79	21.25	1.02
3.267	1.02	9.267	2.79	15.267	2.79	21.27	1.02
3.283	1.02	9.283	2.79	15.283	2.79	21.28	1.02
3.300	1.02	9.300	2.79	15.300	2.79	21.30	1.02
3.317	1.02	9.317	2.79	15.317	2.79	21.32	1.02
3.333	1.02	9.333	2.79	15.333	2.79	21.33	1.02
3.350	1.02	9.350	2.79	15.350	2.79	21.35	1.02
3.367	1.02	9.367	2.79	15.367	2.79	21.37	1.02
3.383	1.02	9.383	2.79	15.383	2.79	21.38	1.02
3.400	1.02	9.400	2.79	15.400	2.79	21.40	1.02
3.417	1.02	9.417	2.79	15.417	2.79	21.42	1.02
3.433	1.02	9.433	2.79	15.433	2.79	21.43	1.02
3.450	1.02	9.450	2.79	15.450	2.79	21.45	1.02
3.467	1.02	9.467	2.79	15.467	2.79	21.47	1.02
3.483	1.02	9.483	2.79	15.483	2.79	21.48	1.02
3.500	1.02	9.500	2.79	15.500	2.79	21.50	1.02
3.517	1.02	9.517	2.79	15.517	2.79	21.52	1.02
3.533	1.02	9.533	2.79	15.533	2.79	21.53	1.02
3.550	1.02	9.550	2.79	15.550	2.79	21.55	1.02
3.567	1.02	9.567	2.79	15.567	2.79	21.57	1.02
3.583	1.02	9.583	2.79	15.583	2.79	21.58	1.02
3.600	1.02	9.600	2.79	15.600	2.79	21.60	1.02
3.617	1.02	9.617	2.79	15.617	2.79	21.62	1.02
3.633	1.02	9.633	2.79	15.633	2.79	21.63	1.02
3.650	1.02	9.650	2.79	15.650	2.79	21.65	1.02
3.667	1.02	9.667	2.79	15.667	2.79	21.67	1.02
3.683	1.02	9.683	2.79	15.683	2.79	21.68	1.02
3.700	1.02	9.700	2.79	15.700	2.79	21.70	1.02
3.717	1.02	9.717	2.79	15.717	2.79	21.72	1.02
3.733	1.02	9.733	2.79	15.733	2.79	21.73	1.02
3.750	1.02	9.750	2.79	15.750	2.79	21.75	1.02
3.767	1.02	9.767	2.79	15.767	2.79	21.77	1.02
3.783	1.02	9.783	2.79	15.783	2.79	21.78	1.02
3.800	1.02	9.800	2.79	15.800	2.79	21.80	1.02
3.817	1.02	9.817	2.79	15.817	2.79	21.82	1.02
3.833	1.02	9.833	2.79	15.833	2.79	21.83	1.02
3.850	1.02	9.850	2.79	15.850	2.79	21.85	1.02
3.867	1.02	9.867	2.79	15.867	2.79	21.87	1.02
3.883	1.02	9.883	2.79	15.883	2.79	21.88	1.02
3.900	1.02	9.900	2.79	15.900	2.79	21.90	1.02
3.917	1.02	9.917	2.79	15.917	2.79	21.92	1.02
3.933	1.02	9.933	2.79	15.933	2.79	21.93	1.02
3.950	1.02	9.950	2.79	15.950	2.79	21.95	1.02
3.967	1.02	9.967	2.79	15.967	2.79	21.97	1.02
3.983	1.02	9.983	2.79	15.983	2.79	21.98	1.02
4.000	1.02	10.000	2.79	16.000	2.79	22.00	1.02
4.017	2.03	10.017	5.08	16.017	2.03	22.02	1.02
4.033	2.03	10.033	5.08	16.033	2.03	22.03	1.02
4.050	2.03	10.050	5.08	16.050	2.03	22.05	1.02
4.067	2.03	10.067	5.08	16.067	2.03	22.07	1.02
4.083	2.03	10.083	5.08	16.083	2.03	22.08	1.02
4.100	2.03	10.100	5.08	16.100	2.03	22.10	1.02
4.117	2.03	10.117	5.08	16.117	2.03	22.12	1.02
4.133	2.03	10.133	5.08	16.133	2.03	22.13	1.02
4.150	2.03	10.150	5.08	16.150	2.03	22.15	1.02
4.167	2.03	10.167	5.08	16.167	2.03	22.17	1.02
4.183	2.03	10.183	5.08	16.183	2.03	22.18	1.02
4.200	2.03	10.200	5.08	16.200	2.03	22.20	1.02
4.217	2.03	10.217	5.08	16.217	2.03	22.22	1.02
4.233	2.03	10.233	5.08	16.233	2.03	22.23	1.02
4.250	2.03	10.250	5.08	16.250	2.03	22.25	1.02
4.267	2.03	10.267	5.08	16.267	2.03	22.27	1.02
4.283	2.03	10.283	5.08	16.283	2.03	22.28	1.02
4.300	2.03	10.300	5.08	16.300	2.03	22.30	1.02
4.317	2.03	10.317	5.08	16.317	2.03	22.32	1.02

4.333	2.03	10.333	5.08	16.333	2.03	22.33	1.02
4.350	2.03	10.350	5.08	16.350	2.03	22.35	1.02
4.367	2.03	10.367	5.08	16.367	2.03	22.37	1.02
4.383	2.03	10.383	5.08	16.383	2.03	22.38	1.02
4.400	2.03	10.400	5.08	16.400	2.03	22.40	1.02
4.417	2.03	10.417	5.08	16.417	2.03	22.42	1.02
4.433	2.03	10.433	5.08	16.433	2.03	22.43	1.02
4.450	2.03	10.450	5.08	16.450	2.03	22.45	1.02
4.467	2.03	10.467	5.08	16.467	2.03	22.47	1.02
4.483	2.03	10.483	5.08	16.483	2.03	22.48	1.02
4.500	2.03	10.500	5.08	16.500	2.03	22.50	1.02
4.517	2.03	10.517	5.08	16.517	2.03	22.52	1.02
4.533	2.03	10.533	5.08	16.533	2.03	22.53	1.02
4.550	2.03	10.550	5.08	16.550	2.03	22.55	1.02
4.567	2.03	10.567	5.08	16.567	2.03	22.57	1.02
4.583	2.03	10.583	5.08	16.583	2.03	22.58	1.02
4.600	2.03	10.600	5.08	16.600	2.03	22.60	1.02
4.617	2.03	10.617	5.08	16.617	2.03	22.62	1.02
4.633	2.03	10.633	5.08	16.633	2.03	22.63	1.02
4.650	2.03	10.650	5.08	16.650	2.03	22.65	1.02
4.667	2.03	10.667	5.08	16.667	2.03	22.67	1.02
4.683	2.03	10.683	5.08	16.683	2.03	22.68	1.02
4.700	2.03	10.700	5.08	16.700	2.03	22.70	1.02
4.717	2.03	10.717	5.08	16.717	2.03	22.72	1.02
4.733	2.03	10.733	5.08	16.733	2.03	22.73	1.02
4.750	2.03	10.750	5.08	16.750	2.03	22.75	1.02
4.767	2.03	10.767	5.08	16.767	2.03	22.77	1.02
4.783	2.03	10.783	5.08	16.783	2.03	22.78	1.02
4.800	2.03	10.800	5.08	16.800	2.03	22.80	1.02
4.817	2.03	10.817	5.08	16.817	2.03	22.82	1.02
4.833	2.03	10.833	5.08	16.833	2.03	22.83	1.02
4.850	2.03	10.850	5.08	16.850	2.03	22.85	1.02
4.867	2.03	10.867	5.08	16.867	2.03	22.87	1.02
4.883	2.03	10.883	5.08	16.883	2.03	22.88	1.02
4.900	2.03	10.900	5.08	16.900	2.03	22.90	1.02
4.917	2.03	10.917	5.08	16.917	2.03	22.92	1.02
4.933	2.03	10.933	5.08	16.933	2.03	22.93	1.02
4.950	2.03	10.950	5.08	16.950	2.03	22.95	1.02
4.967	2.03	10.967	5.08	16.967	2.03	22.97	1.02
4.983	2.03	10.983	5.08	16.983	2.03	22.98	1.02
5.000	2.03	11.000	5.08	17.000	2.03	23.00	1.02
5.017	2.03	11.017	7.11	17.017	2.03	23.02	1.02
5.033	2.03	11.033	7.11	17.033	2.03	23.03	1.02
5.050	2.03	11.050	7.11	17.050	2.03	23.05	1.02
5.067	2.03	11.067	7.11	17.067	2.03	23.07	1.02
5.083	2.03	11.083	7.11	17.083	2.03	23.08	1.02
5.100	2.03	11.100	7.11	17.100	2.03	23.10	1.02
5.117	2.03	11.117	7.11	17.117	2.03	23.12	1.02
5.133	2.03	11.133	7.11	17.133	2.03	23.13	1.02
5.150	2.03	11.150	7.11	17.150	2.03	23.15	1.02
5.167	2.03	11.167	7.11	17.167	2.03	23.17	1.02
5.183	2.03	11.183	7.11	17.183	2.03	23.18	1.02
5.200	2.03	11.200	7.11	17.200	2.03	23.20	1.02
5.217	2.03	11.217	10.41	17.217	2.03	23.22	1.02
5.233	2.03	11.233	10.41	17.233	2.03	23.23	1.02
5.250	2.03	11.250	10.41	17.250	2.03	23.25	1.02
5.267	2.03	11.267	10.41	17.267	2.03	23.27	1.02
5.283	2.03	11.283	10.41	17.283	2.03	23.28	1.02
5.300	2.03	11.300	10.41	17.300	2.03	23.30	1.02
5.317	2.03	11.317	10.41	17.317	2.03	23.32	1.02
5.333	2.03	11.333	10.41	17.333	2.03	23.33	1.02
5.350	2.03	11.350	10.41	17.350	2.03	23.35	1.02
5.367	2.03	11.367	10.41	17.367	2.03	23.37	1.02
5.383	2.03	11.383	10.41	17.383	2.03	23.38	1.02
5.400	2.03	11.400	10.41	17.400	2.03	23.40	1.02
5.417	2.03	11.417	23.37	17.417	2.03	23.42	1.02
5.433	2.03	11.433	23.37	17.433	2.03	23.43	1.02
5.450	2.03	11.450	23.37	17.450	2.03	23.45	1.02
5.467	2.03	11.467	23.37	17.467	2.03	23.47	1.02
5.483	2.03	11.483	23.37	17.483	2.03	23.48	1.02
5.500	2.03	11.500	23.37	17.500	2.03	23.50	1.02
5.517	2.03	11.517	23.37	17.517	2.03	23.52	1.02
5.533	2.03	11.533	23.37	17.533	2.03	23.53	1.02
5.550	2.03	11.550	23.37	17.550	2.03	23.55	1.02
5.567	2.03	11.567	23.37	17.567	2.03	23.57	1.02
5.583	2.03	11.583	23.37	17.583	2.03	23.58	1.02
5.600	2.03	11.600	23.37	17.600	2.03	23.60	1.02
5.617	2.03	11.617	51.55	17.617	2.03	23.62	1.02
5.633	2.03	11.633	51.56	17.633	2.03	23.63	1.02
5.650	2.03	11.650	51.56	17.650	2.03	23.65	1.02
5.667	2.03	11.667	51.56	17.667	2.03	23.67	1.02
5.683	2.03	11.683	51.56	17.683	2.03	23.68	1.02
5.700	2.03	11.700	51.56	17.700	2.03	23.70	1.02
5.717	2.03	11.717	51.56	17.717	2.03	23.72	1.02
5.733	2.03	11.733	51.56	17.733	2.03	23.73	1.02
5.750	2.03	11.750	51.56	17.750	2.03	23.75	1.02
5.767	2.03	11.767	51.56	17.767	2.03	23.77	1.02
5.783	2.03	11.783	51.56	17.783	2.03	23.78	1.02
5.800	2.03	11.800	51.56	17.800	2.03	23.80	1.02
5.817	2.03	11.817	107.41	17.817	2.03	23.82	1.02
5.833	2.03	11.833	107.44	17.833	2.03	23.83	1.02
5.850	2.03	11.850	107.44	17.850	2.03	23.85	1.02
5.867	2.03	11.867	107.44	17.867	2.03	23.87	1.02
5.883	2.03	11.883	107.44	17.883	2.03	23.88	1.02
5.900	2.03	11.900	107.44	17.900	2.03	23.90	1.02
5.917	2.03	11.917	107.44	17.917	2.03	23.92	1.02
5.933	2.03	11.933	107.44	17.933	2.03	23.93	1.02
5.950	2.03	11.950	107.44	17.950	2.03	23.95	1.02
5.967	2.03	11.967	107.44	17.967	2.03	23.97	1.02
5.983	2.03	11.983	107.44	17.983	2.03	23.98	1.02

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             6.000    2.03 |12.000  107.44 |18.000    2.03 | 24.00    1.02

     Max.Eff.Inten.(mm/hr)=     107.44        41.45
               over (min)        5.00         4.00
     Storage Coeff.  (min)=      2.40 (ii)    3.49 (ii)
     Unit Hyd. Tpeak (min)=      5.00         4.00
     Unit Hyd. peak  (cms)=      0.34         0.31
                                                      *TOTALS*
     PEAK FLOW       (cms)=      0.07         0.00          0.067 (iii)
     TIME TO PEAK    (hrs)=     12.00        12.00          12.00
     RUNOFF VOLUME    (mm)=     94.95        30.93          94.31
     TOTAL RAINFALL   (mm)=     95.95        95.95          95.95
     RUNOFF COEFFICIENT   =      0.99         0.32           0.98


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| RESERVOIR(  0101)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0380      0.0061
                          0.0190     0.0030   |   0.0570      0.0091

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2012)      0.229      0.067     12.00      94.31
   OUTFLOW: ID= 1 (  0101)      0.229      0.033     12.08      94.14

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 49.41
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0053

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  2014)|   Area    (ha)=   0.15
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.15         0.00
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope     (%)=       0.50         2.00

Length            (m)=      31.44        40.00
Mannings n           =      0.013        0.250

    NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
         0.017    1.02 | 6.017    2.03 |12.017   18.86 | 18.02    2.03
         0.033    1.02 | 6.033    2.03 |12.033   18.80 | 18.03    2.03
         0.050    1.02 | 6.050    2.03 |12.050   18.80 | 18.05    2.03
         0.067    1.02 | 6.067    2.03 |12.067   18.80 | 18.07    2.03
         0.083    1.02 | 6.083    2.03 |12.083   18.80 | 18.08    2.03
         0.100    1.02 | 6.100    2.03 |12.100   18.80 | 18.10    2.03
         0.117    1.02 | 6.117    2.03 |12.117   18.80 | 18.12    2.03
         0.133    1.02 | 6.133    2.03 |12.133   18.80 | 18.13    2.03
         0.150    1.02 | 6.150    2.03 |12.150   18.80 | 18.15    2.03
         0.167    1.02 | 6.167    2.03 |12.167   18.80 | 18.17    2.03
         0.183    1.02 | 6.183    2.03 |12.183   18.80 | 18.18    2.03
         0.200    1.02 | 6.200    2.03 |12.200   18.80 | 18.20    2.03
         0.217    1.02 | 6.217    2.03 |12.217   11.69 | 18.22    2.03
         0.233    1.02 | 6.233    2.03 |12.233   11.68 | 18.23    2.03
         0.250    1.02 | 6.250    2.03 |12.250   11.68 | 18.25    2.03
         0.267    1.02 | 6.267    2.03 |12.267   11.68 | 18.27    2.03
         0.283    1.02 | 6.283    2.03 |12.283   11.68 | 18.28    2.03
         0.300    1.02 | 6.300    2.03 |12.300   11.68 | 18.30    2.03
         0.317    1.02 | 6.317    2.03 |12.317   11.68 | 18.32    2.03
         0.333    1.02 | 6.333    2.03 |12.333   11.68 | 18.33    2.03
         0.350    1.02 | 6.350    2.03 |12.350   11.68 | 18.35    2.03
         0.367    1.02 | 6.367    2.03 |12.367   11.68 | 18.37    2.03
         0.383    1.02 | 6.383    2.03 |12.383   11.68 | 18.38    2.03
         0.400    1.02 | 6.400    2.03 |12.400   11.68 | 18.40    2.03
         0.417    1.02 | 6.417    2.03 |12.417    8.38 | 18.42    2.03
         0.433    1.02 | 6.433    2.03 |12.433    8.38 | 18.43    2.03
         0.450    1.02 | 6.450    2.03 |12.450    8.38 | 18.45    2.03
         0.467    1.02 | 6.467    2.03 |12.467    8.38 | 18.47    2.03
         0.483    1.02 | 6.483    2.03 |12.483    8.38 | 18.48    2.03
         0.500    1.02 | 6.500    2.03 |12.500    8.38 | 18.50    2.03
         0.517    1.02 | 6.517    2.03 |12.517    8.38 | 18.52    2.03
         0.533    1.02 | 6.533    2.03 |12.533    8.38 | 18.53    2.03
         0.550    1.02 | 6.550    2.03 |12.550    8.38 | 18.55    2.03
         0.567    1.02 | 6.567    2.03 |12.567    8.38 | 18.57    2.03
         0.583    1.02 | 6.583    2.03 |12.583    8.38 | 18.58    2.03
         0.600    1.02 | 6.600    2.03 |12.600    8.38 | 18.60    2.03
         0.617    1.02 | 6.617    2.03 |12.617    8.13 | 18.62    2.03
         0.633    1.02 | 6.633    2.03 |12.633    8.13 | 18.63    2.03
         0.650    1.02 | 6.650    2.03 |12.650    8.13 | 18.65    2.03
         0.667    1.02 | 6.667    2.03 |12.667    8.13 | 18.67    2.03
         0.683    1.02 | 6.683    2.03 |12.683    8.13 | 18.68    2.03
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0.700	1.02	6.700	2.03	12.700	8.13	18.70	2.03
0.717	1.02	6.717	2.03	12.717	8.13	18.72	2.03
0.733	1.02	6.733	2.03	12.733	8.13	18.73	2.03
0.750	1.02	6.750	2.03	12.750	8.13	18.75	2.03
0.767	1.02	6.767	2.03	12.767	8.13	18.77	2.03
0.783	1.02	6.783	2.03	12.783	8.13	18.78	2.03
0.800	1.02	6.800	2.03	12.800	8.13	18.80	2.03
0.817	1.02	6.817	2.03	12.817	5.59	18.82	2.03
0.833	1.02	6.833	2.03	12.833	5.59	18.83	2.03
0.850	1.02	6.850	2.03	12.850	5.59	18.85	2.03
0.867	1.02	6.867	2.03	12.867	5.59	18.87	2.03
0.883	1.02	6.883	2.03	12.883	5.59	18.88	2.03
0.900	1.02	6.900	2.03	12.900	5.59	18.90	2.03
0.917	1.02	6.917	2.03	12.917	5.59	18.92	2.03
0.933	1.02	6.933	2.03	12.933	5.59	18.93	2.03
0.950	1.02	6.950	2.03	12.950	5.59	18.95	2.03
0.967	1.02	6.967	2.03	12.967	5.59	18.97	2.03
0.983	1.02	6.983	2.03	12.983	5.59	18.98	2.03
1.000	1.02	7.000	2.03	13.000	5.59	19.00	2.03
1.017	1.02	7.017	2.03	13.017	4.83	19.02	1.52
1.033	1.02	7.033	2.03	13.033	4.83	19.03	1.52
1.050	1.02	7.050	2.03	13.050	4.83	19.05	1.52
1.067	1.02	7.067	2.03	13.067	4.83	19.07	1.52
1.083	1.02	7.083	2.03	13.083	4.83	19.08	1.52
1.100	1.02	7.100	2.03	13.100	4.83	19.10	1.52
1.117	1.02	7.117	2.03	13.117	4.83	19.12	1.52
1.133	1.02	7.133	2.03	13.133	4.83	19.13	1.52
1.150	1.02	7.150	2.03	13.150	4.83	19.15	1.52
1.167	1.02	7.167	2.03	13.167	4.83	19.17	1.52
1.183	1.02	7.183	2.03	13.183	4.83	19.18	1.52
1.200	1.02	7.200	2.03	13.200	4.83	19.20	1.52
1.217	1.02	7.217	2.03	13.217	4.83	19.22	1.52
1.233	1.02	7.233	2.03	13.233	4.83	19.23	1.52
1.250	1.02	7.250	2.03	13.250	4.83	19.25	1.52
1.267	1.02	7.267	2.03	13.267	4.83	19.27	1.52
1.283	1.02	7.283	2.03	13.283	4.83	19.28	1.52
1.300	1.02	7.300	2.03	13.300	4.83	19.30	1.52
1.317	1.02	7.317	2.03	13.317	4.83	19.32	1.52
1.333	1.02	7.333	2.03	13.333	4.83	19.33	1.52
1.350	1.02	7.350	2.03	13.350	4.83	19.35	1.52
1.367	1.02	7.367	2.03	13.367	4.83	19.37	1.52
1.383	1.02	7.383	2.03	13.383	4.83	19.38	1.52
1.400	1.02	7.400	2.03	13.400	4.83	19.40	1.52
1.417	1.02	7.417	2.03	13.417	4.83	19.42	1.52
1.433	1.02	7.433	2.03	13.433	4.83	19.43	1.52
1.450	1.02	7.450	2.03	13.450	4.83	19.45	1.52
1.467	1.02	7.467	2.03	13.467	4.83	19.47	1.52
1.483	1.02	7.483	2.03	13.483	4.83	19.48	1.52
1.500	1.02	7.500	2.03	13.500	4.83	19.50	1.52
1.517	1.02	7.517	2.03	13.517	4.83	19.52	1.52
1.533	1.02	7.533	2.03	13.533	4.83	19.53	1.52
1.550	1.02	7.550	2.03	13.550	4.83	19.55	1.52
1.567	1.02	7.567	2.03	13.567	4.83	19.57	1.52
1.583	1.02	7.583	2.03	13.583	4.83	19.58	1.52
1.600	1.02	7.600	2.03	13.600	4.83	19.60	1.52
1.617	1.02	7.617	2.03	13.617	4.83	19.62	1.52
1.633	1.02	7.633	2.03	13.633	4.83	19.63	1.52
1.650	1.02	7.650	2.03	13.650	4.83	19.65	1.52
1.667	1.02	7.667	2.03	13.667	4.83	19.67	1.52
1.683	1.02	7.683	2.03	13.683	4.83	19.68	1.52
1.700	1.02	7.700	2.03	13.700	4.83	19.70	1.52
1.717	1.02	7.717	2.03	13.717	4.83	19.72	1.52
1.733	1.02	7.733	2.03	13.733	4.83	19.73	1.52
1.750	1.02	7.750	2.03	13.750	4.83	19.75	1.52
1.767	1.02	7.767	2.03	13.767	4.83	19.77	1.52
1.783	1.02	7.783	2.03	13.783	4.83	19.78	1.52
1.800	1.02	7.800	2.03	13.800	4.83	19.80	1.52
1.817	1.02	7.817	2.03	13.817	4.83	19.82	1.52
1.833	1.02	7.833	2.03	13.833	4.83	19.83	1.52
1.850	1.02	7.850	2.03	13.850	4.83	19.85	1.52
1.867	1.02	7.867	2.03	13.867	4.83	19.87	1.52
1.883	1.02	7.883	2.03	13.883	4.83	19.88	1.52
1.900	1.02	7.900	2.03	13.900	4.83	19.90	1.52
1.917	1.02	7.917	2.03	13.917	4.83	19.92	1.52
1.933	1.02	7.933	2.03	13.933	4.83	19.93	1.52
1.950	1.02	7.950	2.03	13.950	4.83	19.95	1.52
1.967	1.02	7.967	2.03	13.967	4.83	19.97	1.52
1.983	1.02	7.983	2.03	13.983	4.83	19.98	1.52
2.000	1.02	8.000	2.03	14.000	4.83	20.00	1.52
2.017	1.02	8.017	2.79	14.017	2.80	20.02	1.52
2.033	1.02	8.033	2.79	14.033	2.79	20.03	1.52
2.050	1.02	8.050	2.79	14.050	2.79	20.05	1.52
2.067	1.02	8.067	2.79	14.067	2.79	20.07	1.52
2.083	1.02	8.083	2.79	14.083	2.79	20.08	1.52
2.100	1.02	8.100	2.79	14.100	2.79	20.10	1.52
2.117	1.02	8.117	2.79	14.117	2.79	20.12	1.52
2.133	1.02	8.133	2.79	14.133	2.79	20.13	1.52
2.150	1.02	8.150	2.79	14.150	2.79	20.15	1.52
2.167	1.02	8.167	2.79	14.167	2.79	20.17	1.52
2.183	1.02	8.183	2.79	14.183	2.79	20.18	1.52
2.200	1.02	8.200	2.79	14.200	2.79	20.20	1.52
2.217	1.02	8.217	2.79	14.217	2.79	20.22	1.52
2.233	1.02	8.233	2.79	14.233	2.79	20.23	1.52
2.250	1.02	8.250	2.79	14.250	2.79	20.25	1.52
2.267	1.02	8.267	2.79	14.267	2.79	20.27	1.52
2.283	1.02	8.283	2.79	14.283	2.79	20.28	1.52
2.300	1.02	8.300	2.79	14.300	2.79	20.30	1.52
2.317	1.02	8.317	2.79	14.317	2.79	20.32	1.52
2.333	1.02	8.333	2.79	14.333	2.79	20.33	1.52
2.350	1.02	8.350	2.79	14.350	2.79	20.35	1.52

2.367	1.02	8.367	2.79	14.367	2.79	20.37	1.52
2.383	1.02	8.383	2.79	14.383	2.79	20.38	1.52
2.400	1.02	8.400	2.79	14.400	2.79	20.40	1.52
2.417	1.02	8.417	2.79	14.417	2.79	20.42	1.52
2.433	1.02	8.433	2.79	14.433	2.79	20.43	1.52
2.450	1.02	8.450	2.79	14.450	2.79	20.45	1.52
2.467	1.02	8.467	2.79	14.467	2.79	20.47	1.52
2.483	1.02	8.483	2.79	14.483	2.79	20.48	1.52
2.500	1.02	8.500	2.79	14.500	2.79	20.50	1.52
2.517	1.02	8.517	2.79	14.517	2.79	20.52	1.52
2.533	1.02	8.533	2.79	14.533	2.79	20.53	1.52
2.550	1.02	8.550	2.79	14.550	2.79	20.55	1.52
2.567	1.02	8.567	2.79	14.567	2.79	20.57	1.52
2.583	1.02	8.583	2.79	14.583	2.79	20.58	1.52
2.600	1.02	8.600	2.79	14.600	2.79	20.60	1.52
2.617	1.02	8.617	2.79	14.617	2.79	20.62	1.52
2.633	1.02	8.633	2.79	14.633	2.79	20.63	1.52
2.650	1.02	8.650	2.79	14.650	2.79	20.65	1.52
2.667	1.02	8.667	2.79	14.667	2.79	20.67	1.52
2.683	1.02	8.683	2.79	14.683	2.79	20.68	1.52
2.700	1.02	8.700	2.79	14.700	2.79	20.70	1.52
2.717	1.02	8.717	2.79	14.717	2.79	20.72	1.52
2.733	1.02	8.733	2.79	14.733	2.79	20.73	1.52
2.750	1.02	8.750	2.79	14.750	2.79	20.75	1.52
2.767	1.02	8.767	2.79	14.767	2.79	20.77	1.52
2.783	1.02	8.783	2.79	14.783	2.79	20.78	1.52
2.800	1.02	8.800	2.79	14.800	2.79	20.80	1.52
2.817	1.02	8.817	2.79	14.817	2.79	20.82	1.52
2.833	1.02	8.833	2.79	14.833	2.79	20.83	1.52
2.850	1.02	8.850	2.79	14.850	2.79	20.85	1.52
2.867	1.02	8.867	2.79	14.867	2.79	20.87	1.52
2.883	1.02	8.883	2.79	14.883	2.79	20.88	1.52
2.900	1.02	8.900	2.79	14.900	2.79	20.90	1.52
2.917	1.02	8.917	2.79	14.917	2.79	20.92	1.52
2.933	1.02	8.933	2.79	14.933	2.79	20.93	1.52
2.950	1.02	8.950	2.79	14.950	2.79	20.95	1.52
2.967	1.02	8.967	2.79	14.967	2.79	20.97	1.52
2.983	1.02	8.983	2.79	14.983	2.79	20.98	1.52
3.000	1.02	9.000	2.79	15.000	2.79	21.00	1.52
3.017	1.02	9.017	2.79	15.017	2.79	21.02	1.02
3.033	1.02	9.033	2.79	15.033	2.79	21.03	1.02
3.050	1.02	9.050	2.79	15.050	2.79	21.05	1.02
3.067	1.02	9.067	2.79	15.067	2.79	21.07	1.02
3.083	1.02	9.083	2.79	15.083	2.79	21.08	1.02
3.100	1.02	9.100	2.79	15.100	2.79	21.10	1.02
3.117	1.02	9.117	2.79	15.117	2.79	21.12	1.02
3.133	1.02	9.133	2.79	15.133	2.79	21.13	1.02
3.150	1.02	9.150	2.79	15.150	2.79	21.15	1.02
3.167	1.02	9.167	2.79	15.167	2.79	21.17	1.02
3.183	1.02	9.183	2.79	15.183	2.79	21.18	1.02
3.200	1.02	9.200	2.79	15.200	2.79	21.20	1.02
3.217	1.02	9.217	2.79	15.217	2.79	21.22	1.02
3.233	1.02	9.233	2.79	15.233	2.79	21.23	1.02
3.250	1.02	9.250	2.79	15.250	2.79	21.25	1.02
3.267	1.02	9.267	2.79	15.267	2.79	21.27	1.02
3.283	1.02	9.283	2.79	15.283	2.79	21.28	1.02
3.300	1.02	9.300	2.79	15.300	2.79	21.30	1.02
3.317	1.02	9.317	2.79	15.317	2.79	21.32	1.02
3.333	1.02	9.333	2.79	15.333	2.79	21.33	1.02
3.350	1.02	9.350	2.79	15.350	2.79	21.35	1.02
3.367	1.02	9.367	2.79	15.367	2.79	21.37	1.02
3.383	1.02	9.383	2.79	15.383	2.79	21.38	1.02
3.400	1.02	9.400	2.79	15.400	2.79	21.40	1.02
3.417	1.02	9.417	2.79	15.417	2.79	21.42	1.02
3.433	1.02	9.433	2.79	15.433	2.79	21.43	1.02
3.450	1.02	9.450	2.79	15.450	2.79	21.45	1.02
3.467	1.02	9.467	2.79	15.467	2.79	21.47	1.02
3.483	1.02	9.483	2.79	15.483	2.79	21.48	1.02
3.500	1.02	9.500	2.79	15.500	2.79	21.50	1.02
3.517	1.02	9.517	2.79	15.517	2.79	21.52	1.02
3.533	1.02	9.533	2.79	15.533	2.79	21.53	1.02
3.550	1.02	9.550	2.79	15.550	2.79	21.55	1.02
3.567	1.02	9.567	2.79	15.567	2.79	21.57	1.02
3.583	1.02	9.583	2.79	15.583	2.79	21.58	1.02
3.600	1.02	9.600	2.79	15.600	2.79	21.60	1.02
3.617	1.02	9.617	2.79	15.617	2.79	21.62	1.02
3.633	1.02	9.633	2.79	15.633	2.79	21.63	1.02
3.650	1.02	9.650	2.79	15.650	2.79	21.65	1.02
3.667	1.02	9.667	2.79	15.667	2.79	21.67	1.02
3.683	1.02	9.683	2.79	15.683	2.79	21.68	1.02
3.700	1.02	9.700	2.79	15.700	2.79	21.70	1.02
3.717	1.02	9.717	2.79	15.717	2.79	21.72	1.02
3.733	1.02	9.733	2.79	15.733	2.79	21.73	1.02
3.750	1.02	9.750	2.79	15.750	2.79	21.75	1.02
3.767	1.02	9.767	2.79	15.767	2.79	21.77	1.02
3.783	1.02	9.783	2.79	15.783	2.79	21.78	1.02
3.800	1.02	9.800	2.79	15.800	2.79	21.80	1.02
3.817	1.02	9.817	2.79	15.817	2.79	21.82	1.02
3.833	1.02	9.833	2.79	15.833	2.79	21.83	1.02
3.850	1.02	9.850	2.79	15.850	2.79	21.85	1.02
3.867	1.02	9.867	2.79	15.867	2.79	21.87	1.02
3.883	1.02	9.883	2.79	15.883	2.79	21.88	1.02
3.900	1.02	9.900	2.79	15.900	2.79	21.90	1.02
3.917	1.02	9.917	2.79	15.917	2.79	21.92	1.02
3.933	1.02	9.933	2.79	15.933	2.79	21.93	1.02
3.950	1.02	9.950	2.79	15.950	2.79	21.95	1.02
3.967	1.02	9.967	2.79	15.967	2.79	21.97	1.02
3.983	1.02	9.983	2.79	15.983	2.79	21.98	1.02
4.000	1.02	10.000	2.79	16.000	2.79	22.00	1.02
4.017	2.03	10.017	5.08	16.017	2.03	22.02	1.02

4.033	2.03	10.033	5.08	16.033	2.03	22.03	1.02
4.050	2.03	10.050	5.08	16.050	2.03	22.05	1.02
4.067	2.03	10.067	5.08	16.067	2.03	22.07	1.02
4.083	2.03	10.083	5.08	16.083	2.03	22.08	1.02
4.100	2.03	10.100	5.08	16.100	2.03	22.10	1.02
4.117	2.03	10.117	5.08	16.117	2.03	22.12	1.02
4.133	2.03	10.133	5.08	16.133	2.03	22.13	1.02
4.150	2.03	10.150	5.08	16.150	2.03	22.15	1.02
4.167	2.03	10.167	5.08	16.167	2.03	22.17	1.02
4.183	2.03	10.183	5.08	16.183	2.03	22.18	1.02
4.200	2.03	10.200	5.08	16.200	2.03	22.20	1.02
4.217	2.03	10.217	5.08	16.217	2.03	22.22	1.02
4.233	2.03	10.233	5.08	16.233	2.03	22.23	1.02
4.250	2.03	10.250	5.08	16.250	2.03	22.25	1.02
4.267	2.03	10.267	5.08	16.267	2.03	22.27	1.02
4.283	2.03	10.283	5.08	16.283	2.03	22.28	1.02
4.300	2.03	10.300	5.08	16.300	2.03	22.30	1.02
4.317	2.03	10.317	5.08	16.317	2.03	22.32	1.02
4.333	2.03	10.333	5.08	16.333	2.03	22.33	1.02
4.350	2.03	10.350	5.08	16.350	2.03	22.35	1.02
4.367	2.03	10.367	5.08	16.367	2.03	22.37	1.02
4.383	2.03	10.383	5.08	16.383	2.03	22.38	1.02
4.400	2.03	10.400	5.08	16.400	2.03	22.40	1.02
4.417	2.03	10.417	5.08	16.417	2.03	22.42	1.02
4.433	2.03	10.433	5.08	16.433	2.03	22.43	1.02
4.450	2.03	10.450	5.08	16.450	2.03	22.45	1.02
4.467	2.03	10.467	5.08	16.467	2.03	22.47	1.02
4.483	2.03	10.483	5.08	16.483	2.03	22.48	1.02
4.500	2.03	10.500	5.08	16.500	2.03	22.50	1.02
4.517	2.03	10.517	5.08	16.517	2.03	22.52	1.02
4.533	2.03	10.533	5.08	16.533	2.03	22.53	1.02
4.550	2.03	10.550	5.08	16.550	2.03	22.55	1.02
4.567	2.03	10.567	5.08	16.567	2.03	22.57	1.02
4.583	2.03	10.583	5.08	16.583	2.03	22.58	1.02
4.600	2.03	10.600	5.08	16.600	2.03	22.60	1.02
4.617	2.03	10.617	5.08	16.617	2.03	22.62	1.02
4.633	2.03	10.633	5.08	16.633	2.03	22.63	1.02
4.650	2.03	10.650	5.08	16.650	2.03	22.65	1.02
4.667	2.03	10.667	5.08	16.667	2.03	22.67	1.02
4.683	2.03	10.683	5.08	16.683	2.03	22.68	1.02
4.700	2.03	10.700	5.08	16.700	2.03	22.70	1.02
4.717	2.03	10.717	5.08	16.717	2.03	22.72	1.02
4.733	2.03	10.733	5.08	16.733	2.03	22.73	1.02
4.750	2.03	10.750	5.08	16.750	2.03	22.75	1.02
4.767	2.03	10.767	5.08	16.767	2.03	22.77	1.02
4.783	2.03	10.783	5.08	16.783	2.03	22.78	1.02
4.800	2.03	10.800	5.08	16.800	2.03	22.80	1.02
4.817	2.03	10.817	5.08	16.817	2.03	22.82	1.02
4.833	2.03	10.833	5.08	16.833	2.03	22.83	1.02
4.850	2.03	10.850	5.08	16.850	2.03	22.85	1.02
4.867	2.03	10.867	5.08	16.867	2.03	22.87	1.02
4.883	2.03	10.883	5.08	16.883	2.03	22.88	1.02
4.900	2.03	10.900	5.08	16.900	2.03	22.90	1.02
4.917	2.03	10.917	5.08	16.917	2.03	22.92	1.02
4.933	2.03	10.933	5.08	16.933	2.03	22.93	1.02
4.950	2.03	10.950	5.08	16.950	2.03	22.95	1.02
4.967	2.03	10.967	5.08	16.967	2.03	22.97	1.02
4.983	2.03	10.983	5.08	16.983	2.03	22.98	1.02
5.000	2.03	11.000	5.08	17.000	2.03	23.00	1.02
5.017	2.03	11.017	7.11	17.017	2.03	23.02	1.02
5.033	2.03	11.033	7.11	17.033	2.03	23.03	1.02
5.050	2.03	11.050	7.11	17.050	2.03	23.05	1.02
5.067	2.03	11.067	7.11	17.067	2.03	23.07	1.02
5.083	2.03	11.083	7.11	17.083	2.03	23.08	1.02
5.100	2.03	11.100	7.11	17.100	2.03	23.10	1.02
5.117	2.03	11.117	7.11	17.117	2.03	23.12	1.02
5.133	2.03	11.133	7.11	17.133	2.03	23.13	1.02
5.150	2.03	11.150	7.11	17.150	2.03	23.15	1.02
5.167	2.03	11.167	7.11	17.167	2.03	23.17	1.02
5.183	2.03	11.183	7.11	17.183	2.03	23.18	1.02
5.200	2.03	11.200	7.11	17.200	2.03	23.20	1.02
5.217	2.03	11.217	10.41	17.217	2.03	23.22	1.02
5.233	2.03	11.233	10.41	17.233	2.03	23.23	1.02
5.250	2.03	11.250	10.41	17.250	2.03	23.25	1.02
5.267	2.03	11.267	10.41	17.267	2.03	23.27	1.02
5.283	2.03	11.283	10.41	17.283	2.03	23.28	1.02
5.300	2.03	11.300	10.41	17.300	2.03	23.30	1.02
5.317	2.03	11.317	10.41	17.317	2.03	23.32	1.02
5.333	2.03	11.333	10.41	17.333	2.03	23.33	1.02
5.350	2.03	11.350	10.41	17.350	2.03	23.35	1.02
5.367	2.03	11.367	10.41	17.367	2.03	23.37	1.02
5.383	2.03	11.383	10.41	17.383	2.03	23.38	1.02
5.400	2.03	11.400	10.41	17.400	2.03	23.40	1.02
5.417	2.03	11.417	23.37	17.417	2.03	23.42	1.02
5.433	2.03	11.433	23.37	17.433	2.03	23.43	1.02
5.450	2.03	11.450	23.37	17.450	2.03	23.45	1.02
5.467	2.03	11.467	23.37	17.467	2.03	23.47	1.02
5.483	2.03	11.483	23.37	17.483	2.03	23.48	1.02
5.500	2.03	11.500	23.37	17.500	2.03	23.50	1.02
5.517	2.03	11.517	23.37	17.517	2.03	23.52	1.02
5.533	2.03	11.533	23.37	17.533	2.03	23.53	1.02
5.550	2.03	11.550	23.37	17.550	2.03	23.55	1.02
5.567	2.03	11.567	23.37	17.567	2.03	23.57	1.02
5.583	2.03	11.583	23.37	17.583	2.03	23.58	1.02
5.600	2.03	11.600	23.37	17.600	2.03	23.60	1.02
5.617	2.03	11.617	51.55	17.617	2.03	23.62	1.02
5.633	2.03	11.633	51.56	17.633	2.03	23.63	1.02
5.650	2.03	11.650	51.56	17.650	2.03	23.65	1.02
5.667	2.03	11.667	51.56	17.667	2.03	23.67	1.02
5.683	2.03	11.683	51.56	17.683	2.03	23.68	1.02

5.700	2.03	11.700	51.56	17.700	2.03	23.70	1.02
5.717	2.03	11.717	51.56	17.717	2.03	23.72	1.02
5.733	2.03	11.733	51.56	17.733	2.03	23.73	1.02
5.750	2.03	11.750	51.56	17.750	2.03	23.75	1.02
5.767	2.03	11.767	51.56	17.767	2.03	23.77	1.02
5.783	2.03	11.783	51.56	17.783	2.03	23.78	1.02
5.800	2.03	11.800	51.56	17.800	2.03	23.80	1.02
5.817	2.03	11.817	107.41	17.817	2.03	23.82	1.02
5.833	2.03	11.833	107.44	17.833	2.03	23.83	1.02
5.850	2.03	11.850	107.44	17.850	2.03	23.85	1.02
5.867	2.03	11.867	107.44	17.867	2.03	23.87	1.02
5.883	2.03	11.883	107.44	17.883	2.03	23.88	1.02
5.900	2.03	11.900	107.44	17.900	2.03	23.90	1.02
5.917	2.03	11.917	107.44	17.917	2.03	23.92	1.02
5.933	2.03	11.933	107.44	17.933	2.03	23.93	1.02
5.950	2.03	11.950	107.44	17.950	2.03	23.95	1.02
5.967	2.03	11.967	107.44	17.967	2.03	23.97	1.02
5.983	2.03	11.983	107.44	17.983	2.03	23.98	1.02
6.000	2.03	12.000	107.44	18.000	2.03	24.00	1.02

Max.Eff.Inten.(mm/hr)=	107.44	84.40		
over (min)	5.00	3.00		
Storage Coeff. (min)=	1.53 (ii)	2.62 (ii)		
Unit Hyd. Tpeak (min)=	5.00	3.00		
Unit Hyd. peak (cms)=	0.42	0.41		
			TOTALS	
PEAK FLOW (cms)=	0.04	0.00	0.044 (iii)	
TIME TO PEAK (hrs)=	12.00	12.00	12.00	
RUNOFF VOLUME (mm)=	94.95	64.06	94.64	
TOTAL RAINFALL (mm)=	95.95	95.95	95.95	
RUNOFF COEFFICIENT =	0.99	0.67	0.99	

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0103)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0250	0.0040
	0.0130	0.0020	0.0380	0.0059

AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2014)	0.148	0.044	12.00	94.64
OUTFLOW: ID= 1 (0103)	0.148	0.022	12.07	94.39

PEAK FLOW REDUCTION [Qout/Qin](%)= 49.67
TIME SHIFT OF PEAK FLOW (min)= 4.00
MAXIMUM STORAGE USED (ha.m.)= 0.0035

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB STANDHYD (2013) ID= 1 DT= 1.0 min	Area (ha)= 0.31	Total Imp(%)= 99.00	Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.31	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	65.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	1.02	6.017	2.03	12.017	18.86	18.02	2.03
0.033	1.02	6.033	2.03	12.033	18.80	18.03	2.03
0.050	1.02	6.050	2.03	12.050	18.80	18.05	2.03
0.067	1.02	6.067	2.03	12.067	18.80	18.07	2.03
0.083	1.02	6.083	2.03	12.083	18.80	18.08	2.03
0.100	1.02	6.100	2.03	12.100	18.80	18.10	2.03
0.117	1.02	6.117	2.03	12.117	18.80	18.12	2.03
0.133	1.02	6.133	2.03	12.133	18.80	18.13	2.03
0.150	1.02	6.150	2.03	12.150	18.80	18.15	2.03
0.167	1.02	6.167	2.03	12.167	18.80	18.17	2.03
0.183	1.02	6.183	2.03	12.183	18.80	18.18	2.03
0.200	1.02	6.200	2.03	12.200	18.80	18.20	2.03
0.217	1.02	6.217	2.03	12.217	11.69	18.22	2.03
0.233	1.02	6.233	2.03	12.233	11.68	18.23	2.03
0.250	1.02	6.250	2.03	12.250	11.68	18.25	2.03
0.267	1.02	6.267	2.03	12.267	11.68	18.27	2.03
0.283	1.02	6.283	2.03	12.283	11.68	18.28	2.03
0.300	1.02	6.300	2.03	12.300	11.68	18.30	2.03
0.317	1.02	6.317	2.03	12.317	11.68	18.32	2.03
0.333	1.02	6.333	2.03	12.333	11.68	18.33	2.03
0.350	1.02	6.350	2.03	12.350	11.68	18.35	2.03
0.367	1.02	6.367	2.03	12.367	11.68	18.37	2.03
0.383	1.02	6.383	2.03	12.383	11.68	18.38	2.03

0.400	1.02	6.400	2.03	12.400	11.68	18.40	2.03
0.417	1.02	6.417	2.03	12.417	8.38	18.42	2.03
0.433	1.02	6.433	2.03	12.433	8.38	18.43	2.03
0.450	1.02	6.450	2.03	12.450	8.38	18.45	2.03
0.467	1.02	6.467	2.03	12.467	8.38	18.47	2.03
0.483	1.02	6.483	2.03	12.483	8.38	18.48	2.03
0.500	1.02	6.500	2.03	12.500	8.38	18.50	2.03
0.517	1.02	6.517	2.03	12.517	8.38	18.52	2.03
0.533	1.02	6.533	2.03	12.533	8.38	18.53	2.03
0.550	1.02	6.550	2.03	12.550	8.38	18.55	2.03
0.567	1.02	6.567	2.03	12.567	8.38	18.57	2.03
0.583	1.02	6.583	2.03	12.583	8.38	18.58	2.03
0.600	1.02	6.600	2.03	12.600	8.38	18.60	2.03
0.617	1.02	6.617	2.03	12.617	8.13	18.62	2.03
0.633	1.02	6.633	2.03	12.633	8.13	18.63	2.03
0.650	1.02	6.650	2.03	12.650	8.13	18.65	2.03
0.667	1.02	6.667	2.03	12.667	8.13	18.67	2.03
0.683	1.02	6.683	2.03	12.683	8.13	18.68	2.03
0.700	1.02	6.700	2.03	12.700	8.13	18.70	2.03
0.717	1.02	6.717	2.03	12.717	8.13	18.72	2.03
0.733	1.02	6.733	2.03	12.733	8.13	18.73	2.03
0.750	1.02	6.750	2.03	12.750	8.13	18.75	2.03
0.767	1.02	6.767	2.03	12.767	8.13	18.77	2.03
0.783	1.02	6.783	2.03	12.783	8.13	18.78	2.03
0.800	1.02	6.800	2.03	12.800	8.13	18.80	2.03
0.817	1.02	6.817	2.03	12.817	5.59	18.82	2.03
0.833	1.02	6.833	2.03	12.833	5.59	18.83	2.03
0.850	1.02	6.850	2.03	12.850	5.59	18.85	2.03
0.867	1.02	6.867	2.03	12.867	5.59	18.87	2.03
0.883	1.02	6.883	2.03	12.883	5.59	18.88	2.03
0.900	1.02	6.900	2.03	12.900	5.59	18.90	2.03
0.917	1.02	6.917	2.03	12.917	5.59	18.92	2.03
0.933	1.02	6.933	2.03	12.933	5.59	18.93	2.03
0.950	1.02	6.950	2.03	12.950	5.59	18.95	2.03
0.967	1.02	6.967	2.03	12.967	5.59	18.97	2.03
0.983	1.02	6.983	2.03	12.983	5.59	18.98	2.03
1.000	1.02	7.000	2.03	13.000	5.59	19.00	2.03
1.017	1.02	7.017	2.03	13.017	4.83	19.02	1.52
1.033	1.02	7.033	2.03	13.033	4.83	19.03	1.52
1.050	1.02	7.050	2.03	13.050	4.83	19.05	1.52
1.067	1.02	7.067	2.03	13.067	4.83	19.07	1.52
1.083	1.02	7.083	2.03	13.083	4.83	19.08	1.52
1.100	1.02	7.100	2.03	13.100	4.83	19.10	1.52
1.117	1.02	7.117	2.03	13.117	4.83	19.12	1.52
1.133	1.02	7.133	2.03	13.133	4.83	19.13	1.52
1.150	1.02	7.150	2.03	13.150	4.83	19.15	1.52
1.167	1.02	7.167	2.03	13.167	4.83	19.17	1.52
1.183	1.02	7.183	2.03	13.183	4.83	19.18	1.52
1.200	1.02	7.200	2.03	13.200	4.83	19.20	1.52
1.217	1.02	7.217	2.03	13.217	4.83	19.22	1.52
1.233	1.02	7.233	2.03	13.233	4.83	19.23	1.52
1.250	1.02	7.250	2.03	13.250	4.83	19.25	1.52
1.267	1.02	7.267	2.03	13.267	4.83	19.27	1.52
1.283	1.02	7.283	2.03	13.283	4.83	19.28	1.52
1.300	1.02	7.300	2.03	13.300	4.83	19.30	1.52
1.317	1.02	7.317	2.03	13.317	4.83	19.32	1.52
1.333	1.02	7.333	2.03	13.333	4.83	19.33	1.52
1.350	1.02	7.350	2.03	13.350	4.83	19.35	1.52
1.367	1.02	7.367	2.03	13.367	4.83	19.37	1.52
1.383	1.02	7.383	2.03	13.383	4.83	19.38	1.52
1.400	1.02	7.400	2.03	13.400	4.83	19.40	1.52
1.417	1.02	7.417	2.03	13.417	4.83	19.42	1.52
1.433	1.02	7.433	2.03	13.433	4.83	19.43	1.52
1.450	1.02	7.450	2.03	13.450	4.83	19.45	1.52
1.467	1.02	7.467	2.03	13.467	4.83	19.47	1.52
1.483	1.02	7.483	2.03	13.483	4.83	19.48	1.52
1.500	1.02	7.500	2.03	13.500	4.83	19.50	1.52
1.517	1.02	7.517	2.03	13.517	4.83	19.52	1.52
1.533	1.02	7.533	2.03	13.533	4.83	19.53	1.52
1.550	1.02	7.550	2.03	13.550	4.83	19.55	1.52
1.567	1.02	7.567	2.03	13.567	4.83	19.57	1.52
1.583	1.02	7.583	2.03	13.583	4.83	19.58	1.52
1.600	1.02	7.600	2.03	13.600	4.83	19.60	1.52
1.617	1.02	7.617	2.03	13.617	4.83	19.62	1.52
1.633	1.02	7.633	2.03	13.633	4.83	19.63	1.52
1.650	1.02	7.650	2.03	13.650	4.83	19.65	1.52
1.667	1.02	7.667	2.03	13.667	4.83	19.67	1.52
1.683	1.02	7.683	2.03	13.683	4.83	19.68	1.52
1.700	1.02	7.700	2.03	13.700	4.83	19.70	1.52
1.717	1.02	7.717	2.03	13.717	4.83	19.72	1.52
1.733	1.02	7.733	2.03	13.733	4.83	19.73	1.52
1.750	1.02	7.750	2.03	13.750	4.83	19.75	1.52
1.767	1.02	7.767	2.03	13.767	4.83	19.77	1.52
1.783	1.02	7.783	2.03	13.783	4.83	19.78	1.52
1.800	1.02	7.800	2.03	13.800	4.83	19.80	1.52
1.817	1.02	7.817	2.03	13.817	4.83	19.82	1.52
1.833	1.02	7.833	2.03	13.833	4.83	19.83	1.52
1.850	1.02	7.850	2.03	13.850	4.83	19.85	1.52
1.867	1.02	7.867	2.03	13.867	4.83	19.87	1.52
1.883	1.02	7.883	2.03	13.883	4.83	19.88	1.52
1.900	1.02	7.900	2.03	13.900	4.83	19.90	1.52
1.917	1.02	7.917	2.03	13.917	4.83	19.92	1.52
1.933	1.02	7.933	2.03	13.933	4.83	19.93	1.52
1.950	1.02	7.950	2.03	13.950	4.83	19.95	1.52
1.967	1.02	7.967	2.03	13.967	4.83	19.97	1.52
1.983	1.02	7.983	2.03	13.983	4.83	19.98	1.52
2.000	1.02	8.000	2.03	14.000	4.83	20.00	1.52
2.017	1.02	8.017	2.79	14.017	2.80	20.02	1.52
2.033	1.02	8.033	2.79	14.033	2.79	20.03	1.52
2.050	1.02	8.050	2.79	14.050	2.79	20.05	1.52

2.067	1.02	8.067	2.79	14.067	2.79	20.07	1.52
2.083	1.02	8.083	2.79	14.083	2.79	20.08	1.52
2.100	1.02	8.100	2.79	14.100	2.79	20.10	1.52
2.117	1.02	8.117	2.79	14.117	2.79	20.12	1.52
2.133	1.02	8.133	2.79	14.133	2.79	20.13	1.52
2.150	1.02	8.150	2.79	14.150	2.79	20.15	1.52
2.167	1.02	8.167	2.79	14.167	2.79	20.17	1.52
2.183	1.02	8.183	2.79	14.183	2.79	20.18	1.52
2.200	1.02	8.200	2.79	14.200	2.79	20.20	1.52
2.217	1.02	8.217	2.79	14.217	2.79	20.22	1.52
2.233	1.02	8.233	2.79	14.233	2.79	20.23	1.52
2.250	1.02	8.250	2.79	14.250	2.79	20.25	1.52
2.267	1.02	8.267	2.79	14.267	2.79	20.27	1.52
2.283	1.02	8.283	2.79	14.283	2.79	20.28	1.52
2.300	1.02	8.300	2.79	14.300	2.79	20.30	1.52
2.317	1.02	8.317	2.79	14.317	2.79	20.32	1.52
2.333	1.02	8.333	2.79	14.333	2.79	20.33	1.52
2.350	1.02	8.350	2.79	14.350	2.79	20.35	1.52
2.367	1.02	8.367	2.79	14.367	2.79	20.37	1.52
2.383	1.02	8.383	2.79	14.383	2.79	20.38	1.52
2.400	1.02	8.400	2.79	14.400	2.79	20.40	1.52
2.417	1.02	8.417	2.79	14.417	2.79	20.42	1.52
2.433	1.02	8.433	2.79	14.433	2.79	20.43	1.52
2.450	1.02	8.450	2.79	14.450	2.79	20.45	1.52
2.467	1.02	8.467	2.79	14.467	2.79	20.47	1.52
2.483	1.02	8.483	2.79	14.483	2.79	20.48	1.52
2.500	1.02	8.500	2.79	14.500	2.79	20.50	1.52
2.517	1.02	8.517	2.79	14.517	2.79	20.52	1.52
2.533	1.02	8.533	2.79	14.533	2.79	20.53	1.52
2.550	1.02	8.550	2.79	14.550	2.79	20.55	1.52
2.567	1.02	8.567	2.79	14.567	2.79	20.57	1.52
2.583	1.02	8.583	2.79	14.583	2.79	20.58	1.52
2.600	1.02	8.600	2.79	14.600	2.79	20.60	1.52
2.617	1.02	8.617	2.79	14.617	2.79	20.62	1.52
2.633	1.02	8.633	2.79	14.633	2.79	20.63	1.52
2.650	1.02	8.650	2.79	14.650	2.79	20.65	1.52
2.667	1.02	8.667	2.79	14.667	2.79	20.67	1.52
2.683	1.02	8.683	2.79	14.683	2.79	20.68	1.52
2.700	1.02	8.700	2.79	14.700	2.79	20.70	1.52
2.717	1.02	8.717	2.79	14.717	2.79	20.72	1.52
2.733	1.02	8.733	2.79	14.733	2.79	20.73	1.52
2.750	1.02	8.750	2.79	14.750	2.79	20.75	1.52
2.767	1.02	8.767	2.79	14.767	2.79	20.77	1.52
2.783	1.02	8.783	2.79	14.783	2.79	20.78	1.52
2.800	1.02	8.800	2.79	14.800	2.79	20.80	1.52
2.817	1.02	8.817	2.79	14.817	2.79	20.82	1.52
2.833	1.02	8.833	2.79	14.833	2.79	20.83	1.52
2.850	1.02	8.850	2.79	14.850	2.79	20.85	1.52
2.867	1.02	8.867	2.79	14.867	2.79	20.87	1.52
2.883	1.02	8.883	2.79	14.883	2.79	20.88	1.52

2.900	1.02	8.900	2.79	14.900	2.79	20.90	1.52
2.917	1.02	8.917	2.79	14.917	2.79	20.92	1.52
2.933	1.02	8.933	2.79	14.933	2.79	20.93	1.52
2.950	1.02	8.950	2.79	14.950	2.79	20.95	1.52
2.967	1.02	8.967	2.79	14.967	2.79	20.97	1.52
2.983	1.02	8.983	2.79	14.983	2.79	20.98	1.52
3.000	1.02	9.000	2.79	15.000	2.79	21.00	1.52
3.017	1.02	9.017	2.79	15.017	2.79	21.02	1.02
3.033	1.02	9.033	2.79	15.033	2.79	21.03	1.02
3.050	1.02	9.050	2.79	15.050	2.79	21.05	1.02
3.067	1.02	9.067	2.79	15.067	2.79	21.07	1.02
3.083	1.02	9.083	2.79	15.083	2.79	21.08	1.02
3.100	1.02	9.100	2.79	15.100	2.79	21.10	1.02
3.117	1.02	9.117	2.79	15.117	2.79	21.12	1.02
3.133	1.02	9.133	2.79	15.133	2.79	21.13	1.02
3.150	1.02	9.150	2.79	15.150	2.79	21.15	1.02
3.167	1.02	9.167	2.79	15.167	2.79	21.17	1.02
3.183	1.02	9.183	2.79	15.183	2.79	21.18	1.02
3.200	1.02	9.200	2.79	15.200	2.79	21.20	1.02
3.217	1.02	9.217	2.79	15.217	2.79	21.22	1.02
3.233	1.02	9.233	2.79	15.233	2.79	21.23	1.02
3.250	1.02	9.250	2.79	15.250	2.79	21.25	1.02
3.267	1.02	9.267	2.79	15.267	2.79	21.27	1.02
3.283	1.02	9.283	2.79	15.283	2.79	21.28	1.02
3.300	1.02	9.300	2.79	15.300	2.79	21.30	1.02
3.317	1.02	9.317	2.79	15.317	2.79	21.32	1.02
3.333	1.02	9.333	2.79	15.333	2.79	21.33	1.02
3.350	1.02	9.350	2.79	15.350	2.79	21.35	1.02
3.367	1.02	9.367	2.79	15.367	2.79	21.37	1.02
3.383	1.02	9.383	2.79	15.383	2.79	21.38	1.02
3.400	1.02	9.400	2.79	15.400	2.79	21.40	1.02
3.417	1.02	9.417	2.79	15.417	2.79	21.42	1.02
3.433	1.02	9.433	2.79	15.433	2.79	21.43	1.02
3.450	1.02	9.450	2.79	15.450	2.79	21.45	1.02
3.467	1.02	9.467	2.79	15.467	2.79	21.47	1.02
3.483	1.02	9.483	2.79	15.483	2.79	21.48	1.02
3.500	1.02	9.500	2.79	15.500	2.79	21.50	1.02
3.517	1.02	9.517	2.79	15.517	2.79	21.52	1.02
3.533	1.02	9.533	2.79	15.533	2.79	21.53	1.02
3.550	1.02	9.550	2.79	15.550	2.79	21.55	1.02
3.567	1.02	9.567	2.79	15.567	2.79	21.57	1.02
3.583	1.02	9.583	2.79	15.583	2.79	21.58	1.02
3.600	1.02	9.600	2.79	15.600	2.79	21.60	1.02
3.617	1.02	9.617	2.79	15.617	2.79	21.62	1.02
3.633	1.02	9.633	2.79	15.633	2.79	21.63	1.02
3.650	1.02	9.650	2.79	15.650	2.79	21.65	1.02
3.667	1.02	9.667	2.79	15.667	2.79	21.67	1.02
3.683	1.02	9.683	2.79	15.683	2.79	21.68	1.02
3.700	1.02	9.700	2.79	15.700	2.79	21.70	1.02
3.717	1.02	9.717	2.79	15.717	2.79	21.72	1.02

3.733	1.02	9.733	2.79	15.733	2.79	21.73	1.02
3.750	1.02	9.750	2.79	15.750	2.79	21.75	1.02
3.767	1.02	9.767	2.79	15.767	2.79	21.77	1.02
3.783	1.02	9.783	2.79	15.783	2.79	21.78	1.02
3.800	1.02	9.800	2.79	15.800	2.79	21.80	1.02
3.817	1.02	9.817	2.79	15.817	2.79	21.82	1.02
3.833	1.02	9.833	2.79	15.833	2.79	21.83	1.02
3.850	1.02	9.850	2.79	15.850	2.79	21.85	1.02
3.867	1.02	9.867	2.79	15.867	2.79	21.87	1.02
3.883	1.02	9.883	2.79	15.883	2.79	21.88	1.02
3.900	1.02	9.900	2.79	15.900	2.79	21.90	1.02
3.917	1.02	9.917	2.79	15.917	2.79	21.92	1.02
3.933	1.02	9.933	2.79	15.933	2.79	21.93	1.02
3.950	1.02	9.950	2.79	15.950	2.79	21.95	1.02
3.967	1.02	9.967	2.79	15.967	2.79	21.97	1.02
3.983	1.02	9.983	2.79	15.983	2.79	21.98	1.02
4.000	1.02	10.000	2.79	16.000	2.79	22.00	1.02
4.017	2.03	10.017	5.08	16.017	2.03	22.02	1.02
4.033	2.03	10.033	5.08	16.033	2.03	22.03	1.02
4.050	2.03	10.050	5.08	16.050	2.03	22.05	1.02
4.067	2.03	10.067	5.08	16.067	2.03	22.07	1.02
4.083	2.03	10.083	5.08	16.083	2.03	22.08	1.02
4.100	2.03	10.100	5.08	16.100	2.03	22.10	1.02
4.117	2.03	10.117	5.08	16.117	2.03	22.12	1.02
4.133	2.03	10.133	5.08	16.133	2.03	22.13	1.02
4.150	2.03	10.150	5.08	16.150	2.03	22.15	1.02
4.167	2.03	10.167	5.08	16.167	2.03	22.17	1.02
4.183	2.03	10.183	5.08	16.183	2.03	22.18	1.02
4.200	2.03	10.200	5.08	16.200	2.03	22.20	1.02
4.217	2.03	10.217	5.08	16.217	2.03	22.22	1.02
4.233	2.03	10.233	5.08	16.233	2.03	22.23	1.02
4.250	2.03	10.250	5.08	16.250	2.03	22.25	1.02
4.267	2.03	10.267	5.08	16.267	2.03	22.27	1.02
4.283	2.03	10.283	5.08	16.283	2.03	22.28	1.02
4.300	2.03	10.300	5.08	16.300	2.03	22.30	1.02
4.317	2.03	10.317	5.08	16.317	2.03	22.32	1.02
4.333	2.03	10.333	5.08	16.333	2.03	22.33	1.02
4.350	2.03	10.350	5.08	16.350	2.03	22.35	1.02
4.367	2.03	10.367	5.08	16.367	2.03	22.37	1.02
4.383	2.03	10.383	5.08	16.383	2.03	22.38	1.02
4.400	2.03	10.400	5.08	16.400	2.03	22.40	1.02
4.417	2.03	10.417	5.08	16.417	2.03	22.42	1.02
4.433	2.03	10.433	5.08	16.433	2.03	22.43	1.02
4.450	2.03	10.450	5.08	16.450	2.03	22.45	1.02
4.467	2.03	10.467	5.08	16.467	2.03	22.47	1.02
4.483	2.03	10.483	5.08	16.483	2.03	22.48	1.02
4.500	2.03	10.500	5.08	16.500	2.03	22.50	1.02
4.517	2.03	10.517	5.08	16.517	2.03	22.52	1.02
4.533	2.03	10.533	5.08	16.533	2.03	22.53	1.02
4.550	2.03	10.550	5.08	16.550	2.03	22.55	1.02
4.567	2.03	10.567	5.08	16.567	2.03	22.57	1.02
4.583	2.03	10.583	5.08	16.583	2.03	22.58	1.02
4.600	2.03	10.600	5.08	16.600	2.03	22.60	1.02
4.617	2.03	10.617	5.08	16.617	2.03	22.62	1.02
4.633	2.03	10.633	5.08	16.633	2.03	22.63	1.02
4.650	2.03	10.650	5.08	16.650	2.03	22.65	1.02
4.667	2.03	10.667	5.08	16.667	2.03	22.67	1.02
4.683	2.03	10.683	5.08	16.683	2.03	22.68	1.02
4.700	2.03	10.700	5.08	16.700	2.03	22.70	1.02
4.717	2.03	10.717	5.08	16.717	2.03	22.72	1.02
4.733	2.03	10.733	5.08	16.733	2.03	22.73	1.02
4.750	2.03	10.750	5.08	16.750	2.03	22.75	1.02
4.767	2.03	10.767	5.08	16.767	2.03	22.77	1.02
4.783	2.03	10.783	5.08	16.783	2.03	22.78	1.02
4.800	2.03	10.800	5.08	16.800	2.03	22.80	1.02
4.817	2.03	10.817	5.08	16.817	2.03	22.82	1.02
4.833	2.03	10.833	5.08	16.833	2.03	22.83	1.02
4.850	2.03	10.850	5.08	16.850	2.03	22.85	1.02
4.867	2.03	10.867	5.08	16.867	2.03	22.87	1.02
4.883	2.03	10.883	5.08	16.883	2.03	22.88	1.02
4.900	2.03	10.900	5.08	16.900	2.03	22.90	1.02
4.917	2.03	10.917	5.08	16.917	2.03	22.92	1.02
4.933	2.03	10.933	5.08	16.933	2.03	22.93	1.02
4.950	2.03	10.950	5.08	16.950	2.03	22.95	1.02
4.967	2.03	10.967	5.08	16.967	2.03	22.97	1.02
4.983	2.03	10.983	5.08	16.983	2.03	22.98	1.02
5.000	2.03	11.000	5.08	17.000	2.03	23.00	1.02
5.017	2.03	11.017	7.11	17.017	2.03	23.02	1.02
5.033	2.03	11.033	7.11	17.033	2.03	23.03	1.02
5.050	2.03	11.050	7.11	17.050	2.03	23.05	1.02
5.067	2.03	11.067	7.11	17.067	2.03	23.07	1.02
5.083	2.03	11.083	7.11	17.083	2.03	23.08	1.02
5.100	2.03	11.100	7.11	17.100	2.03	23.10	1.02
5.117	2.03	11.117	7.11	17.117	2.03	23.12	1.02
5.133	2.03	11.133	7.11	17.133	2.03	23.13	1.02
5.150	2.03	11.150	7.11	17.150	2.03	23.15	1.02
5.167	2.03	11.167	7.11	17.167	2.03	23.17	1.02
5.183	2.03	11.183	7.11	17.183	2.03	23.18	1.02
5.200	2.03	11.200	7.11	17.200	2.03	23.20	1.02
5.217	2.03	11.217	10.41	17.217	2.03	23.22	1.02
5.233	2.03	11.233	10.41	17.233	2.03	23.23	1.02
5.250	2.03	11.250	10.41	17.250	2.03	23.25	1.02
5.267	2.03	11.267	10.41	17.267	2.03	23.27	1.02
5.283	2.03	11.283	10.41	17.283	2.03	23.28	1.02
5.300	2.03	11.300	10.41	17.300	2.03	23.30	1.02
5.317	2.03	11.317	10.41	17.317	2.03	23.32	1.02
5.333	2.03	11.333	10.41	17.333	2.03	23.33	1.02
5.350	2.03	11.350	10.41	17.350	2.03	23.35	1.02
5.367	2.03	11.367	10.41	17.367	2.03	23.37	1.02
5.383	2.03	11.383	10.41	17.383	2.03	23.38	1.02

5.400	2.03	11.400	10.41	17.400	2.03	23.40	1.02
5.417	2.03	11.417	23.37	17.417	2.03	23.42	1.02
5.433	2.03	11.433	23.37	17.433	2.03	23.43	1.02
5.450	2.03	11.450	23.37	17.450	2.03	23.45	1.02
5.467	2.03	11.467	23.37	17.467	2.03	23.47	1.02
5.483	2.03	11.483	23.37	17.483	2.03	23.48	1.02
5.500	2.03	11.500	23.37	17.500	2.03	23.50	1.02
5.517	2.03	11.517	23.37	17.517	2.03	23.52	1.02
5.533	2.03	11.533	23.37	17.533	2.03	23.53	1.02
5.550	2.03	11.550	23.37	17.550	2.03	23.55	1.02
5.567	2.03	11.567	23.37	17.567	2.03	23.57	1.02
5.583	2.03	11.583	23.37	17.583	2.03	23.58	1.02
5.600	2.03	11.600	23.37	17.600	2.03	23.60	1.02
5.617	2.03	11.617	51.55	17.617	2.03	23.62	1.02
5.633	2.03	11.633	51.56	17.633	2.03	23.63	1.02
5.650	2.03	11.650	51.56	17.650	2.03	23.65	1.02
5.667	2.03	11.667	51.56	17.667	2.03	23.67	1.02
5.683	2.03	11.683	51.56	17.683	2.03	23.68	1.02
5.700	2.03	11.700	51.56	17.700	2.03	23.70	1.02
5.717	2.03	11.717	51.56	17.717	2.03	23.72	1.02
5.733	2.03	11.733	51.56	17.733	2.03	23.73	1.02
5.750	2.03	11.750	51.56	17.750	2.03	23.75	1.02
5.767	2.03	11.767	51.56	17.767	2.03	23.77	1.02
5.783	2.03	11.783	51.56	17.783	2.03	23.78	1.02
5.800	2.03	11.800	51.56	17.800	2.03	23.80	1.02
5.817	2.03	11.817	107.41	17.817	2.03	23.82	1.02
5.833	2.03	11.833	107.44	17.833	2.03	23.83	1.02
5.850	2.03	11.850	107.44	17.850	2.03	23.85	1.02
5.867	2.03	11.867	107.44	17.867	2.03	23.87	1.02
5.883	2.03	11.883	107.44	17.883	2.03	23.88	1.02
5.900	2.03	11.900	107.44	17.900	2.03	23.90	1.02
5.917	2.03	11.917	107.44	17.917	2.03	23.92	1.02
5.933	2.03	11.933	107.44	17.933	2.03	23.93	1.02
5.950	2.03	11.950	107.44	17.950	2.03	23.95	1.02
5.967	2.03	11.967	107.44	17.967	2.03	23.97	1.02
5.983	2.03	11.983	107.44	17.983	2.03	23.98	1.02
6.000	2.03	12.000	107.44	18.000	2.03	24.00	1.02

Max.Eff.Inten.(mm/hr)=	107.44	84.40	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.36 (ii)	3.45 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.35	0.31	
			TOTALS
PEAK FLOW (cms)=	0.09	0.00	0.091 (iii)
TIME TO PEAK (hrs)=	12.00	12.00	12.00
RUNOFF VOLUME (mm)=	94.95	64.06	94.64
TOTAL RAINFALL (mm)=	95.95	95.95	95.95
RUNOFF COEFFICIENT =	0.99	0.67	0.99

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0102) / IN= 2---> OUT= 1 / DT= 5.0 min	OVERFLOW IS OFF			
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0440	0.0083
	0.0220	0.0041	0.0660	0.0124

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2013)	0.310	0.091	12.00	94.64
OUTFLOW: ID= 1 (0102)	0.310	0.041	12.08	94.49

PEAK FLOW REDUCTION [Qout/Qin](%)= 45.10
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0078

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

ADD HYD (0001) : 1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0101):	0.23	0.033	12.08	94.14
+ ID2= 2 (0102):	0.31	0.041	12.08	94.49
ID = 3 (0001):	0.54	0.074	12.08	94.34

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0001) : 3 + 2 = 1

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 3 (0001):	0.54	0.074	12.08	94.34
+ ID2= 2 (0103):	0.15	0.022	12.07	94.39
ID = 1 (0001):	0.69	0.096	12.08	94.35

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB								
STANDHYD (0204)	Area (ha)= 0.33							
ID= 1 DT= 5.0 min	Total Imp(%)= 55.00 Dir. Conn.(%)= 55.00							

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.18	0.15
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	46.60	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	1.02	6.083	2.03	12.083	18.81	18.08	2.03
0.167	1.02	6.167	2.03	12.167	18.80	18.17	2.03
0.250	1.02	6.250	2.03	12.250	14.53	18.25	2.03
0.333	1.02	6.333	2.03	12.333	11.68	18.33	2.03
0.417	1.02	6.417	2.03	12.417	11.02	18.42	2.03
0.500	1.02	6.500	2.03	12.500	8.38	18.50	2.03
0.583	1.02	6.583	2.03	12.583	8.38	18.58	2.03
0.667	1.02	6.667	2.03	12.667	8.18	18.67	2.03
0.750	1.02	6.750	2.03	12.750	8.13	18.75	2.03
0.833	1.02	6.833	2.03	12.833	7.11	18.83	2.03
0.917	1.02	6.917	2.03	12.917	5.59	18.92	2.03
1.000	1.02	7.000	2.03	13.000	5.59	19.00	2.03
1.083	1.02	7.083	2.03	13.083	4.83	19.08	1.52
1.167	1.02	7.167	2.03	13.167	4.83	19.17	1.52
1.250	1.02	7.250	2.03	13.250	4.83	19.25	1.52
1.333	1.02	7.333	2.03	13.333	4.83	19.33	1.52
1.417	1.02	7.417	2.03	13.417	4.83	19.42	1.52
1.500	1.02	7.500	2.03	13.500	4.83	19.50	1.52
1.583	1.02	7.583	2.03	13.583	4.83	19.58	1.52
1.667	1.02	7.667	2.03	13.667	4.83	19.67	1.52
1.750	1.02	7.750	2.03	13.750	4.83	19.75	1.52
1.833	1.02	7.833	2.03	13.833	4.83	19.83	1.52
1.917	1.02	7.917	2.03	13.917	4.83	19.92	1.52
2.000	1.02	8.000	2.03	14.000	4.83	20.00	1.52
2.083	1.02	8.083	2.79	14.083	2.79	20.08	1.52
2.167	1.02	8.167	2.79	14.167	2.79	20.17	1.52
2.250	1.02	8.250	2.79	14.250	2.79	20.25	1.52
2.333	1.02	8.333	2.79	14.333	2.79	20.33	1.52
2.417	1.02	8.417	2.79	14.417	2.79	20.42	1.52
2.500	1.02	8.500	2.79	14.500	2.79	20.50	1.52
2.583	1.02	8.583	2.79	14.583	2.79	20.58	1.52
2.667	1.02	8.667	2.79	14.667	2.79	20.67	1.52
2.750	1.02	8.750	2.79	14.750	2.79	20.75	1.52
2.833	1.02	8.833	2.79	14.833	2.79	20.83	1.52
2.917	1.02	8.917	2.79	14.917	2.79	20.92	1.52
3.000	1.02	9.000	2.79	15.000	2.79	21.00	1.52
3.083	1.02	9.083	2.79	15.083	2.79	21.08	1.02
3.167	1.02	9.167	2.79	15.167	2.79	21.17	1.02
3.250	1.02	9.250	2.79	15.250	2.79	21.25	1.02
3.333	1.02	9.333	2.79	15.333	2.79	21.33	1.02
3.417	1.02	9.417	2.79	15.417	2.79	21.42	1.02
3.500	1.02	9.500	2.79	15.500	2.79	21.50	1.02
3.583	1.02	9.583	2.79	15.583	2.79	21.58	1.02
3.667	1.02	9.667	2.79	15.667	2.79	21.67	1.02
3.750	1.02	9.750	2.79	15.750	2.79	21.75	1.02
3.833	1.02	9.833	2.79	15.833	2.79	21.83	1.02
3.917	1.02	9.917	2.79	15.917	2.79	21.92	1.02
4.000	1.02	10.000	2.79	16.000	2.79	22.00	1.02
4.083	2.03	10.083	5.08	16.083	2.03	22.08	1.02
4.167	2.03	10.167	5.08	16.167	2.03	22.17	1.02
4.250	2.03	10.250	5.08	16.250	2.03	22.25	1.02
4.333	2.03	10.333	5.08	16.333	2.03	22.33	1.02
4.417	2.03	10.417	5.08	16.417	2.03	22.42	1.02
4.500	2.03	10.500	5.08	16.500	2.03	22.50	1.02
4.583	2.03	10.583	5.08	16.583	2.03	22.58	1.02
4.667	2.03	10.667	5.08	16.667	2.03	22.67	1.02
4.750	2.03	10.750	5.08	16.750	2.03	22.75	1.02
4.833	2.03	10.833	5.08	16.833	2.03	22.83	1.02
4.917	2.03	10.917	5.08	16.917	2.03	22.92	1.02
5.000	2.03	11.000	5.08	17.000	2.03	23.00	1.02
5.083	2.03	11.083	7.11	17.083	2.03	23.08	1.02
5.167	2.03	11.167	7.11	17.167	2.03	23.17	1.02
5.250	2.03	11.250	9.09	17.250	2.03	23.25	1.02
5.333	2.03	11.333	10.41	17.333	2.03	23.33	1.02
5.417	2.03	11.417	13.00	17.417	2.03	23.42	1.02
5.500	2.03	11.500	23.37	17.500	2.03	23.50	1.02
5.583	2.03	11.583	23.37	17.583	2.03	23.58	1.02
5.667	2.03	11.667	45.92	17.667	2.03	23.67	1.02
5.750	2.03	11.750	51.56	17.750	2.03	23.75	1.02
5.833	2.03	11.833	73.91	17.833	2.03	23.83	1.02
5.917	2.03	11.917	107.44	17.917	2.03	23.92	1.02
6.000	2.03	12.000	107.44	18.000	2.03	24.00	1.02

Max.Eff.Inten.(mm/hr)=		107.44	35.40	
over (min)		5.00	15.00	
Storage Coeff. (min)=		1.57 (ii)	12.26 (ii)	
Unit Hyd. Tpeak (min)=		5.00	15.00	
Unit Hyd. peak (cms)=		0.33	0.09	
				TOTALS
PEAK FLOW	(cms)=	0.05	0.01	0.062 (iii)
TIME TO PEAK	(hrs)=	12.00	12.08	12.00

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     RUNOFF VOLUME    (mm)=      94.95        30.93          66.12
     TOTAL RAINFALL   (mm)=      95.95        95.95          95.95
     RUNOFF COEFFICIENT   =       0.99         0.32           0.69

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0002)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
-------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0001):     0.69   0.096    12.08    94.35
     + ID2= 2 (  2011):     1.84   0.457    12.00    80.23
       ================================================
       ID = 3 (  0002):     2.53   0.540    12.00    84.07

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| ADD HYD  (  0002)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
-------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 3 (  0002):     2.53   0.540    12.00    84.07
     + ID2= 2 (  0204):     0.33   0.062    12.00    66.12
       ================================================
       ID = 1 (  0002):     2.85   0.602    12.00    82.02

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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| CHAMBER(  0025)|  OUTFLOW: ON,   UNDERDRAIN: OFF,  INFIL: OFF
|IN= 2--> OUT= 3 |  CHAMBER:
| DT=  5.0 min   |  MAX STO VOL (cu.m.)=  710.04  Bottom Area(m2)   =  614.46
------------------
                     DEPTH       STORAGE          |   DEPTH      STORAGE
                     (mm)        (cu.m.)          |   (mm)       (cu.m.)
                        0.00          0.00        |    864.00       430.26
                       25.00         13.40        |    889.00       441.69
                       51.00         26.76        |    914.00       453.02
                       76.00         40.09        |    940.00       464.23
                      102.00         53.40        |    965.00       475.34
                      127.00         66.68        |    991.00       486.32
                      152.00         79.92        |   1016.00       497.18
                      178.00         93.14        |   1041.00       507.92
                      203.00        106.32        |   1067.00       518.52
                      229.00        119.46        |   1092.00       528.98
                      254.00        132.57        |   1118.00       539.29
                      279.00        145.64        |   1143.00       549.44
                      305.00        158.66        |   1168.00       559.43
                      330.00        171.65        |   1194.00       569.25
                      356.00        184.58        |   1219.00       578.88
                      381.00        197.47        |   1245.00       588.32
                      406.00        210.31        |   1270.00       597.54
                      432.00        223.09        |   1295.00       606.52
                      457.00        235.83        |   1321.00       615.24
                      483.00        248.51        |   1346.00       623.67
                      508.00        261.13        |   1372.00       631.72
                      533.00        273.68        |   1397.00       639.20
                      559.00        286.18        |   1422.00       646.18
                      584.00        298.61        |   1448.00       653.00
                      610.00        310.97        |   1473.00       659.69
                      635.00        323.26        |   1499.00       666.24
                      660.00        335.48        |   1524.00       672.59
                      686.00        347.62        |   1549.00       678.83
                      711.00        359.68        |   1575.00       685.08
                      737.00        371.67        |   1600.00       691.32
                      762.00        383.57        |   1626.00       697.56
                      787.00        395.38        |   1651.00       703.80
                      813.00        407.10        |   1676.00       710.04
                      838.00        418.73        |      0.00         0.00

                    DEPTH       DISCHARGE        |   DEPTH      DISCHARGE
                      (m)         (cms)          |     (m)        (cms)
                    0.000         0.000          |   1.255        0.504
                    0.455         0.000          |   1.355        0.535
                    0.555         0.178          |   1.455        0.564
                    0.655         0.252          |   1.555        0.591
                    0.755         0.309          |   1.655        0.617
                    0.855         0.356          |   1.755        0.643
                    0.955         0.399          |   1.855        0.667
                    1.055         0.437          |   1.955        0.690
                    1.155         0.472          |   2.055        0.713

                      AREA         QPEAK            TPEAK         R.V.
                      (ha)         (cms)            (hrs)         (mm)
  INFLOW:ID= 2     2.85         0.602            12.00         82.02
 OUTFLOW:ID= 1     2.85         0.405            12.05         73.78
OVERFLOW:ID= 3     0.00         0.000             0.00          0.00

          Volume Reduction Rate[(RVin-RVout)/RVin](%)=       10.04
          Time to reach Max storage             (Hr)=       12.05
          Volume of water for drawdown in LID (cu.m.)=      234.86
```

Volume of maximum water storage (cu.m.)= 453.23
***** After simulation, water volume is not zero.

| Junction Command(0034) |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

| Junction Command(0035) |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.40	12.05	73.78
OUTFLOW: ID= 2(0035)	2.85	0.40	12.05	73.78

CALIB	STANDHYD (0202)	ID= 1 DT= 5.0 min	Area (ha)= 0.10	Total Imp(%)= 11.00	Dir. Conn.(%)= 11.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.09
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	25.66	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	1.02	6.083	2.03	12.083	18.81	18.08	2.03
0.167	1.02	6.167	2.03	12.167	18.80	18.17	2.03
0.250	1.02	6.250	2.03	12.250	14.53	18.25	2.03
0.333	1.02	6.333	2.03	12.333	11.68	18.33	2.03
0.417	1.02	6.417	2.03	12.417	11.02	18.42	2.03
0.500	1.02	6.500	2.03	12.500	8.38	18.50	2.03
0.583	1.02	6.583	2.03	12.583	8.38	18.58	2.03
0.667	1.02	6.667	2.03	12.667	8.18	18.67	2.03
0.750	1.02	6.750	2.03	12.750	8.13	18.75	2.03
0.833	1.02	6.833	2.03	12.833	7.11	18.83	2.03
0.917	1.02	6.917	2.03	12.917	5.59	18.92	2.03
1.000	1.02	7.000	2.03	13.000	5.59	19.00	2.03
1.083	1.02	7.083	2.03	13.083	4.83	19.08	1.52
1.167	1.02	7.167	2.03	13.167	4.83	19.17	1.52
1.250	1.02	7.250	2.03	13.250	4.83	19.25	1.52
1.333	1.02	7.333	2.03	13.333	4.83	19.33	1.52
1.417	1.02	7.417	2.03	13.417	4.83	19.42	1.52
1.500	1.02	7.500	2.03	13.500	4.83	19.50	1.52
1.583	1.02	7.583	2.03	13.583	4.83	19.58	1.52
1.667	1.02	7.667	2.03	13.667	4.83	19.67	1.52
1.750	1.02	7.750	2.03	13.750	4.83	19.75	1.52
1.833	1.02	7.833	2.03	13.833	4.83	19.83	1.52
1.917	1.02	7.917	2.03	13.917	4.83	19.92	1.52
2.000	1.02	8.000	2.03	14.000	4.83	20.00	1.52
2.083	1.02	8.083	2.79	14.083	2.79	20.08	1.52
2.167	1.02	8.167	2.79	14.167	2.79	20.17	1.52
2.250	1.02	8.250	2.79	14.250	2.79	20.25	1.52
2.333	1.02	8.333	2.79	14.333	2.79	20.33	1.52
2.417	1.02	8.417	2.79	14.417	2.79	20.42	1.52
2.500	1.02	8.500	2.79	14.500	2.79	20.50	1.52
2.583	1.02	8.583	2.79	14.583	2.79	20.58	1.52
2.667	1.02	8.667	2.79	14.667	2.79	20.67	1.52
2.750	1.02	8.750	2.79	14.750	2.79	20.75	1.52
2.833	1.02	8.833	2.79	14.833	2.79	20.83	1.52
2.917	1.02	8.917	2.79	14.917	2.79	20.92	1.52
3.000	1.02	9.000	2.79	15.000	2.79	21.00	1.52
3.083	1.02	9.083	2.79	15.083	2.79	21.08	1.02
3.167	1.02	9.167	2.79	15.167	2.79	21.17	1.02
3.250	1.02	9.250	2.79	15.250	2.79	21.25	1.02
3.333	1.02	9.333	2.79	15.333	2.79	21.33	1.02
3.417	1.02	9.417	2.79	15.417	2.79	21.42	1.02
3.500	1.02	9.500	2.79	15.500	2.79	21.50	1.02
3.583	1.02	9.583	2.79	15.583	2.79	21.58	1.02
3.667	1.02	9.667	2.79	15.667	2.79	21.67	1.02
3.750	1.02	9.750	2.79	15.750	2.79	21.75	1.02
3.833	1.02	9.833	2.79	15.833	2.79	21.83	1.02
3.917	1.02	9.917	2.79	15.917	2.79	21.92	1.02
4.000	1.02	10.000	2.79	16.000	2.79	22.00	1.02
4.083	2.03	10.083	5.08	16.083	2.03	22.08	1.02
4.167	2.03	10.167	5.08	16.167	2.03	22.17	1.02
4.250	2.03	10.250	5.08	16.250	2.03	22.25	1.02
4.333	2.03	10.333	5.08	16.333	2.03	22.33	1.02
4.417	2.03	10.417	5.08	16.417	2.03	22.42	1.02
4.500	2.03	10.500	5.08	16.500	2.03	22.50	1.02
4.583	2.03	10.583	5.08	16.583	2.03	22.58	1.02
4.667	2.03	10.667	5.08	16.667	2.03	22.67	1.02
4.750	2.03	10.750	5.08	16.750	2.03	22.75	1.02
4.833	2.03	10.833	5.08	16.833	2.03	22.83	1.02

4.917	2.03	10.917	5.08	16.917	2.03	22.92	1.02
5.000	2.03	11.000	5.08	17.000	2.03	23.00	1.02
5.083	2.03	11.083	7.11	17.083	2.03	23.08	1.02
5.167	2.03	11.167	7.11	17.167	2.03	23.17	1.02
5.250	2.03	11.250	9.09	17.250	2.03	23.25	1.02
5.333	2.03	11.333	10.41	17.333	2.03	23.33	1.02
5.417	2.03	11.417	13.00	17.417	2.03	23.42	1.02
5.500	2.03	11.500	23.37	17.500	2.03	23.50	1.02
5.583	2.03	11.583	23.37	17.583	2.03	23.58	1.02
5.667	2.03	11.667	45.92	17.667	2.03	23.67	1.02
5.750	2.03	11.750	51.56	17.750	2.03	23.75	1.02
5.833	2.03	11.833	73.91	17.833	2.03	23.83	1.02
5.917	2.03	11.917	107.44	17.917	2.03	23.92	1.02
6.000	2.03	12.000	107.44	18.000	2.03	24.00	1.02

Max.Eff.Inten.(mm/hr)=	107.44	35.40	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.10 (ii)	11.79 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.34	0.09	
			TOTALS
PEAK FLOW (cms)=	0.00	0.01	0.008 (iii)
TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	94.95	30.93	37.91
TOTAL RAINFALL (mm)=	95.95	95.95	95.95
RUNOFF COEFFICIENT =	0.99	0.32	0.40

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0203)	Area (ha)=	0.05	
ID= 1 DT= 5.0 min	Total Imp(%)=	27.00	Dir. Conn.(%)= 27.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.04
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	18.90	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	1.02	6.083	2.03	12.083	18.81	18.08	2.03
0.167	1.02	6.167	2.03	12.167	18.80	18.17	2.03
0.250	1.02	6.250	2.03	12.250	14.53	18.25	2.03
0.333	1.02	6.333	2.03	12.333	11.68	18.33	2.03
0.417	1.02	6.417	2.03	12.417	11.02	18.42	2.03
0.500	1.02	6.500	2.03	12.500	8.38	18.50	2.03
0.583	1.02	6.583	2.03	12.583	8.38	18.58	2.03
0.667	1.02	6.667	2.03	12.667	8.18	18.67	2.03
0.750	1.02	6.750	2.03	12.750	8.13	18.75	2.03
0.833	1.02	6.833	2.03	12.833	7.11	18.83	2.03
0.917	1.02	6.917	2.03	12.917	5.59	18.92	2.03
1.000	1.02	7.000	2.03	13.000	5.59	19.00	2.03
1.083	1.02	7.083	2.03	13.083	4.83	19.08	1.52
1.167	1.02	7.167	2.03	13.167	4.83	19.17	1.52
1.250	1.02	7.250	2.03	13.250	4.83	19.25	1.52
1.333	1.02	7.333	2.03	13.333	4.83	19.33	1.52
1.417	1.02	7.417	2.03	13.417	4.83	19.42	1.52
1.500	1.02	7.500	2.03	13.500	4.83	19.50	1.52
1.583	1.02	7.583	2.03	13.583	4.83	19.58	1.52
1.667	1.02	7.667	2.03	13.667	4.83	19.67	1.52
1.750	1.02	7.750	2.03	13.750	4.83	19.75	1.52
1.833	1.02	7.833	2.03	13.833	4.83	19.83	1.52
1.917	1.02	7.917	2.03	13.917	4.83	19.92	1.52
2.000	1.02	8.000	2.03	14.000	4.83	20.00	1.52
2.083	1.02	8.083	2.79	14.083	2.79	20.08	1.52
2.167	1.02	8.167	2.79	14.167	2.79	20.17	1.52
2.250	1.02	8.250	2.79	14.250	2.79	20.25	1.52
2.333	1.02	8.333	2.79	14.333	2.79	20.33	1.52
2.417	1.02	8.417	2.79	14.417	2.79	20.42	1.52
2.500	1.02	8.500	2.79	14.500	2.79	20.50	1.52
2.583	1.02	8.583	2.79	14.583	2.79	20.58	1.52
2.667	1.02	8.667	2.79	14.667	2.79	20.67	1.52
2.750	1.02	8.750	2.79	14.750	2.79	20.75	1.52
2.833	1.02	8.833	2.79	14.833	2.79	20.83	1.52
2.917	1.02	8.917	2.79	14.917	2.79	20.92	1.52
3.000	1.02	9.000	2.79	15.000	2.79	21.00	1.52
3.083	1.02	9.083	2.79	15.083	2.79	21.08	1.02
3.167	1.02	9.167	2.79	15.167	2.79	21.17	1.02
3.250	1.02	9.250	2.79	15.250	2.79	21.25	1.02
3.333	1.02	9.333	2.79	15.333	2.79	21.33	1.02
3.417	1.02	9.417	2.79	15.417	2.79	21.42	1.02
3.500	1.02	9.500	2.79	15.500	2.79	21.50	1.02
3.583	1.02	9.583	2.79	15.583	2.79	21.58	1.02
3.667	1.02	9.667	2.79	15.667	2.79	21.67	1.02

3.750	1.02	9.750	2.79	15.750	2.79	21.75	1.02
3.833	1.02	9.833	2.79	15.833	2.79	21.83	1.02
3.917	1.02	9.917	2.79	15.917	2.79	21.92	1.02
4.000	1.02	10.000	2.79	16.000	2.79	22.00	1.02
4.083	2.03	10.083	5.08	16.083	2.03	22.08	1.02
4.167	2.03	10.167	5.08	16.167	2.03	22.17	1.02
4.250	2.03	10.250	5.08	16.250	2.03	22.25	1.02
4.333	2.03	10.333	5.08	16.333	2.03	22.33	1.02
4.417	2.03	10.417	5.08	16.417	2.03	22.42	1.02
4.500	2.03	10.500	5.08	16.500	2.03	22.50	1.02
4.583	2.03	10.583	5.08	16.583	2.03	22.58	1.02
4.667	2.03	10.667	5.08	16.667	2.03	22.67	1.02
4.750	2.03	10.750	5.08	16.750	2.03	22.75	1.02
4.833	2.03	10.833	5.08	16.833	2.03	22.83	1.02
4.917	2.03	10.917	5.08	16.917	2.03	22.92	1.02
5.000	2.03	11.000	5.08	17.000	2.03	23.00	1.02
5.083	2.03	11.083	7.11	17.083	2.03	23.08	1.02
5.167	2.03	11.167	7.11	17.167	2.03	23.17	1.02
5.250	2.03	11.250	9.09	17.250	2.03	23.25	1.02
5.333	2.03	11.333	10.41	17.333	2.03	23.33	1.02
5.417	2.03	11.417	13.00	17.417	2.03	23.42	1.02
5.500	2.03	11.500	23.37	17.500	2.03	23.50	1.02
5.583	2.03	11.583	23.37	17.583	2.03	23.58	1.02
5.667	2.03	11.667	45.92	17.667	2.03	23.67	1.02
5.750	2.03	11.750	51.56	17.750	2.03	23.75	1.02
5.833	2.03	11.833	73.91	17.833	2.03	23.83	1.02
5.917	2.03	11.917	107.44	17.917	2.03	23.92	1.02
6.000	2.03	12.000	107.44	18.000	2.03	24.00	1.02

Max.Eff.Inten.(mm/hr)=	107.44	35.40	
over (min)	5.00	15.00	
Storage Coeff. (min)=	0.91 (ii)	11.61 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.34	0.09	
			TOTALS
PEAK FLOW (cms)=	0.00	0.00	0.007 (iii)
TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	94.95	30.93	48.11
TOTAL RAINFALL (mm)=	95.95	95.95	95.95
RUNOFF COEFFICIENT =	0.99	0.32	0.50

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0003)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0202):	0.10	0.008	12.00	37.91
+ ID2= 2 (0203):	0.05	0.007	12.00	48.11
ID = 3 (0003):	0.15	0.015	12.00	41.50

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0003)				
3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
*** W A R N I N G : HYDROGRAPH 0034 <ID= 2> IS DRY.				
*** W A R N I N G : HYDROGRAPH 0001 = HYDROGRAPH 0003				
ID1= 3 (0003):	0.15	0.015	12.00	41.50
+ ID2= 2 (0034):	0.00	0.000	0.00	0.00
ID = 1 (0003):	0.15	0.015	12.00	41.50

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0003)				
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0003):	0.15	0.015	12.00	41.50
+ ID2= 2 (0035):	2.85	0.405	12.05	73.78
ID = 3 (0003):	3.00	0.417	12.03	72.15

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

****
** SIMULATION:1.4 50Y24HSCS **
****

READ STORM	Filename: C:\Users\CAAS077425\AppData\Local\Temp\928a9435-1a45-4733-a537-3482c3d30588\50d3c3fd
Ptotal=103.68 mm	Comments: 50Y24HSCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr

0.00	1.01	6.00	2.03	12.00	21.23	18.00	1.51
0.20	1.01	6.20	2.03	12.20	13.13	18.20	1.51
0.40	1.01	6.40	2.03	12.40	9.61	18.40	1.51
0.60	1.01	6.60	2.03	12.60	9.09	18.60	1.51
0.80	1.01	6.80	2.03	12.80	6.57	18.80	1.51
1.00	1.01	7.00	2.03	13.00	5.55	19.00	1.51
1.20	1.01	7.20	2.03	13.20	5.55	19.20	1.51
1.40	1.01	7.40	2.03	13.40	5.55	19.40	1.51
1.60	1.01	7.60	2.03	13.60	5.55	19.60	1.51
1.80	1.01	7.80	2.03	13.80	5.55	19.80	1.51
2.00	1.01	8.00	3.02	14.00	3.02	20.00	1.01
2.20	1.01	8.20	3.02	14.20	3.02	20.20	1.01
2.40	1.01	8.40	3.02	14.40	3.02	20.40	1.01
2.60	1.01	8.60	3.02	14.60	3.02	20.60	1.01
2.80	1.01	8.80	3.02	14.80	3.02	20.80	1.01
3.00	1.01	9.00	3.02	15.00	3.02	21.00	1.01
3.20	1.01	9.20	3.02	15.20	3.02	21.20	1.01
3.40	1.01	9.40	3.02	15.40	3.02	21.40	1.01
3.60	1.01	9.60	3.02	15.60	3.02	21.60	1.01
3.80	1.01	9.80	3.02	15.80	3.02	21.80	1.01
4.00	2.03	10.00	6.07	16.00	2.03	22.00	1.01
4.20	2.03	10.20	6.07	16.20	2.03	22.20	1.01
4.40	2.03	10.40	6.07	16.40	2.03	22.40	1.01
4.60	2.03	10.60	6.07	16.60	2.03	22.60	1.01
4.80	2.03	10.80	6.07	16.80	2.03	22.80	1.01
5.00	2.03	11.00	8.08	17.00	2.03	23.00	1.01
5.20	2.03	11.20	11.62	17.20	2.03	23.20	1.01
5.40	2.03	11.40	26.28	17.40	2.03	23.40	1.01
5.60	2.03	11.60	57.62	17.60	2.03	23.60	1.01
5.80	2.03	11.80	120.27	17.80	2.03	23.80	1.01

CALIB	
STANDHYD (2011)	Area (ha)= 1.84
ID= 1 DT= 5.0 min	Total Imp(%)= 77.00 Dir. Conn.(%)= 77.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.42	0.42
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	110.72	40.00
Mannings n	=	0.013	0.250

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	1.01	6.083	2.03	12.083	21.24	18.08	1.51
0.167	1.01	6.167	2.03	12.167	21.23	18.17	1.51
0.250	1.01	6.250	2.03	12.250	16.37	18.25	1.51
0.333	1.01	6.333	2.03	12.333	13.13	18.33	1.51
0.417	1.01	6.417	2.03	12.417	12.43	18.42	1.51
0.500	1.01	6.500	2.03	12.500	9.61	18.50	1.51
0.583	1.01	6.583	2.03	12.583	9.61	18.58	1.51
0.667	1.01	6.667	2.03	12.667	9.19	18.67	1.51
0.750	1.01	6.750	2.03	12.750	9.09	18.75	1.51
0.833	1.01	6.833	2.03	12.833	8.08	18.83	1.51
0.917	1.01	6.917	2.03	12.917	6.57	18.92	1.51
1.000	1.01	7.000	2.03	13.000	6.57	19.00	1.51
1.083	1.01	7.083	2.03	13.083	5.55	19.08	1.51
1.167	1.01	7.167	2.03	13.167	5.55	19.17	1.51
1.250	1.01	7.250	2.03	13.250	5.55	19.25	1.51
1.333	1.01	7.333	2.03	13.333	5.55	19.33	1.51
1.417	1.01	7.417	2.03	13.417	5.55	19.42	1.51
1.500	1.01	7.500	2.03	13.500	5.55	19.50	1.51
1.583	1.01	7.583	2.03	13.583	5.55	19.58	1.51
1.667	1.01	7.667	2.03	13.667	5.55	19.67	1.51
1.750	1.01	7.750	2.03	13.750	5.55	19.75	1.51
1.833	1.01	7.833	2.03	13.833	5.55	19.83	1.51
1.917	1.01	7.917	2.03	13.917	5.55	19.92	1.51
2.000	1.01	8.000	2.03	14.000	5.55	20.00	1.51
2.083	1.01	8.083	3.02	14.083	3.02	20.08	1.01
2.167	1.01	8.167	3.02	14.167	3.02	20.17	1.01
2.250	1.01	8.250	3.02	14.250	3.02	20.25	1.01
2.333	1.01	8.333	3.02	14.333	3.02	20.33	1.01
2.417	1.01	8.417	3.02	14.417	3.02	20.42	1.01
2.500	1.01	8.500	3.02	14.500	3.02	20.50	1.01
2.583	1.01	8.583	3.02	14.583	3.02	20.58	1.01
2.667	1.01	8.667	3.02	14.667	3.02	20.67	1.01
2.750	1.01	8.750	3.02	14.750	3.02	20.75	1.01
2.833	1.01	8.833	3.02	14.833	3.02	20.83	1.01
2.917	1.01	8.917	3.02	14.917	3.02	20.92	1.01
3.000	1.01	9.000	3.02	15.000	3.02	21.00	1.01
3.083	1.01	9.083	3.02	15.083	3.02	21.08	1.01
3.167	1.01	9.167	3.02	15.167	3.02	21.17	1.01
3.250	1.01	9.250	3.02	15.250	3.02	21.25	1.01
3.333	1.01	9.333	3.02	15.333	3.02	21.33	1.01
3.417	1.01	9.417	3.02	15.417	3.02	21.42	1.01
3.500	1.01	9.500	3.02	15.500	3.02	21.50	1.01
3.583	1.01	9.583	3.02	15.583	3.02	21.58	1.01
3.667	1.01	9.667	3.02	15.667	3.02	21.67	1.01
3.750	1.01	9.750	3.02	15.750	3.02	21.75	1.01
3.833	1.01	9.833	3.02	15.833	3.02	21.83	1.01
3.917	1.01	9.917	3.02	15.917	3.02	21.92	1.01
4.000	1.01	10.000	3.02	16.000	3.02	22.00	1.01
4.083	2.03	10.083	6.07	16.083	2.03	22.08	1.01

4.167	2.03	10.167	6.07	16.167	2.03	22.17	1.01
4.250	2.03	10.250	6.07	16.250	2.03	22.25	1.01
4.333	2.03	10.333	6.07	16.333	2.03	22.33	1.01
4.417	2.03	10.417	6.07	16.417	2.03	22.42	1.01
4.500	2.03	10.500	6.07	16.500	2.03	22.50	1.01
4.583	2.03	10.583	6.07	16.583	2.03	22.58	1.01
4.667	2.03	10.667	6.07	16.667	2.03	22.67	1.01
4.750	2.03	10.750	6.07	16.750	2.03	22.75	1.01
4.833	2.03	10.833	6.07	16.833	2.03	22.83	1.01
4.917	2.03	10.917	6.07	16.917	2.03	22.92	1.01
5.000	2.03	11.000	6.07	17.000	2.03	23.00	1.01
5.083	2.03	11.083	8.08	17.083	2.03	23.08	1.01
5.167	2.03	11.167	8.08	17.167	2.03	23.17	1.01
5.250	2.03	11.250	10.20	17.250	2.03	23.25	1.01
5.333	2.03	11.333	11.62	17.333	2.03	23.33	1.01
5.417	2.03	11.417	14.55	17.417	2.03	23.42	1.01
5.500	2.03	11.500	26.28	17.500	2.03	23.50	1.01
5.583	2.03	11.583	26.28	17.583	2.03	23.58	1.01
5.667	2.03	11.667	51.35	17.667	2.03	23.67	1.01
5.750	2.03	11.750	57.62	17.750	2.03	23.75	1.01
5.833	2.03	11.833	82.67	17.833	2.03	23.83	1.01
5.917	2.03	11.917	120.27	17.917	2.03	23.92	1.01
6.000	2.03	12.000	120.27	18.000	2.03	24.00	1.01

Max.Eff.Inten.(mm/hr)=	120.27	49.63	
over (min)	5.00	10.00	
Storage Coeff. (min)=	2.52 (ii)	6.57 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.29	0.14	
			TOTALS
PEAK FLOW (cms)=	0.47	0.05	0.515 (iii)
TIME TO PEAK (hrs)=	12.00	12.00	12.00
RUNOFF VOLUME (mm)=	102.68	35.39	87.20
TOTAL RAINFALL (mm)=	103.68	103.68	103.68
RUNOFF COEFFICIENT =	0.99	0.34	0.84

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (2012)
ID= 1 DT= 1.0 min

Area (ha)= 0.23
Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.23	0.00
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.50	2.00
Length	(m)=	67.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	1.01	6.017	2.03	12.017	21.30	18.02	1.51
0.033	1.01	6.033	2.03	12.033	21.23	18.03	1.51
0.050	1.01	6.050	2.03	12.050	21.23	18.05	1.51
0.067	1.01	6.067	2.03	12.067	21.23	18.07	1.51
0.083	1.01	6.083	2.03	12.083	21.23	18.08	1.51
0.100	1.01	6.100	2.03	12.100	21.23	18.10	1.51
0.117	1.01	6.117	2.03	12.117	21.23	18.12	1.51
0.133	1.01	6.133	2.03	12.133	21.23	18.13	1.51
0.150	1.01	6.150	2.03	12.150	21.23	18.15	1.51
0.167	1.01	6.167	2.03	12.167	21.23	18.17	1.51
0.183	1.01	6.183	2.03	12.183	21.23	18.18	1.51
0.200	1.01	6.200	2.03	12.200	21.23	18.20	1.51
0.217	1.01	6.217	2.03	12.217	13.14	18.22	1.51
0.233	1.01	6.233	2.03	12.233	13.13	18.23	1.51
0.250	1.01	6.250	2.03	12.250	13.13	18.25	1.51
0.267	1.01	6.267	2.03	12.267	13.13	18.27	1.51
0.283	1.01	6.283	2.03	12.283	13.13	18.28	1.51
0.300	1.01	6.300	2.03	12.300	13.13	18.30	1.51
0.317	1.01	6.317	2.03	12.317	13.13	18.32	1.51
0.333	1.01	6.333	2.03	12.333	13.13	18.33	1.51
0.350	1.01	6.350	2.03	12.350	13.13	18.35	1.51
0.367	1.01	6.367	2.03	12.367	13.13	18.37	1.51
0.383	1.01	6.383	2.03	12.383	13.13	18.38	1.51
0.400	1.01	6.400	2.03	12.400	13.13	18.40	1.51
0.417	1.01	6.417	2.03	12.417	9.61	18.42	1.51
0.433	1.01	6.433	2.03	12.433	9.61	18.43	1.51
0.450	1.01	6.450	2.03	12.450	9.61	18.45	1.51
0.467	1.01	6.467	2.03	12.467	9.61	18.47	1.51
0.483	1.01	6.483	2.03	12.483	9.61	18.48	1.51
0.500	1.01	6.500	2.03	12.500	9.61	18.50	1.51
0.517	1.01	6.517	2.03	12.517	9.61	18.52	1.51
0.533	1.01	6.533	2.03	12.533	9.61	18.53	1.51
0.550	1.01	6.550	2.03	12.550	9.61	18.55	1.51
0.567	1.01	6.567	2.03	12.567	9.61	18.57	1.51
0.583	1.01	6.583	2.03	12.583	9.61	18.58	1.51
0.600	1.01	6.600	2.03	12.600	9.61	18.60	1.51
0.617	1.01	6.617	2.03	12.617	9.09	18.62	1.51

0.633	1.01	6.633	2.03	12.633	9.09	18.63	1.51
0.650	1.01	6.650	2.03	12.650	9.09	18.65	1.51
0.667	1.01	6.667	2.03	12.667	9.09	18.67	1.51
0.683	1.01	6.683	2.03	12.683	9.09	18.68	1.51
0.700	1.01	6.700	2.03	12.700	9.09	18.70	1.51
0.717	1.01	6.717	2.03	12.717	9.09	18.72	1.51
0.733	1.01	6.733	2.03	12.733	9.09	18.73	1.51
0.750	1.01	6.750	2.03	12.750	9.09	18.75	1.51
0.767	1.01	6.767	2.03	12.767	9.09	18.77	1.51
0.783	1.01	6.783	2.03	12.783	9.09	18.78	1.51
0.800	1.01	6.800	2.03	12.800	9.09	18.80	1.51
0.817	1.01	6.817	2.03	12.817	6.57	18.82	1.51
0.833	1.01	6.833	2.03	12.833	6.57	18.83	1.51
0.850	1.01	6.850	2.03	12.850	6.57	18.85	1.51
0.867	1.01	6.867	2.03	12.867	6.57	18.87	1.51
0.883	1.01	6.883	2.03	12.883	6.57	18.88	1.51
0.900	1.01	6.900	2.03	12.900	6.57	18.90	1.51
0.917	1.01	6.917	2.03	12.917	6.57	18.92	1.51
0.933	1.01	6.933	2.03	12.933	6.57	18.93	1.51
0.950	1.01	6.950	2.03	12.950	6.57	18.95	1.51
0.967	1.01	6.967	2.03	12.967	6.57	18.97	1.51
0.983	1.01	6.983	2.03	12.983	6.57	18.98	1.51
1.000	1.01	7.000	2.03	13.000	6.57	19.00	1.51
1.017	1.01	7.017	2.03	13.017	5.55	19.02	1.51
1.033	1.01	7.033	2.03	13.033	5.55	19.03	1.51
1.050	1.01	7.050	2.03	13.050	5.55	19.05	1.51
1.067	1.01	7.067	2.03	13.067	5.55	19.07	1.51
1.083	1.01	7.083	2.03	13.083	5.55	19.08	1.51
1.100	1.01	7.100	2.03	13.100	5.55	19.10	1.51
1.117	1.01	7.117	2.03	13.117	5.55	19.12	1.51
1.133	1.01	7.133	2.03	13.133	5.55	19.13	1.51
1.150	1.01	7.150	2.03	13.150	5.55	19.15	1.51
1.167	1.01	7.167	2.03	13.167	5.55	19.17	1.51
1.183	1.01	7.183	2.03	13.183	5.55	19.18	1.51
1.200	1.01	7.200	2.03	13.200	5.55	19.20	1.51
1.217	1.01	7.217	2.03	13.217	5.55	19.22	1.51
1.233	1.01	7.233	2.03	13.233	5.55	19.23	1.51
1.250	1.01	7.250	2.03	13.250	5.55	19.25	1.51
1.267	1.01	7.267	2.03	13.267	5.55	19.27	1.51
1.283	1.01	7.283	2.03	13.283	5.55	19.28	1.51
1.300	1.01	7.300	2.03	13.300	5.55	19.30	1.51
1.317	1.01	7.317	2.03	13.317	5.55	19.32	1.51
1.333	1.01	7.333	2.03	13.333	5.55	19.33	1.51
1.350	1.01	7.350	2.03	13.350	5.55	19.35	1.51
1.367	1.01	7.367	2.03	13.367	5.55	19.37	1.51
1.383	1.01	7.383	2.03	13.383	5.55	19.38	1.51
1.400	1.01	7.400	2.03	13.400	5.55	19.40	1.51
1.417	1.01	7.417	2.03	13.417	5.55	19.42	1.51
1.433	1.01	7.433	2.03	13.433	5.55	19.43	1.51
1.450	1.01	7.450	2.03	13.450	5.55	19.45	1.51
1.467	1.01	7.467	2.03	13.467	5.55	19.47	1.51
1.483	1.01	7.483	2.03	13.483	5.55	19.48	1.51
1.500	1.01	7.500	2.03	13.500	5.55	19.50	1.51
1.517	1.01	7.517	2.03	13.517	5.55	19.52	1.51
1.533	1.01	7.533	2.03	13.533	5.55	19.53	1.51
1.550	1.01	7.550	2.03	13.550	5.55	19.55	1.51
1.567	1.01	7.567	2.03	13.567	5.55	19.57	1.51
1.583	1.01	7.583	2.03	13.583	5.55	19.58	1.51
1.600	1.01	7.600	2.03	13.600	5.55	19.60	1.51
1.617	1.01	7.617	2.03	13.617	5.55	19.62	1.51
1.633	1.01	7.633	2.03	13.633	5.55	19.63	1.51
1.650	1.01	7.650	2.03	13.650	5.55	19.65	1.51
1.667	1.01	7.667	2.03	13.667	5.55	19.67	1.51
1.683	1.01	7.683	2.03	13.683	5.55	19.68	1.51
1.700	1.01	7.700	2.03	13.700	5.55	19.70	1.51
1.717	1.01	7.717	2.03	13.717	5.55	19.72	1.51
1.733	1.01	7.733	2.03	13.733	5.55	19.73	1.51
1.750	1.01	7.750	2.03	13.750	5.55	19.75	1.51
1.767	1.01	7.767	2.03	13.767	5.55	19.77	1.51
1.783	1.01	7.783	2.03	13.783	5.55	19.78	1.51
1.800	1.01	7.800	2.03	13.800	5.55	19.80	1.51
1.817	1.01	7.817	2.03	13.817	5.55	19.82	1.51
1.833	1.01	7.833	2.03	13.833	5.55	19.83	1.51
1.850	1.01	7.850	2.03	13.850	5.55	19.85	1.51
1.867	1.01	7.867	2.03	13.867	5.55	19.87	1.51
1.883	1.01	7.883	2.03	13.883	5.55	19.88	1.51
1.900	1.01	7.900	2.03	13.900	5.55	19.90	1.51
1.917	1.01	7.917	2.03	13.917	5.55	19.92	1.51
1.933	1.01	7.933	2.03	13.933	5.55	19.93	1.51
1.950	1.01	7.950	2.03	13.950	5.55	19.95	1.51
1.967	1.01	7.967	2.03	13.967	5.55	19.97	1.51
1.983	1.01	7.983	2.03	13.983	5.55	19.98	1.51
2.000	1.01	8.000	2.03	14.000	5.55	20.00	1.51
2.017	1.01	8.017	3.02	14.017	3.03	20.02	1.01
2.033	1.01	8.033	3.02	14.033	3.02	20.03	1.01
2.050	1.01	8.050	3.02	14.050	3.02	20.05	1.01
2.067	1.01	8.067	3.02	14.067	3.02	20.07	1.01
2.083	1.01	8.083	3.02	14.083	3.02	20.08	1.01
2.100	1.01	8.100	3.02	14.100	3.02	20.10	1.01
2.117	1.01	8.117	3.02	14.117	3.02	20.12	1.01
2.133	1.01	8.133	3.02	14.133	3.02	20.13	1.01
2.150	1.01	8.150	3.02	14.150	3.02	20.15	1.01
2.167	1.01	8.167	3.02	14.167	3.02	20.17	1.01
2.183	1.01	8.183	3.02	14.183	3.02	20.18	1.01
2.200	1.01	8.200	3.02	14.200	3.02	20.20	1.01
2.217	1.01	8.217	3.02	14.217	3.02	20.22	1.01
2.233	1.01	8.233	3.02	14.233	3.02	20.23	1.01
2.250	1.01	8.250	3.02	14.250	3.02	20.25	1.01
2.267	1.01	8.267	3.02	14.267	3.02	20.27	1.01
2.283	1.01	8.283	3.02	14.283	3.02	20.28	1.01

2.300	1.01	8.300	3.02	14.300	3.02	20.30	1.01
2.317	1.01	8.317	3.02	14.317	3.02	20.32	1.01
2.333	1.01	8.333	3.02	14.333	3.02	20.33	1.01
2.350	1.01	8.350	3.02	14.350	3.02	20.35	1.01
2.367	1.01	8.367	3.02	14.367	3.02	20.37	1.01
2.383	1.01	8.383	3.02	14.383	3.02	20.38	1.01
2.400	1.01	8.400	3.02	14.400	3.02	20.40	1.01
2.417	1.01	8.417	3.02	14.417	3.02	20.42	1.01
2.433	1.01	8.433	3.02	14.433	3.02	20.43	1.01
2.450	1.01	8.450	3.02	14.450	3.02	20.45	1.01
2.467	1.01	8.467	3.02	14.467	3.02	20.47	1.01
2.483	1.01	8.483	3.02	14.483	3.02	20.48	1.01
2.500	1.01	8.500	3.02	14.500	3.02	20.50	1.01
2.517	1.01	8.517	3.02	14.517	3.02	20.52	1.01
2.533	1.01	8.533	3.02	14.533	3.02	20.53	1.01
2.550	1.01	8.550	3.02	14.550	3.02	20.55	1.01
2.567	1.01	8.567	3.02	14.567	3.02	20.57	1.01
2.583	1.01	8.583	3.02	14.583	3.02	20.58	1.01
2.600	1.01	8.600	3.02	14.600	3.02	20.60	1.01
2.617	1.01	8.617	3.02	14.617	3.02	20.62	1.01
2.633	1.01	8.633	3.02	14.633	3.02	20.63	1.01
2.650	1.01	8.650	3.02	14.650	3.02	20.65	1.01
2.667	1.01	8.667	3.02	14.667	3.02	20.67	1.01
2.683	1.01	8.683	3.02	14.683	3.02	20.68	1.01
2.700	1.01	8.700	3.02	14.700	3.02	20.70	1.01
2.717	1.01	8.717	3.02	14.717	3.02	20.72	1.01
2.733	1.01	8.733	3.02	14.733	3.02	20.73	1.01
2.750	1.01	8.750	3.02	14.750	3.02	20.75	1.01
2.767	1.01	8.767	3.02	14.767	3.02	20.77	1.01
2.783	1.01	8.783	3.02	14.783	3.02	20.78	1.01
2.800	1.01	8.800	3.02	14.800	3.02	20.80	1.01
2.817	1.01	8.817	3.02	14.817	3.02	20.82	1.01
2.833	1.01	8.833	3.02	14.833	3.02	20.83	1.01
2.850	1.01	8.850	3.02	14.850	3.02	20.85	1.01
2.867	1.01	8.867	3.02	14.867	3.02	20.87	1.01
2.883	1.01	8.883	3.02	14.883	3.02	20.88	1.01
2.900	1.01	8.900	3.02	14.900	3.02	20.90	1.01
2.917	1.01	8.917	3.02	14.917	3.02	20.92	1.01
2.933	1.01	8.933	3.02	14.933	3.02	20.93	1.01
2.950	1.01	8.950	3.02	14.950	3.02	20.95	1.01
2.967	1.01	8.967	3.02	14.967	3.02	20.97	1.01
2.983	1.01	8.983	3.02	14.983	3.02	20.98	1.01
3.000	1.01	9.000	3.02	15.000	3.02	21.00	1.01
3.017	1.01	9.017	3.02	15.017	3.02	21.02	1.01
3.033	1.01	9.033	3.02	15.033	3.02	21.03	1.01
3.050	1.01	9.050	3.02	15.050	3.02	21.05	1.01
3.067	1.01	9.067	3.02	15.067	3.02	21.07	1.01
3.083	1.01	9.083	3.02	15.083	3.02	21.08	1.01
3.100	1.01	9.100	3.02	15.100	3.02	21.10	1.01
3.117	1.01	9.117	3.02	15.117	3.02	21.12	1.01
3.133	1.01	9.133	3.02	15.133	3.02	21.13	1.01
3.150	1.01	9.150	3.02	15.150	3.02	21.15	1.01
3.167	1.01	9.167	3.02	15.167	3.02	21.17	1.01
3.183	1.01	9.183	3.02	15.183	3.02	21.18	1.01
3.200	1.01	9.200	3.02	15.200	3.02	21.20	1.01
3.217	1.01	9.217	3.02	15.217	3.02	21.22	1.01
3.233	1.01	9.233	3.02	15.233	3.02	21.23	1.01
3.250	1.01	9.250	3.02	15.250	3.02	21.25	1.01
3.267	1.01	9.267	3.02	15.267	3.02	21.27	1.01
3.283	1.01	9.283	3.02	15.283	3.02	21.28	1.01
3.300	1.01	9.300	3.02	15.300	3.02	21.30	1.01
3.317	1.01	9.317	3.02	15.317	3.02	21.32	1.01
3.333	1.01	9.333	3.02	15.333	3.02	21.33	1.01
3.350	1.01	9.350	3.02	15.350	3.02	21.35	1.01
3.367	1.01	9.367	3.02	15.367	3.02	21.37	1.01
3.383	1.01	9.383	3.02	15.383	3.02	21.38	1.01
3.400	1.01	9.400	3.02	15.400	3.02	21.40	1.01
3.417	1.01	9.417	3.02	15.417	3.02	21.42	1.01
3.433	1.01	9.433	3.02	15.433	3.02	21.43	1.01
3.450	1.01	9.450	3.02	15.450	3.02	21.45	1.01
3.467	1.01	9.467	3.02	15.467	3.02	21.47	1.01
3.483	1.01	9.483	3.02	15.483	3.02	21.48	1.01
3.500	1.01	9.500	3.02	15.500	3.02	21.50	1.01
3.517	1.01	9.517	3.02	15.517	3.02	21.52	1.01
3.533	1.01	9.533	3.02	15.533	3.02	21.53	1.01
3.550	1.01	9.550	3.02	15.550	3.02	21.55	1.01
3.567	1.01	9.567	3.02	15.567	3.02	21.57	1.01
3.583	1.01	9.583	3.02	15.583	3.02	21.58	1.01
3.600	1.01	9.600	3.02	15.600	3.02	21.60	1.01
3.617	1.01	9.617	3.02	15.617	3.02	21.62	1.01
3.633	1.01	9.633	3.02	15.633	3.02	21.63	1.01
3.650	1.01	9.650	3.02	15.650	3.02	21.65	1.01
3.667	1.01	9.667	3.02	15.667	3.02	21.67	1.01
3.683	1.01	9.683	3.02	15.683	3.02	21.68	1.01
3.700	1.01	9.700	3.02	15.700	3.02	21.70	1.01
3.717	1.01	9.717	3.02	15.717	3.02	21.72	1.01
3.733	1.01	9.733	3.02	15.733	3.02	21.73	1.01
3.750	1.01	9.750	3.02	15.750	3.02	21.75	1.01
3.767	1.01	9.767	3.02	15.767	3.02	21.77	1.01
3.783	1.01	9.783	3.02	15.783	3.02	21.78	1.01
3.800	1.01	9.800	3.02	15.800	3.02	21.80	1.01
3.817	1.01	9.817	3.02	15.817	3.02	21.82	1.01
3.833	1.01	9.833	3.02	15.833	3.02	21.83	1.01
3.850	1.01	9.850	3.02	15.850	3.02	21.85	1.01
3.867	1.01	9.867	3.02	15.867	3.02	21.87	1.01
3.883	1.01	9.883	3.02	15.883	3.02	21.88	1.01
3.900	1.01	9.900	3.02	15.900	3.02	21.90	1.01
3.917	1.01	9.917	3.02	15.917	3.02	21.92	1.01
3.933	1.01	9.933	3.02	15.933	3.02	21.93	1.01
3.950	1.01	9.950	3.02	15.950	3.02	21.95	1.01

3.967	1.01	9.967	3.02	15.967	3.02	21.97	1.01
3.983	1.01	9.983	3.02	15.983	3.02	21.98	1.01
4.000	1.01	10.000	3.02	16.000	3.02	22.00	1.01
4.017	2.03	10.017	6.07	16.017	2.03	22.02	1.01
4.033	2.03	10.033	6.07	16.033	2.03	22.03	1.01
4.050	2.03	10.050	6.07	16.050	2.03	22.05	1.01
4.067	2.03	10.067	6.07	16.067	2.03	22.07	1.01
4.083	2.03	10.083	6.07	16.083	2.03	22.08	1.01
4.100	2.03	10.100	6.07	16.100	2.03	22.10	1.01
4.117	2.03	10.117	6.07	16.117	2.03	22.12	1.01
4.133	2.03	10.133	6.07	16.133	2.03	22.13	1.01
4.150	2.03	10.150	6.07	16.150	2.03	22.15	1.01
4.167	2.03	10.167	6.07	16.167	2.03	22.17	1.01
4.183	2.03	10.183	6.07	16.183	2.03	22.18	1.01
4.200	2.03	10.200	6.07	16.200	2.03	22.20	1.01
4.217	2.03	10.217	6.07	16.217	2.03	22.22	1.01
4.233	2.03	10.233	6.07	16.233	2.03	22.23	1.01
4.250	2.03	10.250	6.07	16.250	2.03	22.25	1.01
4.267	2.03	10.267	6.07	16.267	2.03	22.27	1.01
4.283	2.03	10.283	6.07	16.283	2.03	22.28	1.01
4.300	2.03	10.300	6.07	16.300	2.03	22.30	1.01
4.317	2.03	10.317	6.07	16.317	2.03	22.32	1.01
4.333	2.03	10.333	6.07	16.333	2.03	22.33	1.01
4.350	2.03	10.350	6.07	16.350	2.03	22.35	1.01
4.367	2.03	10.367	6.07	16.367	2.03	22.37	1.01
4.383	2.03	10.383	6.07	16.383	2.03	22.38	1.01
4.400	2.03	10.400	6.07	16.400	2.03	22.40	1.01
4.417	2.03	10.417	6.07	16.417	2.03	22.42	1.01
4.433	2.03	10.433	6.07	16.433	2.03	22.43	1.01
4.450	2.03	10.450	6.07	16.450	2.03	22.45	1.01
4.467	2.03	10.467	6.07	16.467	2.03	22.47	1.01
4.483	2.03	10.483	6.07	16.483	2.03	22.48	1.01
4.500	2.03	10.500	6.07	16.500	2.03	22.50	1.01
4.517	2.03	10.517	6.07	16.517	2.03	22.52	1.01
4.533	2.03	10.533	6.07	16.533	2.03	22.53	1.01
4.550	2.03	10.550	6.07	16.550	2.03	22.55	1.01
4.567	2.03	10.567	6.07	16.567	2.03	22.57	1.01
4.583	2.03	10.583	6.07	16.583	2.03	22.58	1.01
4.600	2.03	10.600	6.07	16.600	2.03	22.60	1.01
4.617	2.03	10.617	6.07	16.617	2.03	22.62	1.01
4.633	2.03	10.633	6.07	16.633	2.03	22.63	1.01
4.650	2.03	10.650	6.07	16.650	2.03	22.65	1.01
4.667	2.03	10.667	6.07	16.667	2.03	22.67	1.01
4.683	2.03	10.683	6.07	16.683	2.03	22.68	1.01
4.700	2.03	10.700	6.07	16.700	2.03	22.70	1.01
4.717	2.03	10.717	6.07	16.717	2.03	22.72	1.01
4.733	2.03	10.733	6.07	16.733	2.03	22.73	1.01
4.750	2.03	10.750	6.07	16.750	2.03	22.75	1.01
4.767	2.03	10.767	6.07	16.767	2.03	22.77	1.01
4.783	2.03	10.783	6.07	16.783	2.03	22.78	1.01
4.800	2.03	10.800	6.07	16.800	2.03	22.80	1.01
4.817	2.03	10.817	6.07	16.817	2.03	22.82	1.01
4.833	2.03	10.833	6.07	16.833	2.03	22.83	1.01
4.850	2.03	10.850	6.07	16.850	2.03	22.85	1.01
4.867	2.03	10.867	6.07	16.867	2.03	22.87	1.01
4.883	2.03	10.883	6.07	16.883	2.03	22.88	1.01
4.900	2.03	10.900	6.07	16.900	2.03	22.90	1.01
4.917	2.03	10.917	6.07	16.917	2.03	22.92	1.01
4.933	2.03	10.933	6.07	16.933	2.03	22.93	1.01
4.950	2.03	10.950	6.07	16.950	2.03	22.95	1.01
4.967	2.03	10.967	6.07	16.967	2.03	22.97	1.01
4.983	2.03	10.983	6.07	16.983	2.03	22.98	1.01
5.000	2.03	11.000	6.07	17.000	2.03	23.00	1.01
5.017	2.03	11.017	8.08	17.017	2.03	23.02	1.01
5.033	2.03	11.033	8.08	17.033	2.03	23.03	1.01
5.050	2.03	11.050	8.08	17.050	2.03	23.05	1.01
5.067	2.03	11.067	8.08	17.067	2.03	23.07	1.01
5.083	2.03	11.083	8.08	17.083	2.03	23.08	1.01
5.100	2.03	11.100	8.08	17.100	2.03	23.10	1.01
5.117	2.03	11.117	8.08	17.117	2.03	23.12	1.01
5.133	2.03	11.133	8.08	17.133	2.03	23.13	1.01
5.150	2.03	11.150	8.08	17.150	2.03	23.15	1.01
5.167	2.03	11.167	8.08	17.167	2.03	23.17	1.01
5.183	2.03	11.183	8.08	17.183	2.03	23.18	1.01
5.200	2.03	11.200	8.08	17.200	2.03	23.20	1.01
5.217	2.03	11.217	11.62	17.217	2.03	23.22	1.01
5.233	2.03	11.233	11.62	17.233	2.03	23.23	1.01
5.250	2.03	11.250	11.62	17.250	2.03	23.25	1.01
5.267	2.03	11.267	11.62	17.267	2.03	23.27	1.01
5.283	2.03	11.283	11.62	17.283	2.03	23.28	1.01
5.300	2.03	11.300	11.62	17.300	2.03	23.30	1.01
5.317	2.03	11.317	11.62	17.317	2.03	23.32	1.01
5.333	2.03	11.333	11.62	17.333	2.03	23.33	1.01
5.350	2.03	11.350	11.62	17.350	2.03	23.35	1.01
5.367	2.03	11.367	11.62	17.367	2.03	23.37	1.01
5.383	2.03	11.383	11.62	17.383	2.03	23.38	1.01
5.400	2.03	11.400	11.62	17.400	2.03	23.40	1.01
5.417	2.03	11.417	26.28	17.417	2.03	23.42	1.01
5.433	2.03	11.433	26.28	17.433	2.03	23.43	1.01
5.450	2.03	11.450	26.28	17.450	2.03	23.45	1.01
5.467	2.03	11.467	26.28	17.467	2.03	23.47	1.01
5.483	2.03	11.483	26.28	17.483	2.03	23.48	1.01
5.500	2.03	11.500	26.28	17.500	2.03	23.50	1.01
5.517	2.03	11.517	26.28	17.517	2.03	23.52	1.01
5.533	2.03	11.533	26.28	17.533	2.03	23.53	1.01
5.550	2.03	11.550	26.28	17.550	2.03	23.55	1.01
5.567	2.03	11.567	26.28	17.567	2.03	23.57	1.01
5.583	2.03	11.583	26.28	17.583	2.03	23.58	1.01
5.600	2.03	11.600	26.28	17.600	2.03	23.60	1.01
5.617	2.03	11.617	57.61	17.617	2.03	23.62	1.01

5.633	2.03	11.633	57.62	17.633	2.03	23.63	1.01
5.650	2.03	11.650	57.62	17.650	2.03	23.65	1.01
5.667	2.03	11.667	57.62	17.667	2.03	23.67	1.01
5.683	2.03	11.683	57.62	17.683	2.03	23.68	1.01
5.700	2.03	11.700	57.62	17.700	2.03	23.70	1.01
5.717	2.03	11.717	57.62	17.717	2.03	23.72	1.01
5.733	2.03	11.733	57.62	17.733	2.03	23.73	1.01
5.750	2.03	11.750	57.62	17.750	2.03	23.75	1.01
5.767	2.03	11.767	57.62	17.767	2.03	23.77	1.01
5.783	2.03	11.783	57.62	17.783	2.03	23.78	1.01
5.800	2.03	11.800	57.62	17.800	2.03	23.80	1.01
5.817	2.03	11.817	120.24	17.817	2.03	23.82	1.01
5.833	2.03	11.833	120.27	17.833	2.03	23.83	1.01
5.850	2.03	11.850	120.27	17.850	2.03	23.85	1.01
5.867	2.03	11.867	120.27	17.867	2.03	23.87	1.01
5.883	2.03	11.883	120.27	17.883	2.03	23.88	1.01
5.900	2.03	11.900	120.27	17.900	2.03	23.90	1.01
5.917	2.03	11.917	120.27	17.917	2.03	23.92	1.01
5.933	2.03	11.933	120.27	17.933	2.03	23.93	1.01
5.950	2.03	11.950	120.27	17.950	2.03	23.95	1.01
5.967	2.03	11.967	120.27	17.967	2.03	23.97	1.01
5.983	2.03	11.983	120.27	17.983	2.03	23.98	1.01
6.000	2.03	12.000	120.27	18.000	2.03	24.00	1.01

Max.Eff.Inten.(mm/hr)=	120.27	49.63	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.30 (ii)	3.34 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.35	0.32	
			TOTALS
PEAK FLOW (cms)=	0.07	0.00	0.075 (iii)
TIME TO PEAK (hrs)=	12.00	12.00	12.00
RUNOFF VOLUME (mm)=	102.68	35.39	102.00
TOTAL RAINFALL (mm)=	103.68	103.68	103.68
RUNOFF COEFFICIENT =	0.99	0.34	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0101)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0380	0.0061
	0.0190	0.0030	0.0570	0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.075	12.00	102.00
OUTFLOW: ID= 1 (0101)	0.229	0.037	12.08	101.83

PEAK FLOW REDUCTION [Qout/Qin](%)= 49.40
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0060

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB STANDHYD (2014) ID= 1 DT= 1.0 min	Area (ha)= 0.15 Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00		
		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.15	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	31.44	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	1.01	6.017	2.03	12.017	21.30	18.02	1.51
0.033	1.01	6.033	2.03	12.033	21.23	18.03	1.51
0.050	1.01	6.050	2.03	12.050	21.23	18.05	1.51
0.067	1.01	6.067	2.03	12.067	21.23	18.07	1.51
0.083	1.01	6.083	2.03	12.083	21.23	18.08	1.51
0.100	1.01	6.100	2.03	12.100	21.23	18.10	1.51
0.117	1.01	6.117	2.03	12.117	21.23	18.12	1.51
0.133	1.01	6.133	2.03	12.133	21.23	18.13	1.51
0.150	1.01	6.150	2.03	12.150	21.23	18.15	1.51
0.167	1.01	6.167	2.03	12.167	21.23	18.17	1.51
0.183	1.01	6.183	2.03	12.183	21.23	18.18	1.51
0.200	1.01	6.200	2.03	12.200	21.23	18.20	1.51
0.217	1.01	6.217	2.03	12.217	13.14	18.22	1.51
0.233	1.01	6.233	2.03	12.233	13.13	18.23	1.51
0.250	1.01	6.250	2.03	12.250	13.13	18.25	1.51
0.267	1.01	6.267	2.03	12.267	13.13	18.27	1.51
0.283	1.01	6.283	2.03	12.283	13.13	18.28	1.51
0.300	1.01	6.300	2.03	12.300	13.13	18.30	1.51
0.317	1.01	6.317	2.03	12.317	13.13	18.32	1.51

0.333	1.01	6.333	2.03	12.333	13.13	18.33	1.51
0.350	1.01	6.350	2.03	12.350	13.13	18.35	1.51
0.367	1.01	6.367	2.03	12.367	13.13	18.37	1.51
0.383	1.01	6.383	2.03	12.383	13.13	18.38	1.51
0.400	1.01	6.400	2.03	12.400	13.13	18.40	1.51
0.417	1.01	6.417	2.03	12.417	9.61	18.42	1.51
0.433	1.01	6.433	2.03	12.433	9.61	18.43	1.51
0.450	1.01	6.450	2.03	12.450	9.61	18.45	1.51
0.467	1.01	6.467	2.03	12.467	9.61	18.47	1.51
0.483	1.01	6.483	2.03	12.483	9.61	18.48	1.51
0.500	1.01	6.500	2.03	12.500	9.61	18.50	1.51
0.517	1.01	6.517	2.03	12.517	9.61	18.52	1.51
0.533	1.01	6.533	2.03	12.533	9.61	18.53	1.51
0.550	1.01	6.550	2.03	12.550	9.61	18.55	1.51
0.567	1.01	6.567	2.03	12.567	9.61	18.57	1.51
0.583	1.01	6.583	2.03	12.583	9.61	18.58	1.51
0.600	1.01	6.600	2.03	12.600	9.61	18.60	1.51
0.617	1.01	6.617	2.03	12.617	9.09	18.62	1.51
0.633	1.01	6.633	2.03	12.633	9.09	18.63	1.51
0.650	1.01	6.650	2.03	12.650	9.09	18.65	1.51
0.667	1.01	6.667	2.03	12.667	9.09	18.67	1.51
0.683	1.01	6.683	2.03	12.683	9.09	18.68	1.51
0.700	1.01	6.700	2.03	12.700	9.09	18.70	1.51
0.717	1.01	6.717	2.03	12.717	9.09	18.72	1.51
0.733	1.01	6.733	2.03	12.733	9.09	18.73	1.51
0.750	1.01	6.750	2.03	12.750	9.09	18.75	1.51
0.767	1.01	6.767	2.03	12.767	9.09	18.77	1.51
0.783	1.01	6.783	2.03	12.783	9.09	18.78	1.51
0.800	1.01	6.800	2.03	12.800	9.09	18.80	1.51
0.817	1.01	6.817	2.03	12.817	6.57	18.82	1.51
0.833	1.01	6.833	2.03	12.833	6.57	18.83	1.51
0.850	1.01	6.850	2.03	12.850	6.57	18.85	1.51
0.867	1.01	6.867	2.03	12.867	6.57	18.87	1.51
0.883	1.01	6.883	2.03	12.883	6.57	18.88	1.51
0.900	1.01	6.900	2.03	12.900	6.57	18.90	1.51
0.917	1.01	6.917	2.03	12.917	6.57	18.92	1.51
0.933	1.01	6.933	2.03	12.933	6.57	18.93	1.51
0.950	1.01	6.950	2.03	12.950	6.57	18.95	1.51
0.967	1.01	6.967	2.03	12.967	6.57	18.97	1.51
0.983	1.01	6.983	2.03	12.983	6.57	18.98	1.51
1.000	1.01	7.000	2.03	13.000	6.57	19.00	1.51
1.017	1.01	7.017	2.03	13.017	5.55	19.02	1.51
1.033	1.01	7.033	2.03	13.033	5.55	19.03	1.51
1.050	1.01	7.050	2.03	13.050	5.55	19.05	1.51
1.067	1.01	7.067	2.03	13.067	5.55	19.07	1.51
1.083	1.01	7.083	2.03	13.083	5.55	19.08	1.51
1.100	1.01	7.100	2.03	13.100	5.55	19.10	1.51
1.117	1.01	7.117	2.03	13.117	5.55	19.12	1.51
1.133	1.01	7.133	2.03	13.133	5.55	19.13	1.51
1.150	1.01	7.150	2.03	13.150	5.55	19.15	1.51
1.167	1.01	7.167	2.03	13.167	5.55	19.17	1.51
1.183	1.01	7.183	2.03	13.183	5.55	19.18	1.51
1.200	1.01	7.200	2.03	13.200	5.55	19.20	1.51
1.217	1.01	7.217	2.03	13.217	5.55	19.22	1.51
1.233	1.01	7.233	2.03	13.233	5.55	19.23	1.51
1.250	1.01	7.250	2.03	13.250	5.55	19.25	1.51
1.267	1.01	7.267	2.03	13.267	5.55	19.27	1.51
1.283	1.01	7.283	2.03	13.283	5.55	19.28	1.51
1.300	1.01	7.300	2.03	13.300	5.55	19.30	1.51
1.317	1.01	7.317	2.03	13.317	5.55	19.32	1.51
1.333	1.01	7.333	2.03	13.333	5.55	19.33	1.51
1.350	1.01	7.350	2.03	13.350	5.55	19.35	1.51
1.367	1.01	7.367	2.03	13.367	5.55	19.37	1.51
1.383	1.01	7.383	2.03	13.383	5.55	19.38	1.51
1.400	1.01	7.400	2.03	13.400	5.55	19.40	1.51
1.417	1.01	7.417	2.03	13.417	5.55	19.42	1.51
1.433	1.01	7.433	2.03	13.433	5.55	19.43	1.51
1.450	1.01	7.450	2.03	13.450	5.55	19.45	1.51
1.467	1.01	7.467	2.03	13.467	5.55	19.47	1.51
1.483	1.01	7.483	2.03	13.483	5.55	19.48	1.51
1.500	1.01	7.500	2.03	13.500	5.55	19.50	1.51
1.517	1.01	7.517	2.03	13.517	5.55	19.52	1.51
1.533	1.01	7.533	2.03	13.533	5.55	19.53	1.51
1.550	1.01	7.550	2.03	13.550	5.55	19.55	1.51
1.567	1.01	7.567	2.03	13.567	5.55	19.57	1.51
1.583	1.01	7.583	2.03	13.583	5.55	19.58	1.51
1.600	1.01	7.600	2.03	13.600	5.55	19.60	1.51
1.617	1.01	7.617	2.03	13.617	5.55	19.62	1.51
1.633	1.01	7.633	2.03	13.633	5.55	19.63	1.51
1.650	1.01	7.650	2.03	13.650	5.55	19.65	1.51
1.667	1.01	7.667	2.03	13.667	5.55	19.67	1.51
1.683	1.01	7.683	2.03	13.683	5.55	19.68	1.51
1.700	1.01	7.700	2.03	13.700	5.55	19.70	1.51
1.717	1.01	7.717	2.03	13.717	5.55	19.72	1.51
1.733	1.01	7.733	2.03	13.733	5.55	19.73	1.51
1.750	1.01	7.750	2.03	13.750	5.55	19.75	1.51
1.767	1.01	7.767	2.03	13.767	5.55	19.77	1.51
1.783	1.01	7.783	2.03	13.783	5.55	19.78	1.51
1.800	1.01	7.800	2.03	13.800	5.55	19.80	1.51
1.817	1.01	7.817	2.03	13.817	5.55	19.82	1.51
1.833	1.01	7.833	2.03	13.833	5.55	19.83	1.51
1.850	1.01	7.850	2.03	13.850	5.55	19.85	1.51
1.867	1.01	7.867	2.03	13.867	5.55	19.87	1.51
1.883	1.01	7.883	2.03	13.883	5.55	19.88	1.51
1.900	1.01	7.900	2.03	13.900	5.55	19.90	1.51
1.917	1.01	7.917	2.03	13.917	5.55	19.92	1.51
1.933	1.01	7.933	2.03	13.933	5.55	19.93	1.51
1.950	1.01	7.950	2.03	13.950	5.55	19.95	1.51
1.967	1.01	7.967	2.03	13.967	5.55	19.97	1.51
1.983	1.01	7.983	2.03	13.983	5.55	19.98	1.51

2.000	1.01	8.000	2.03	14.000	5.55	20.00	1.51
2.017	1.01	8.017	3.02	14.017	3.03	20.02	1.01
2.033	1.01	8.033	3.02	14.033	3.02	20.03	1.01
2.050	1.01	8.050	3.02	14.050	3.02	20.05	1.01
2.067	1.01	8.067	3.02	14.067	3.02	20.07	1.01
2.083	1.01	8.083	3.02	14.083	3.02	20.08	1.01
2.100	1.01	8.100	3.02	14.100	3.02	20.10	1.01
2.117	1.01	8.117	3.02	14.117	3.02	20.12	1.01
2.133	1.01	8.133	3.02	14.133	3.02	20.13	1.01
2.150	1.01	8.150	3.02	14.150	3.02	20.15	1.01
2.167	1.01	8.167	3.02	14.167	3.02	20.17	1.01
2.183	1.01	8.183	3.02	14.183	3.02	20.18	1.01
2.200	1.01	8.200	3.02	14.200	3.02	20.20	1.01
2.217	1.01	8.217	3.02	14.217	3.02	20.22	1.01
2.233	1.01	8.233	3.02	14.233	3.02	20.23	1.01
2.250	1.01	8.250	3.02	14.250	3.02	20.25	1.01
2.267	1.01	8.267	3.02	14.267	3.02	20.27	1.01
2.283	1.01	8.283	3.02	14.283	3.02	20.28	1.01
2.300	1.01	8.300	3.02	14.300	3.02	20.30	1.01
2.317	1.01	8.317	3.02	14.317	3.02	20.32	1.01
2.333	1.01	8.333	3.02	14.333	3.02	20.33	1.01
2.350	1.01	8.350	3.02	14.350	3.02	20.35	1.01
2.367	1.01	8.367	3.02	14.367	3.02	20.37	1.01
2.383	1.01	8.383	3.02	14.383	3.02	20.38	1.01
2.400	1.01	8.400	3.02	14.400	3.02	20.40	1.01
2.417	1.01	8.417	3.02	14.417	3.02	20.42	1.01
2.433	1.01	8.433	3.02	14.433	3.02	20.43	1.01
2.450	1.01	8.450	3.02	14.450	3.02	20.45	1.01
2.467	1.01	8.467	3.02	14.467	3.02	20.47	1.01
2.483	1.01	8.483	3.02	14.483	3.02	20.48	1.01
2.500	1.01	8.500	3.02	14.500	3.02	20.50	1.01
2.517	1.01	8.517	3.02	14.517	3.02	20.52	1.01
2.533	1.01	8.533	3.02	14.533	3.02	20.53	1.01
2.550	1.01	8.550	3.02	14.550	3.02	20.55	1.01
2.567	1.01	8.567	3.02	14.567	3.02	20.57	1.01
2.583	1.01	8.583	3.02	14.583	3.02	20.58	1.01
2.600	1.01	8.600	3.02	14.600	3.02	20.60	1.01
2.617	1.01	8.617	3.02	14.617	3.02	20.62	1.01
2.633	1.01	8.633	3.02	14.633	3.02	20.63	1.01
2.650	1.01	8.650	3.02	14.650	3.02	20.65	1.01
2.667	1.01	8.667	3.02	14.667	3.02	20.67	1.01
2.683	1.01	8.683	3.02	14.683	3.02	20.68	1.01
2.700	1.01	8.700	3.02	14.700	3.02	20.70	1.01
2.717	1.01	8.717	3.02	14.717	3.02	20.72	1.01
2.733	1.01	8.733	3.02	14.733	3.02	20.73	1.01
2.750	1.01	8.750	3.02	14.750	3.02	20.75	1.01
2.767	1.01	8.767	3.02	14.767	3.02	20.77	1.01
2.783	1.01	8.783	3.02	14.783	3.02	20.78	1.01
2.800	1.01	8.800	3.02	14.800	3.02	20.80	1.01
2.817	1.01	8.817	3.02	14.817	3.02	20.82	1.01
2.833	1.01	8.833	3.02	14.833	3.02	20.83	1.01
2.850	1.01	8.850	3.02	14.850	3.02	20.85	1.01
2.867	1.01	8.867	3.02	14.867	3.02	20.87	1.01
2.883	1.01	8.883	3.02	14.883	3.02	20.88	1.01
2.900	1.01	8.900	3.02	14.900	3.02	20.90	1.01
2.917	1.01	8.917	3.02	14.917	3.02	20.92	1.01
2.933	1.01	8.933	3.02	14.933	3.02	20.93	1.01
2.950	1.01	8.950	3.02	14.950	3.02	20.95	1.01
2.967	1.01	8.967	3.02	14.967	3.02	20.97	1.01
2.983	1.01	8.983	3.02	14.983	3.02	20.98	1.01
3.000	1.01	9.000	3.02	15.000	3.02	21.00	1.01
3.017	1.01	9.017	3.02	15.017	3.02	21.02	1.01
3.033	1.01	9.033	3.02	15.033	3.02	21.03	1.01
3.050	1.01	9.050	3.02	15.050	3.02	21.05	1.01
3.067	1.01	9.067	3.02	15.067	3.02	21.07	1.01
3.083	1.01	9.083	3.02	15.083	3.02	21.08	1.01
3.100	1.01	9.100	3.02	15.100	3.02	21.10	1.01
3.117	1.01	9.117	3.02	15.117	3.02	21.12	1.01
3.133	1.01	9.133	3.02	15.133	3.02	21.13	1.01
3.150	1.01	9.150	3.02	15.150	3.02	21.15	1.01
3.167	1.01	9.167	3.02	15.167	3.02	21.17	1.01
3.183	1.01	9.183	3.02	15.183	3.02	21.18	1.01
3.200	1.01	9.200	3.02	15.200	3.02	21.20	1.01
3.217	1.01	9.217	3.02	15.217	3.02	21.22	1.01
3.233	1.01	9.233	3.02	15.233	3.02	21.23	1.01
3.250	1.01	9.250	3.02	15.250	3.02	21.25	1.01
3.267	1.01	9.267	3.02	15.267	3.02	21.27	1.01
3.283	1.01	9.283	3.02	15.283	3.02	21.28	1.01
3.300	1.01	9.300	3.02	15.300	3.02	21.30	1.01
3.317	1.01	9.317	3.02	15.317	3.02	21.32	1.01
3.333	1.01	9.333	3.02	15.333	3.02	21.33	1.01
3.350	1.01	9.350	3.02	15.350	3.02	21.35	1.01
3.367	1.01	9.367	3.02	15.367	3.02	21.37	1.01
3.383	1.01	9.383	3.02	15.383	3.02	21.38	1.01
3.400	1.01	9.400	3.02	15.400	3.02	21.40	1.01
3.417	1.01	9.417	3.02	15.417	3.02	21.42	1.01
3.433	1.01	9.433	3.02	15.433	3.02	21.43	1.01
3.450	1.01	9.450	3.02	15.450	3.02	21.45	1.01
3.467	1.01	9.467	3.02	15.467	3.02	21.47	1.01
3.483	1.01	9.483	3.02	15.483	3.02	21.48	1.01
3.500	1.01	9.500	3.02	15.500	3.02	21.50	1.01
3.517	1.01	9.517	3.02	15.517	3.02	21.52	1.01
3.533	1.01	9.533	3.02	15.533	3.02	21.53	1.01
3.550	1.01	9.550	3.02	15.550	3.02	21.55	1.01
3.567	1.01	9.567	3.02	15.567	3.02	21.57	1.01
3.583	1.01	9.583	3.02	15.583	3.02	21.58	1.01
3.600	1.01	9.600	3.02	15.600	3.02	21.60	1.01
3.617	1.01	9.617	3.02	15.617	3.02	21.62	1.01
3.633	1.01	9.633	3.02	15.633	3.02	21.63	1.01
3.650	1.01	9.650	3.02	15.650	3.02	21.65	1.01

3.667	1.01	9.667	3.02	15.667	3.02	21.67	1.01
3.683	1.01	9.683	3.02	15.683	3.02	21.68	1.01
3.700	1.01	9.700	3.02	15.700	3.02	21.70	1.01
3.717	1.01	9.717	3.02	15.717	3.02	21.72	1.01
3.733	1.01	9.733	3.02	15.733	3.02	21.73	1.01
3.750	1.01	9.750	3.02	15.750	3.02	21.75	1.01
3.767	1.01	9.767	3.02	15.767	3.02	21.77	1.01
3.783	1.01	9.783	3.02	15.783	3.02	21.78	1.01
3.800	1.01	9.800	3.02	15.800	3.02	21.80	1.01
3.817	1.01	9.817	3.02	15.817	3.02	21.82	1.01
3.833	1.01	9.833	3.02	15.833	3.02	21.83	1.01
3.850	1.01	9.850	3.02	15.850	3.02	21.85	1.01
3.867	1.01	9.867	3.02	15.867	3.02	21.87	1.01
3.883	1.01	9.883	3.02	15.883	3.02	21.88	1.01
3.900	1.01	9.900	3.02	15.900	3.02	21.90	1.01
3.917	1.01	9.917	3.02	15.917	3.02	21.92	1.01
3.933	1.01	9.933	3.02	15.933	3.02	21.93	1.01
3.950	1.01	9.950	3.02	15.950	3.02	21.95	1.01
3.967	1.01	9.967	3.02	15.967	3.02	21.97	1.01
3.983	1.01	9.983	3.02	15.983	3.02	21.98	1.01
4.000	1.01	10.000	3.02	16.000	3.02	22.00	1.01
4.017	2.03	10.017	6.07	16.017	2.03	22.02	1.01
4.033	2.03	10.033	6.07	16.033	2.03	22.03	1.01
4.050	2.03	10.050	6.07	16.050	2.03	22.05	1.01
4.067	2.03	10.067	6.07	16.067	2.03	22.07	1.01
4.083	2.03	10.083	6.07	16.083	2.03	22.08	1.01
4.100	2.03	10.100	6.07	16.100	2.03	22.10	1.01
4.117	2.03	10.117	6.07	16.117	2.03	22.12	1.01
4.133	2.03	10.133	6.07	16.133	2.03	22.13	1.01
4.150	2.03	10.150	6.07	16.150	2.03	22.15	1.01
4.167	2.03	10.167	6.07	16.167	2.03	22.17	1.01
4.183	2.03	10.183	6.07	16.183	2.03	22.18	1.01
4.200	2.03	10.200	6.07	16.200	2.03	22.20	1.01
4.217	2.03	10.217	6.07	16.217	2.03	22.22	1.01
4.233	2.03	10.233	6.07	16.233	2.03	22.23	1.01
4.250	2.03	10.250	6.07	16.250	2.03	22.25	1.01
4.267	2.03	10.267	6.07	16.267	2.03	22.27	1.01
4.283	2.03	10.283	6.07	16.283	2.03	22.28	1.01
4.300	2.03	10.300	6.07	16.300	2.03	22.30	1.01
4.317	2.03	10.317	6.07	16.317	2.03	22.32	1.01
4.333	2.03	10.333	6.07	16.333	2.03	22.33	1.01
4.350	2.03	10.350	6.07	16.350	2.03	22.35	1.01
4.367	2.03	10.367	6.07	16.367	2.03	22.37	1.01
4.383	2.03	10.383	6.07	16.383	2.03	22.38	1.01
4.400	2.03	10.400	6.07	16.400	2.03	22.40	1.01
4.417	2.03	10.417	6.07	16.417	2.03	22.42	1.01
4.433	2.03	10.433	6.07	16.433	2.03	22.43	1.01
4.450	2.03	10.450	6.07	16.450	2.03	22.45	1.01
4.467	2.03	10.467	6.07	16.467	2.03	22.47	1.01
4.483	2.03	10.483	6.07	16.483	2.03	22.48	1.01
4.500	2.03	10.500	6.07	16.500	2.03	22.50	1.01
4.517	2.03	10.517	6.07	16.517	2.03	22.52	1.01
4.533	2.03	10.533	6.07	16.533	2.03	22.53	1.01
4.550	2.03	10.550	6.07	16.550	2.03	22.55	1.01
4.567	2.03	10.567	6.07	16.567	2.03	22.57	1.01
4.583	2.03	10.583	6.07	16.583	2.03	22.58	1.01
4.600	2.03	10.600	6.07	16.600	2.03	22.60	1.01
4.617	2.03	10.617	6.07	16.617	2.03	22.62	1.01
4.633	2.03	10.633	6.07	16.633	2.03	22.63	1.01
4.650	2.03	10.650	6.07	16.650	2.03	22.65	1.01
4.667	2.03	10.667	6.07	16.667	2.03	22.67	1.01
4.683	2.03	10.683	6.07	16.683	2.03	22.68	1.01
4.700	2.03	10.700	6.07	16.700	2.03	22.70	1.01
4.717	2.03	10.717	6.07	16.717	2.03	22.72	1.01
4.733	2.03	10.733	6.07	16.733	2.03	22.73	1.01
4.750	2.03	10.750	6.07	16.750	2.03	22.75	1.01
4.767	2.03	10.767	6.07	16.767	2.03	22.77	1.01
4.783	2.03	10.783	6.07	16.783	2.03	22.78	1.01
4.800	2.03	10.800	6.07	16.800	2.03	22.80	1.01
4.817	2.03	10.817	6.07	16.817	2.03	22.82	1.01
4.833	2.03	10.833	6.07	16.833	2.03	22.83	1.01
4.850	2.03	10.850	6.07	16.850	2.03	22.85	1.01
4.867	2.03	10.867	6.07	16.867	2.03	22.87	1.01
4.883	2.03	10.883	6.07	16.883	2.03	22.88	1.01
4.900	2.03	10.900	6.07	16.900	2.03	22.90	1.01
4.917	2.03	10.917	6.07	16.917	2.03	22.92	1.01
4.933	2.03	10.933	6.07	16.933	2.03	22.93	1.01
4.950	2.03	10.950	6.07	16.950	2.03	22.95	1.01
4.967	2.03	10.967	6.07	16.967	2.03	22.97	1.01
4.983	2.03	10.983	6.07	16.983	2.03	22.98	1.01
5.000	2.03	11.000	6.07	17.000	2.03	23.00	1.01
5.017	2.03	11.017	8.08	17.017	2.03	23.02	1.01
5.033	2.03	11.033	8.08	17.033	2.03	23.03	1.01
5.050	2.03	11.050	8.08	17.050	2.03	23.05	1.01
5.067	2.03	11.067	8.08	17.067	2.03	23.07	1.01
5.083	2.03	11.083	8.08	17.083	2.03	23.08	1.01
5.100	2.03	11.100	8.08	17.100	2.03	23.10	1.01
5.117	2.03	11.117	8.08	17.117	2.03	23.12	1.01
5.133	2.03	11.133	8.08	17.133	2.03	23.13	1.01
5.150	2.03	11.150	8.08	17.150	2.03	23.15	1.01
5.167	2.03	11.167	8.08	17.167	2.03	23.17	1.01
5.183	2.03	11.183	8.08	17.183	2.03	23.18	1.01
5.200	2.03	11.200	8.08	17.200	2.03	23.20	1.01
5.217	2.03	11.217	11.62	17.217	2.03	23.22	1.01
5.233	2.03	11.233	11.62	17.233	2.03	23.23	1.01
5.250	2.03	11.250	11.62	17.250	2.03	23.25	1.01
5.267	2.03	11.267	11.62	17.267	2.03	23.27	1.01
5.283	2.03	11.283	11.62	17.283	2.03	23.28	1.01
5.300	2.03	11.300	11.62	17.300	2.03	23.30	1.01
5.317	2.03	11.317	11.62	17.317	2.03	23.32	1.01

5.333	2.03	11.333	11.62	17.333	2.03	23.33	1.01
5.350	2.03	11.350	11.62	17.350	2.03	23.35	1.01
5.367	2.03	11.367	11.62	17.367	2.03	23.37	1.01
5.383	2.03	11.383	11.62	17.383	2.03	23.38	1.01
5.400	2.03	11.400	11.62	17.400	2.03	23.40	1.01
5.417	2.03	11.417	26.28	17.417	2.03	23.42	1.01
5.433	2.03	11.433	26.28	17.433	2.03	23.43	1.01
5.450	2.03	11.450	26.28	17.450	2.03	23.45	1.01
5.467	2.03	11.467	26.28	17.467	2.03	23.47	1.01
5.483	2.03	11.483	26.28	17.483	2.03	23.48	1.01
5.500	2.03	11.500	26.28	17.500	2.03	23.50	1.01
5.517	2.03	11.517	26.28	17.517	2.03	23.52	1.01
5.533	2.03	11.533	26.28	17.533	2.03	23.53	1.01
5.550	2.03	11.550	26.28	17.550	2.03	23.55	1.01
5.567	2.03	11.567	26.28	17.567	2.03	23.57	1.01
5.583	2.03	11.583	26.28	17.583	2.03	23.58	1.01
5.600	2.03	11.600	26.28	17.600	2.03	23.60	1.01
5.617	2.03	11.617	57.61	17.617	2.03	23.62	1.01
5.633	2.03	11.633	57.62	17.633	2.03	23.63	1.01
5.650	2.03	11.650	57.62	17.650	2.03	23.65	1.01
5.667	2.03	11.667	57.62	17.667	2.03	23.67	1.01
5.683	2.03	11.683	57.62	17.683	2.03	23.68	1.01
5.700	2.03	11.700	57.62	17.700	2.03	23.70	1.01
5.717	2.03	11.717	57.62	17.717	2.03	23.72	1.01
5.733	2.03	11.733	57.62	17.733	2.03	23.73	1.01
5.750	2.03	11.750	57.62	17.750	2.03	23.75	1.01
5.767	2.03	11.767	57.62	17.767	2.03	23.77	1.01
5.783	2.03	11.783	57.62	17.783	2.03	23.78	1.01
5.800	2.03	11.800	57.62	17.800	2.03	23.80	1.01
5.817	2.03	11.817	120.24	17.817	2.03	23.82	1.01
5.833	2.03	11.833	120.27	17.833	2.03	23.83	1.01
5.850	2.03	11.850	120.27	17.850	2.03	23.85	1.01
5.867	2.03	11.867	120.27	17.867	2.03	23.87	1.01
5.883	2.03	11.883	120.27	17.883	2.03	23.88	1.01
5.900	2.03	11.900	120.27	17.900	2.03	23.90	1.01
5.917	2.03	11.917	120.27	17.917	2.03	23.92	1.01
5.933	2.03	11.933	120.27	17.933	2.03	23.93	1.01
5.950	2.03	11.950	120.27	17.950	2.03	23.95	1.01
5.967	2.03	11.967	120.27	17.967	2.03	23.97	1.01
5.983	2.03	11.983	120.27	17.983	2.03	23.98	1.01
6.000	2.03	12.000	120.27	18.000	2.03	24.00	1.01

Max.Eff.Inten.(mm/hr)=		120.27	96.98	
over (min)		5.00	3.00	
Storage Coeff. (min)=		1.46 (ii)	2.50 (ii)	
Unit Hyd. Tpeak (min)=		5.00	3.00	
Unit Hyd. peak (cms)=		0.42	0.42	
				TOTALS
PEAK FLOW	(cms)=	0.05	0.00	0.049 (iii)
TIME TO PEAK	(hrs)=	12.00	12.00	12.00

RUNOFF VOLUME	(mm)=	102.69	71.03	102.36
TOTAL RAINFALL	(mm)=	103.68	103.68	103.68
RUNOFF COEFFICIENT	=	0.99	0.69	0.99

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0103)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0250	0.0040
	0.0130	0.0020	0.0380	0.0059

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2014)	0.148	0.049	12.00	102.36
OUTFLOW: ID= 1 (0103)	0.148	0.024	12.07	102.11

PEAK FLOW REDUCTION [Qout/Qin](%)= 49.59
TIME SHIFT OF PEAK FLOW (min)= 4.00
MAXIMUM STORAGE USED (ha.m.)= 0.0039

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB			
STANDHYD (2013)	Area (ha)= 0.31		
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00	Dir. Conn.(%)= 99.00	
	IMPERVIOUS	PERVIOUS (i)	
Surface Area	(ha)= 0.31	0.00	
Dep. Storage	(mm)= 1.00	1.50	
Average Slope	(%)= 0.50	2.00	
Length	(m)= 65.00	40.00	
Mannings n	= 0.013	0.250	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	1.01	6.017	2.03	12.017	21.30	18.02	1.51

0.033	1.01	6.033	2.03	12.033	21.23	18.03	1.51
0.050	1.01	6.050	2.03	12.050	21.23	18.05	1.51
0.067	1.01	6.067	2.03	12.067	21.23	18.07	1.51
0.083	1.01	6.083	2.03	12.083	21.23	18.08	1.51
0.100	1.01	6.100	2.03	12.100	21.23	18.10	1.51
0.117	1.01	6.117	2.03	12.117	21.23	18.12	1.51
0.133	1.01	6.133	2.03	12.133	21.23	18.13	1.51
0.150	1.01	6.150	2.03	12.150	21.23	18.15	1.51
0.167	1.01	6.167	2.03	12.167	21.23	18.17	1.51
0.183	1.01	6.183	2.03	12.183	21.23	18.18	1.51
0.200	1.01	6.200	2.03	12.200	21.23	18.20	1.51
0.217	1.01	6.217	2.03	12.217	13.14	18.22	1.51
0.233	1.01	6.233	2.03	12.233	13.13	18.23	1.51
0.250	1.01	6.250	2.03	12.250	13.13	18.25	1.51
0.267	1.01	6.267	2.03	12.267	13.13	18.27	1.51
0.283	1.01	6.283	2.03	12.283	13.13	18.28	1.51
0.300	1.01	6.300	2.03	12.300	13.13	18.30	1.51
0.317	1.01	6.317	2.03	12.317	13.13	18.32	1.51
0.333	1.01	6.333	2.03	12.333	13.13	18.33	1.51
0.350	1.01	6.350	2.03	12.350	13.13	18.35	1.51
0.367	1.01	6.367	2.03	12.367	13.13	18.37	1.51
0.383	1.01	6.383	2.03	12.383	13.13	18.38	1.51
0.400	1.01	6.400	2.03	12.400	13.13	18.40	1.51
0.417	1.01	6.417	2.03	12.417	9.61	18.42	1.51
0.433	1.01	6.433	2.03	12.433	9.61	18.43	1.51
0.450	1.01	6.450	2.03	12.450	9.61	18.45	1.51
0.467	1.01	6.467	2.03	12.467	9.61	18.47	1.51
0.483	1.01	6.483	2.03	12.483	9.61	18.48	1.51
0.500	1.01	6.500	2.03	12.500	9.61	18.50	1.51
0.517	1.01	6.517	2.03	12.517	9.61	18.52	1.51
0.533	1.01	6.533	2.03	12.533	9.61	18.53	1.51
0.550	1.01	6.550	2.03	12.550	9.61	18.55	1.51
0.567	1.01	6.567	2.03	12.567	9.61	18.57	1.51
0.583	1.01	6.583	2.03	12.583	9.61	18.58	1.51
0.600	1.01	6.600	2.03	12.600	9.61	18.60	1.51
0.617	1.01	6.617	2.03	12.617	9.09	18.62	1.51
0.633	1.01	6.633	2.03	12.633	9.09	18.63	1.51
0.650	1.01	6.650	2.03	12.650	9.09	18.65	1.51
0.667	1.01	6.667	2.03	12.667	9.09	18.67	1.51
0.683	1.01	6.683	2.03	12.683	9.09	18.68	1.51
0.700	1.01	6.700	2.03	12.700	9.09	18.70	1.51
0.717	1.01	6.717	2.03	12.717	9.09	18.72	1.51
0.733	1.01	6.733	2.03	12.733	9.09	18.73	1.51
0.750	1.01	6.750	2.03	12.750	9.09	18.75	1.51
0.767	1.01	6.767	2.03	12.767	9.09	18.77	1.51
0.783	1.01	6.783	2.03	12.783	9.09	18.78	1.51
0.800	1.01	6.800	2.03	12.800	9.09	18.80	1.51
0.817	1.01	6.817	2.03	12.817	6.57	18.82	1.51
0.833	1.01	6.833	2.03	12.833	6.57	18.83	1.51
0.850	1.01	6.850	2.03	12.850	6.57	18.85	1.51
0.867	1.01	6.867	2.03	12.867	6.57	18.87	1.51
0.883	1.01	6.883	2.03	12.883	6.57	18.88	1.51
0.900	1.01	6.900	2.03	12.900	6.57	18.90	1.51
0.917	1.01	6.917	2.03	12.917	6.57	18.92	1.51
0.933	1.01	6.933	2.03	12.933	6.57	18.93	1.51
0.950	1.01	6.950	2.03	12.950	6.57	18.95	1.51
0.967	1.01	6.967	2.03	12.967	6.57	18.97	1.51
0.983	1.01	6.983	2.03	12.983	6.57	18.98	1.51
1.000	1.01	7.000	2.03	13.000	6.57	19.00	1.51
1.017	1.01	7.017	2.03	13.017	5.55	19.02	1.51
1.033	1.01	7.033	2.03	13.033	5.55	19.03	1.51
1.050	1.01	7.050	2.03	13.050	5.55	19.05	1.51
1.067	1.01	7.067	2.03	13.067	5.55	19.07	1.51
1.083	1.01	7.083	2.03	13.083	5.55	19.08	1.51
1.100	1.01	7.100	2.03	13.100	5.55	19.10	1.51
1.117	1.01	7.117	2.03	13.117	5.55	19.12	1.51
1.133	1.01	7.133	2.03	13.133	5.55	19.13	1.51
1.150	1.01	7.150	2.03	13.150	5.55	19.15	1.51
1.167	1.01	7.167	2.03	13.167	5.55	19.17	1.51
1.183	1.01	7.183	2.03	13.183	5.55	19.18	1.51
1.200	1.01	7.200	2.03	13.200	5.55	19.20	1.51
1.217	1.01	7.217	2.03	13.217	5.55	19.22	1.51
1.233	1.01	7.233	2.03	13.233	5.55	19.23	1.51
1.250	1.01	7.250	2.03	13.250	5.55	19.25	1.51
1.267	1.01	7.267	2.03	13.267	5.55	19.27	1.51
1.283	1.01	7.283	2.03	13.283	5.55	19.28	1.51
1.300	1.01	7.300	2.03	13.300	5.55	19.30	1.51
1.317	1.01	7.317	2.03	13.317	5.55	19.32	1.51
1.333	1.01	7.333	2.03	13.333	5.55	19.33	1.51
1.350	1.01	7.350	2.03	13.350	5.55	19.35	1.51
1.367	1.01	7.367	2.03	13.367	5.55	19.37	1.51
1.383	1.01	7.383	2.03	13.383	5.55	19.38	1.51
1.400	1.01	7.400	2.03	13.400	5.55	19.40	1.51
1.417	1.01	7.417	2.03	13.417	5.55	19.42	1.51
1.433	1.01	7.433	2.03	13.433	5.55	19.43	1.51
1.450	1.01	7.450	2.03	13.450	5.55	19.45	1.51
1.467	1.01	7.467	2.03	13.467	5.55	19.47	1.51
1.483	1.01	7.483	2.03	13.483	5.55	19.48	1.51
1.500	1.01	7.500	2.03	13.500	5.55	19.50	1.51
1.517	1.01	7.517	2.03	13.517	5.55	19.52	1.51
1.533	1.01	7.533	2.03	13.533	5.55	19.53	1.51
1.550	1.01	7.550	2.03	13.550	5.55	19.55	1.51
1.567	1.01	7.567	2.03	13.567	5.55	19.57	1.51
1.583	1.01	7.583	2.03	13.583	5.55	19.58	1.51
1.600	1.01	7.600	2.03	13.600	5.55	19.60	1.51
1.617	1.01	7.617	2.03	13.617	5.55	19.62	1.51
1.633	1.01	7.633	2.03	13.633	5.55	19.63	1.51
1.650	1.01	7.650	2.03	13.650	5.55	19.65	1.51
1.667	1.01	7.667	2.03	13.667	5.55	19.67	1.51
1.683	1.01	7.683	2.03	13.683	5.55	19.68	1.51

1.700	1.01	7.700	2.03	13.700	5.55	19.70	1.51
1.717	1.01	7.717	2.03	13.717	5.55	19.72	1.51
1.733	1.01	7.733	2.03	13.733	5.55	19.73	1.51
1.750	1.01	7.750	2.03	13.750	5.55	19.75	1.51
1.767	1.01	7.767	2.03	13.767	5.55	19.77	1.51
1.783	1.01	7.783	2.03	13.783	5.55	19.78	1.51
1.800	1.01	7.800	2.03	13.800	5.55	19.80	1.51
1.817	1.01	7.817	2.03	13.817	5.55	19.82	1.51
1.833	1.01	7.833	2.03	13.833	5.55	19.83	1.51
1.850	1.01	7.850	2.03	13.850	5.55	19.85	1.51
1.867	1.01	7.867	2.03	13.867	5.55	19.87	1.51
1.883	1.01	7.883	2.03	13.883	5.55	19.88	1.51
1.900	1.01	7.900	2.03	13.900	5.55	19.90	1.51
1.917	1.01	7.917	2.03	13.917	5.55	19.92	1.51
1.933	1.01	7.933	2.03	13.933	5.55	19.93	1.51
1.950	1.01	7.950	2.03	13.950	5.55	19.95	1.51
1.967	1.01	7.967	2.03	13.967	5.55	19.97	1.51
1.983	1.01	7.983	2.03	13.983	5.55	19.98	1.51
2.000	1.01	8.000	2.03	14.000	5.55	20.00	1.51
2.017	1.01	8.017	3.02	14.017	3.03	20.02	1.01
2.033	1.01	8.033	3.02	14.033	3.02	20.03	1.01
2.050	1.01	8.050	3.02	14.050	3.02	20.05	1.01
2.067	1.01	8.067	3.02	14.067	3.02	20.07	1.01
2.083	1.01	8.083	3.02	14.083	3.02	20.08	1.01
2.100	1.01	8.100	3.02	14.100	3.02	20.10	1.01
2.117	1.01	8.117	3.02	14.117	3.02	20.12	1.01
2.133	1.01	8.133	3.02	14.133	3.02	20.13	1.01
2.150	1.01	8.150	3.02	14.150	3.02	20.15	1.01
2.167	1.01	8.167	3.02	14.167	3.02	20.17	1.01
2.183	1.01	8.183	3.02	14.183	3.02	20.18	1.01
2.200	1.01	8.200	3.02	14.200	3.02	20.20	1.01
2.217	1.01	8.217	3.02	14.217	3.02	20.22	1.01
2.233	1.01	8.233	3.02	14.233	3.02	20.23	1.01
2.250	1.01	8.250	3.02	14.250	3.02	20.25	1.01
2.267	1.01	8.267	3.02	14.267	3.02	20.27	1.01
2.283	1.01	8.283	3.02	14.283	3.02	20.28	1.01
2.300	1.01	8.300	3.02	14.300	3.02	20.30	1.01
2.317	1.01	8.317	3.02	14.317	3.02	20.32	1.01
2.333	1.01	8.333	3.02	14.333	3.02	20.33	1.01
2.350	1.01	8.350	3.02	14.350	3.02	20.35	1.01
2.367	1.01	8.367	3.02	14.367	3.02	20.37	1.01
2.383	1.01	8.383	3.02	14.383	3.02	20.38	1.01
2.400	1.01	8.400	3.02	14.400	3.02	20.40	1.01
2.417	1.01	8.417	3.02	14.417	3.02	20.42	1.01
2.433	1.01	8.433	3.02	14.433	3.02	20.43	1.01
2.450	1.01	8.450	3.02	14.450	3.02	20.45	1.01
2.467	1.01	8.467	3.02	14.467	3.02	20.47	1.01
2.483	1.01	8.483	3.02	14.483	3.02	20.48	1.01
2.500	1.01	8.500	3.02	14.500	3.02	20.50	1.01
2.517	1.01	8.517	3.02	14.517	3.02	20.52	1.01
2.533	1.01	8.533	3.02	14.533	3.02	20.53	1.01
2.550	1.01	8.550	3.02	14.550	3.02	20.55	1.01
2.567	1.01	8.567	3.02	14.567	3.02	20.57	1.01
2.583	1.01	8.583	3.02	14.583	3.02	20.58	1.01
2.600	1.01	8.600	3.02	14.600	3.02	20.60	1.01
2.617	1.01	8.617	3.02	14.617	3.02	20.62	1.01
2.633	1.01	8.633	3.02	14.633	3.02	20.63	1.01
2.650	1.01	8.650	3.02	14.650	3.02	20.65	1.01
2.667	1.01	8.667	3.02	14.667	3.02	20.67	1.01
2.683	1.01	8.683	3.02	14.683	3.02	20.68	1.01
2.700	1.01	8.700	3.02	14.700	3.02	20.70	1.01
2.717	1.01	8.717	3.02	14.717	3.02	20.72	1.01
2.733	1.01	8.733	3.02	14.733	3.02	20.73	1.01
2.750	1.01	8.750	3.02	14.750	3.02	20.75	1.01
2.767	1.01	8.767	3.02	14.767	3.02	20.77	1.01
2.783	1.01	8.783	3.02	14.783	3.02	20.78	1.01
2.800	1.01	8.800	3.02	14.800	3.02	20.80	1.01
2.817	1.01	8.817	3.02	14.817	3.02	20.82	1.01
2.833	1.01	8.833	3.02	14.833	3.02	20.83	1.01
2.850	1.01	8.850	3.02	14.850	3.02	20.85	1.01
2.867	1.01	8.867	3.02	14.867	3.02	20.87	1.01
2.883	1.01	8.883	3.02	14.883	3.02	20.88	1.01
2.900	1.01	8.900	3.02	14.900	3.02	20.90	1.01
2.917	1.01	8.917	3.02	14.917	3.02	20.92	1.01
2.933	1.01	8.933	3.02	14.933	3.02	20.93	1.01
2.950	1.01	8.950	3.02	14.950	3.02	20.95	1.01
2.967	1.01	8.967	3.02	14.967	3.02	20.97	1.01
2.983	1.01	8.983	3.02	14.983	3.02	20.98	1.01
3.000	1.01	9.000	3.02	15.000	3.02	21.00	1.01
3.017	1.01	9.017	3.02	15.017	3.02	21.02	1.01
3.033	1.01	9.033	3.02	15.033	3.02	21.03	1.01
3.050	1.01	9.050	3.02	15.050	3.02	21.05	1.01
3.067	1.01	9.067	3.02	15.067	3.02	21.07	1.01
3.083	1.01	9.083	3.02	15.083	3.02	21.08	1.01
3.100	1.01	9.100	3.02	15.100	3.02	21.10	1.01
3.117	1.01	9.117	3.02	15.117	3.02	21.12	1.01
3.133	1.01	9.133	3.02	15.133	3.02	21.13	1.01
3.150	1.01	9.150	3.02	15.150	3.02	21.15	1.01
3.167	1.01	9.167	3.02	15.167	3.02	21.17	1.01
3.183	1.01	9.183	3.02	15.183	3.02	21.18	1.01
3.200	1.01	9.200	3.02	15.200	3.02	21.20	1.01
3.217	1.01	9.217	3.02	15.217	3.02	21.22	1.01
3.233	1.01	9.233	3.02	15.233	3.02	21.23	1.01
3.250	1.01	9.250	3.02	15.250	3.02	21.25	1.01
3.267	1.01	9.267	3.02	15.267	3.02	21.27	1.01
3.283	1.01	9.283	3.02	15.283	3.02	21.28	1.01
3.300	1.01	9.300	3.02	15.300	3.02	21.30	1.01
3.317	1.01	9.317	3.02	15.317	3.02	21.32	1.01
3.333	1.01	9.333	3.02	15.333	3.02	21.33	1.01
3.350	1.01	9.350	3.02	15.350	3.02	21.35	1.01

3.367	1.01	9.367	3.02	15.367	3.02	21.37	1.01
3.383	1.01	9.383	3.02	15.383	3.02	21.38	1.01
3.400	1.01	9.400	3.02	15.400	3.02	21.40	1.01
3.417	1.01	9.417	3.02	15.417	3.02	21.42	1.01
3.433	1.01	9.433	3.02	15.433	3.02	21.43	1.01
3.450	1.01	9.450	3.02	15.450	3.02	21.45	1.01
3.467	1.01	9.467	3.02	15.467	3.02	21.47	1.01
3.483	1.01	9.483	3.02	15.483	3.02	21.48	1.01
3.500	1.01	9.500	3.02	15.500	3.02	21.50	1.01
3.517	1.01	9.517	3.02	15.517	3.02	21.52	1.01
3.533	1.01	9.533	3.02	15.533	3.02	21.53	1.01
3.550	1.01	9.550	3.02	15.550	3.02	21.55	1.01
3.567	1.01	9.567	3.02	15.567	3.02	21.57	1.01
3.583	1.01	9.583	3.02	15.583	3.02	21.58	1.01
3.600	1.01	9.600	3.02	15.600	3.02	21.60	1.01
3.617	1.01	9.617	3.02	15.617	3.02	21.62	1.01
3.633	1.01	9.633	3.02	15.633	3.02	21.63	1.01
3.650	1.01	9.650	3.02	15.650	3.02	21.65	1.01
3.667	1.01	9.667	3.02	15.667	3.02	21.67	1.01
3.683	1.01	9.683	3.02	15.683	3.02	21.68	1.01
3.700	1.01	9.700	3.02	15.700	3.02	21.70	1.01
3.717	1.01	9.717	3.02	15.717	3.02	21.72	1.01
3.733	1.01	9.733	3.02	15.733	3.02	21.73	1.01
3.750	1.01	9.750	3.02	15.750	3.02	21.75	1.01
3.767	1.01	9.767	3.02	15.767	3.02	21.77	1.01
3.783	1.01	9.783	3.02	15.783	3.02	21.78	1.01
3.800	1.01	9.800	3.02	15.800	3.02	21.80	1.01
3.817	1.01	9.817	3.02	15.817	3.02	21.82	1.01
3.833	1.01	9.833	3.02	15.833	3.02	21.83	1.01
3.850	1.01	9.850	3.02	15.850	3.02	21.85	1.01
3.867	1.01	9.867	3.02	15.867	3.02	21.87	1.01
3.883	1.01	9.883	3.02	15.883	3.02	21.88	1.01
3.900	1.01	9.900	3.02	15.900	3.02	21.90	1.01
3.917	1.01	9.917	3.02	15.917	3.02	21.92	1.01
3.933	1.01	9.933	3.02	15.933	3.02	21.93	1.01
3.950	1.01	9.950	3.02	15.950	3.02	21.95	1.01
3.967	1.01	9.967	3.02	15.967	3.02	21.97	1.01
3.983	1.01	9.983	3.02	15.983	3.02	21.98	1.01
4.000	1.01	10.000	3.02	16.000	3.02	22.00	1.01
4.017	2.03	10.017	6.07	16.017	2.03	22.02	1.01
4.033	2.03	10.033	6.07	16.033	2.03	22.03	1.01
4.050	2.03	10.050	6.07	16.050	2.03	22.05	1.01
4.067	2.03	10.067	6.07	16.067	2.03	22.07	1.01
4.083	2.03	10.083	6.07	16.083	2.03	22.08	1.01
4.100	2.03	10.100	6.07	16.100	2.03	22.10	1.01
4.117	2.03	10.117	6.07	16.117	2.03	22.12	1.01
4.133	2.03	10.133	6.07	16.133	2.03	22.13	1.01
4.150	2.03	10.150	6.07	16.150	2.03	22.15	1.01
4.167	2.03	10.167	6.07	16.167	2.03	22.17	1.01
4.183	2.03	10.183	6.07	16.183	2.03	22.18	1.01
4.200	2.03	10.200	6.07	16.200	2.03	22.20	1.01
4.217	2.03	10.217	6.07	16.217	2.03	22.22	1.01
4.233	2.03	10.233	6.07	16.233	2.03	22.23	1.01
4.250	2.03	10.250	6.07	16.250	2.03	22.25	1.01
4.267	2.03	10.267	6.07	16.267	2.03	22.27	1.01
4.283	2.03	10.283	6.07	16.283	2.03	22.28	1.01
4.300	2.03	10.300	6.07	16.300	2.03	22.30	1.01
4.317	2.03	10.317	6.07	16.317	2.03	22.32	1.01
4.333	2.03	10.333	6.07	16.333	2.03	22.33	1.01
4.350	2.03	10.350	6.07	16.350	2.03	22.35	1.01
4.367	2.03	10.367	6.07	16.367	2.03	22.37	1.01
4.383	2.03	10.383	6.07	16.383	2.03	22.38	1.01
4.400	2.03	10.400	6.07	16.400	2.03	22.40	1.01
4.417	2.03	10.417	6.07	16.417	2.03	22.42	1.01
4.433	2.03	10.433	6.07	16.433	2.03	22.43	1.01
4.450	2.03	10.450	6.07	16.450	2.03	22.45	1.01
4.467	2.03	10.467	6.07	16.467	2.03	22.47	1.01
4.483	2.03	10.483	6.07	16.483	2.03	22.48	1.01
4.500	2.03	10.500	6.07	16.500	2.03	22.50	1.01
4.517	2.03	10.517	6.07	16.517	2.03	22.52	1.01
4.533	2.03	10.533	6.07	16.533	2.03	22.53	1.01
4.550	2.03	10.550	6.07	16.550	2.03	22.55	1.01
4.567	2.03	10.567	6.07	16.567	2.03	22.57	1.01
4.583	2.03	10.583	6.07	16.583	2.03	22.58	1.01
4.600	2.03	10.600	6.07	16.600	2.03	22.60	1.01
4.617	2.03	10.617	6.07	16.617	2.03	22.62	1.01
4.633	2.03	10.633	6.07	16.633	2.03	22.63	1.01
4.650	2.03	10.650	6.07	16.650	2.03	22.65	1.01
4.667	2.03	10.667	6.07	16.667	2.03	22.67	1.01
4.683	2.03	10.683	6.07	16.683	2.03	22.68	1.01
4.700	2.03	10.700	6.07	16.700	2.03	22.70	1.01
4.717	2.03	10.717	6.07	16.717	2.03	22.72	1.01
4.733	2.03	10.733	6.07	16.733	2.03	22.73	1.01
4.750	2.03	10.750	6.07	16.750	2.03	22.75	1.01
4.767	2.03	10.767	6.07	16.767	2.03	22.77	1.01
4.783	2.03	10.783	6.07	16.783	2.03	22.78	1.01
4.800	2.03	10.800	6.07	16.800	2.03	22.80	1.01
4.817	2.03	10.817	6.07	16.817	2.03	22.82	1.01
4.833	2.03	10.833	6.07	16.833	2.03	22.83	1.01
4.850	2.03	10.850	6.07	16.850	2.03	22.85	1.01
4.867	2.03	10.867	6.07	16.867	2.03	22.87	1.01
4.883	2.03	10.883	6.07	16.883	2.03	22.88	1.01
4.900	2.03	10.900	6.07	16.900	2.03	22.90	1.01
4.917	2.03	10.917	6.07	16.917	2.03	22.92	1.01
4.933	2.03	10.933	6.07	16.933	2.03	22.93	1.01
4.950	2.03	10.950	6.07	16.950	2.03	22.95	1.01
4.967	2.03	10.967	6.07	16.967	2.03	22.97	1.01
4.983	2.03	10.983	6.07	16.983	2.03	22.98	1.01
5.000	2.03	11.000	6.07	17.000	2.03	23.00	1.01
5.017	2.03	11.017	8.08	17.017	2.03	23.02	1.01

5.033	2.03	11.033	8.08	17.033	2.03	23.03	1.01
5.050	2.03	11.050	8.08	17.050	2.03	23.05	1.01
5.067	2.03	11.067	8.08	17.067	2.03	23.07	1.01
5.083	2.03	11.083	8.08	17.083	2.03	23.08	1.01
5.100	2.03	11.100	8.08	17.100	2.03	23.10	1.01
5.117	2.03	11.117	8.08	17.117	2.03	23.12	1.01
5.133	2.03	11.133	8.08	17.133	2.03	23.13	1.01
5.150	2.03	11.150	8.08	17.150	2.03	23.15	1.01
5.167	2.03	11.167	8.08	17.167	2.03	23.17	1.01
5.183	2.03	11.183	8.08	17.183	2.03	23.18	1.01
5.200	2.03	11.200	8.08	17.200	2.03	23.20	1.01
5.217	2.03	11.217	11.62	17.217	2.03	23.22	1.01
5.233	2.03	11.233	11.62	17.233	2.03	23.23	1.01
5.250	2.03	11.250	11.62	17.250	2.03	23.25	1.01
5.267	2.03	11.267	11.62	17.267	2.03	23.27	1.01
5.283	2.03	11.283	11.62	17.283	2.03	23.28	1.01
5.300	2.03	11.300	11.62	17.300	2.03	23.30	1.01
5.317	2.03	11.317	11.62	17.317	2.03	23.32	1.01
5.333	2.03	11.333	11.62	17.333	2.03	23.33	1.01
5.350	2.03	11.350	11.62	17.350	2.03	23.35	1.01
5.367	2.03	11.367	11.62	17.367	2.03	23.37	1.01
5.383	2.03	11.383	11.62	17.383	2.03	23.38	1.01
5.400	2.03	11.400	11.62	17.400	2.03	23.40	1.01
5.417	2.03	11.417	26.28	17.417	2.03	23.42	1.01
5.433	2.03	11.433	26.28	17.433	2.03	23.43	1.01
5.450	2.03	11.450	26.28	17.450	2.03	23.45	1.01
5.467	2.03	11.467	26.28	17.467	2.03	23.47	1.01
5.483	2.03	11.483	26.28	17.483	2.03	23.48	1.01
5.500	2.03	11.500	26.28	17.500	2.03	23.50	1.01
5.517	2.03	11.517	26.28	17.517	2.03	23.52	1.01
5.533	2.03	11.533	26.28	17.533	2.03	23.53	1.01
5.550	2.03	11.550	26.28	17.550	2.03	23.55	1.01
5.567	2.03	11.567	26.28	17.567	2.03	23.57	1.01
5.583	2.03	11.583	26.28	17.583	2.03	23.58	1.01
5.600	2.03	11.600	26.28	17.600	2.03	23.60	1.01
5.617	2.03	11.617	57.61	17.617	2.03	23.62	1.01
5.633	2.03	11.633	57.62	17.633	2.03	23.63	1.01
5.650	2.03	11.650	57.62	17.650	2.03	23.65	1.01
5.667	2.03	11.667	57.62	17.667	2.03	23.67	1.01
5.683	2.03	11.683	57.62	17.683	2.03	23.68	1.01
5.700	2.03	11.700	57.62	17.700	2.03	23.70	1.01
5.717	2.03	11.717	57.62	17.717	2.03	23.72	1.01
5.733	2.03	11.733	57.62	17.733	2.03	23.73	1.01
5.750	2.03	11.750	57.62	17.750	2.03	23.75	1.01
5.767	2.03	11.767	57.62	17.767	2.03	23.77	1.01
5.783	2.03	11.783	57.62	17.783	2.03	23.78	1.01
5.800	2.03	11.800	57.62	17.800	2.03	23.80	1.01
5.817	2.03	11.817	120.24	17.817	2.03	23.82	1.01
5.833	2.03	11.833	120.27	17.833	2.03	23.83	1.01
5.850	2.03	11.850	120.27	17.850	2.03	23.85	1.01
5.867	2.03	11.867	120.27	17.867	2.03	23.87	1.01
5.883	2.03	11.883	120.27	17.883	2.03	23.88	1.01
5.900	2.03	11.900	120.27	17.900	2.03	23.90	1.01
5.917	2.03	11.917	120.27	17.917	2.03	23.92	1.01
5.933	2.03	11.933	120.27	17.933	2.03	23.93	1.01
5.950	2.03	11.950	120.27	17.950	2.03	23.95	1.01
5.967	2.03	11.967	120.27	17.967	2.03	23.97	1.01
5.983	2.03	11.983	120.27	17.983	2.03	23.98	1.01
6.000	2.03	12.000	120.27	18.000	2.03	24.00	1.01

Max.Eff.Inten.(mm/hr)=	120.27	96.98	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.26 (ii)	3.30 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.35	0.32	
			TOTALS
PEAK FLOW (cms)=	0.10	0.00	0.102 (iii)
TIME TO PEAK (hrs)=	12.00	12.00	12.00
RUNOFF VOLUME (mm)=	102.68	71.03	102.36
TOTAL RAINFALL (mm)=	103.68	103.68	103.68
RUNOFF COEFFICIENT =	0.99	0.69	0.99

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0102)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0440	0.0083
	0.0220	0.0041	0.0660	0.0124

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2013)	0.310	0.102	12.00	102.36
OUTFLOW: ID= 1 (0102)	0.310	0.046	12.08	102.21

PEAK FLOW REDUCTION [Qout/Qin](%)= 45.18
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0087

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

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--------------------
| ADD HYD  (  0001)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
        ID1= 1 (  0101):     0.23   0.037    12.08   101.83
      + ID2= 2 (  0102):     0.31   0.046    12.08   102.21
        ================================================
        ID = 3 (  0001):     0.54   0.083    12.08   102.05

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------


--------------------
| ADD HYD  (  0001)|
|   3 +  2 =  1    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
        ID1= 3 (  0001):     0.54   0.083    12.08   102.05
      + ID2= 2 (  0103):     0.15   0.024    12.07   102.11
        ================================================
        ID = 1 (  0001):     0.69   0.108    12.08   102.06

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0204)|   Area    (ha)=   0.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  55.00   Dir. Conn.(%)=  55.00
--------------------
                            IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.18         0.15
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      46.60        40.00
     Mannings n           =      0.013        0.250

         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     1.01 | 6.083     2.03 |12.083    21.24 | 18.08     1.51
              0.167     1.01 | 6.167     2.03 |12.167    21.23 | 18.17     1.51
              0.250     1.01 | 6.250     2.03 |12.250    16.37 | 18.25     1.51
              0.333     1.01 | 6.333     2.03 |12.333    13.13 | 18.33     1.51
              0.417     1.01 | 6.417     2.03 |12.417    12.43 | 18.42     1.51
              0.500     1.01 | 6.500     2.03 |12.500     9.61 | 18.50     1.51
              0.583     1.01 | 6.583     2.03 |12.583     9.61 | 18.58     1.51
              0.667     1.01 | 6.667     2.03 |12.667     9.19 | 18.67     1.51
              0.750     1.01 | 6.750     2.03 |12.750     9.09 | 18.75     1.51
              0.833     1.01 | 6.833     2.03 |12.833     8.08 | 18.83     1.51
              0.917     1.01 | 6.917     2.03 |12.917     6.57 | 18.92     1.51
              1.000     1.01 | 7.000     2.03 |13.000     6.57 | 19.00     1.51
              1.083     1.01 | 7.083     2.03 |13.083     5.55 | 19.08     1.51
              1.167     1.01 | 7.167     2.03 |13.167     5.55 | 19.17     1.51
              1.250     1.01 | 7.250     2.03 |13.250     5.55 | 19.25     1.51
              1.333     1.01 | 7.333     2.03 |13.333     5.55 | 19.33     1.51
              1.417     1.01 | 7.417     2.03 |13.417     5.55 | 19.42     1.51
              1.500     1.01 | 7.500     2.03 |13.500     5.55 | 19.50     1.51
              1.583     1.01 | 7.583     2.03 |13.583     5.55 | 19.58     1.51
              1.667     1.01 | 7.667     2.03 |13.667     5.55 | 19.67     1.51
              1.750     1.01 | 7.750     2.03 |13.750     5.55 | 19.75     1.51
              1.833     1.01 | 7.833     2.03 |13.833     5.55 | 19.83     1.51
              1.917     1.01 | 7.917     2.03 |13.917     5.55 | 19.92     1.51
              2.000     1.01 | 8.000     2.03 |14.000     5.55 | 20.00     1.51
              2.083     1.01 | 8.083     3.02 |14.083     3.02 | 20.08     1.01
              2.167     1.01 | 8.167     3.02 |14.167     3.02 | 20.17     1.01
              2.250     1.01 | 8.250     3.02 |14.250     3.02 | 20.25     1.01
              2.333     1.01 | 8.333     3.02 |14.333     3.02 | 20.33     1.01
              2.417     1.01 | 8.417     3.02 |14.417     3.02 | 20.42     1.01
              2.500     1.01 | 8.500     3.02 |14.500     3.02 | 20.50     1.01
              2.583     1.01 | 8.583     3.02 |14.583     3.02 | 20.58     1.01
              2.667     1.01 | 8.667     3.02 |14.667     3.02 | 20.67     1.01
              2.750     1.01 | 8.750     3.02 |14.750     3.02 | 20.75     1.01
              2.833     1.01 | 8.833     3.02 |14.833     3.02 | 20.83     1.01
              2.917     1.01 | 8.917     3.02 |14.917     3.02 | 20.92     1.01
              3.000     1.01 | 9.000     3.02 |15.000     3.02 | 21.00     1.01
              3.083     1.01 | 9.083     3.02 |15.083     3.02 | 21.08     1.01
              3.167     1.01 | 9.167     3.02 |15.167     3.02 | 21.17     1.01
              3.250     1.01 | 9.250     3.02 |15.250     3.02 | 21.25     1.01
              3.333     1.01 | 9.333     3.02 |15.333     3.02 | 21.33     1.01
              3.417     1.01 | 9.417     3.02 |15.417     3.02 | 21.42     1.01
              3.500     1.01 | 9.500     3.02 |15.500     3.02 | 21.50     1.01
              3.583     1.01 | 9.583     3.02 |15.583     3.02 | 21.58     1.01
              3.667     1.01 | 9.667     3.02 |15.667     3.02 | 21.67     1.01
              3.750     1.01 | 9.750     3.02 |15.750     3.02 | 21.75     1.01
              3.833     1.01 | 9.833     3.02 |15.833     3.02 | 21.83     1.01
              3.917     1.01 | 9.917     3.02 |15.917     3.02 | 21.92     1.01
              4.000     1.01 |10.000     3.02 |16.000     3.02 | 22.00     1.01
              4.083     2.03 |10.083     6.07 |16.083     2.03 | 22.08     1.01
              4.167     2.03 |10.167     6.07 |16.167     2.03 | 22.17     1.01
              4.250     2.03 |10.250     6.07 |16.250     2.03 | 22.25     1.01
              4.333     2.03 |10.333     6.07 |16.333     2.03 | 22.33     1.01
              4.417     2.03 |10.417     6.07 |16.417     2.03 | 22.42     1.01
              4.500     2.03 |10.500     6.07 |16.500     2.03 | 22.50     1.01
              4.583     2.03 |10.583     6.07 |16.583     2.03 | 22.58     1.01
              4.667     2.03 |10.667     6.07 |16.667     2.03 | 22.67     1.01
              4.750     2.03 |10.750     6.07 |16.750     2.03 | 22.75     1.01
              4.833     2.03 |10.833     6.07 |16.833     2.03 | 22.83     1.01
              4.917     2.03 |10.917     6.07 |16.917     2.03 | 22.92     1.01
```

5.000	2.03	11.000	6.07	17.000	2.03	23.00	1.01
5.083	2.03	11.083	8.08	17.083	2.03	23.08	1.01
5.167	2.03	11.167	8.08	17.167	2.03	23.17	1.01
5.250	2.03	11.250	10.20	17.250	2.03	23.25	1.01
5.333	2.03	11.333	11.62	17.333	2.03	23.33	1.01
5.417	2.03	11.417	14.55	17.417	2.03	23.42	1.01
5.500	2.03	11.500	26.28	17.500	2.03	23.50	1.01
5.583	2.03	11.583	26.28	17.583	2.03	23.58	1.01
5.667	2.03	11.667	51.35	17.667	2.03	23.67	1.01
5.750	2.03	11.750	57.62	17.750	2.03	23.75	1.01
5.833	2.03	11.833	82.67	17.833	2.03	23.83	1.01
5.917	2.03	11.917	120.27	17.917	2.03	23.92	1.01
6.000	2.03	12.000	120.27	18.000	2.03	24.00	1.01

			TOTALS
Max.Eff.Inten.(mm/hr)=	120.27	49.63	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.50 (ii)	10.84 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.33	0.09	
PEAK FLOW (cms)=	0.06	0.01	0.070 (iii)
TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	102.68	35.39	72.38
TOTAL RAINFALL (mm)=	103.68	103.68	103.68
RUNOFF COEFFICIENT =	0.99	0.34	0.70

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0002)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0001):		0.69	0.108	12.08	102.06
+ ID2= 2 (2011):		1.84	0.515	12.00	87.20
ID = 3 (0002):		2.53	0.610	12.00	91.24

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0002)		AREA	QPEAK	TPEAK	R.V.
3 + 2 = 1		(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0002):		2.53	0.610	12.00	91.24
+ ID2= 2 (0204):		0.33	0.070	12.00	72.38
ID = 1 (0002):		2.85	0.680	12.00	89.09

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CHAMBER(0025)	OUTFLOW: ON, UNDERDRAIN: OFF, INFIL: OFF
IN= 2--> OUT= 3	CHAMBER:
DT= 5.0 min	MAX STO VOL (cu.m.)= 710.04 Bottom Area(m2) = 614.46

DEPTH (mm)	STORAGE (cu.m.)	DEPTH (mm)	STORAGE (cu.m.)
0.00	0.00	864.00	430.26
25.00	13.40	889.00	441.69
51.00	26.76	914.00	453.02
76.00	40.09	940.00	464.23
102.00	53.40	965.00	475.34
127.00	66.68	991.00	486.32
152.00	79.92	1016.00	497.18
178.00	93.14	1041.00	507.92
203.00	106.32	1067.00	518.52
229.00	119.46	1092.00	528.98
254.00	132.57	1118.00	539.29
279.00	145.64	1143.00	549.44
305.00	158.66	1168.00	559.43
330.00	171.65	1194.00	569.25
356.00	184.58	1219.00	578.88
381.00	197.47	1245.00	588.32
406.00	210.31	1270.00	597.54
432.00	223.09	1295.00	606.52
457.00	235.83	1321.00	615.24
483.00	248.51	1346.00	623.67
508.00	261.13	1372.00	631.72
533.00	273.68	1397.00	639.20
559.00	286.18	1422.00	646.18
584.00	298.61	1448.00	653.00
610.00	310.97	1473.00	659.69
635.00	323.26	1499.00	666.24
660.00	335.48	1524.00	672.59
686.00	347.62	1549.00	678.83
711.00	359.68	1575.00	685.08
737.00	371.67	1600.00	691.32
762.00	383.57	1626.00	697.56
787.00	395.38	1651.00	703.80
813.00	407.10	1676.00	710.04
838.00	418.73	0.00	0.00

DEPTH (m)	DISCHARGE (cms)	DEPTH (m)	DISCHARGE (cms)
0.000	0.000	1.255	0.504
0.455	0.000	1.355	0.535
0.555	0.178	1.455	0.564
0.655	0.252	1.555	0.591
0.755	0.309	1.655	0.617
0.855	0.356	1.755	0.643
0.955	0.399	1.855	0.667
1.055	0.437	1.955	0.690
1.155	0.472	2.055	0.713

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW:ID= 2	2.85	0.680	12.00	89.09
OUTFLOW:ID= 1	2.85	0.445	12.05	80.85
OVERFLOW:ID= 3	0.00	0.000	0.00	0.00

Volume Reduction Rate[(RVin-RVout)/RVin](%)= 9.24
Time to reach Max storage (Hr)= 12.05
Volume of water for drawdown in LID (cu.m.)= 234.86
Volume of maximum water storage (cu.m.)= 496.63
***** After simulation, water volume is not zero.

Junction Command(0034)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

Junction Command(0035)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.45	12.05	80.85
OUTFLOW: ID= 2(0035)	2.85	0.45	12.05	80.85

CALIB STANDHYD (0202) ID= 1 DT= 5.0 min	Area (ha)= 0.10 Total Imp(%)= 11.00 Dir. Conn.(%)= 11.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.01	0.09
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	25.66	40.00
Mannings n =	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	1.01	6.083	2.03	12.083	21.24	18.08	1.51
0.167	1.01	6.167	2.03	12.167	21.23	18.17	1.51
0.250	1.01	6.250	2.03	12.250	16.37	18.25	1.51
0.333	1.01	6.333	2.03	12.333	13.13	18.33	1.51
0.417	1.01	6.417	2.03	12.417	12.43	18.42	1.51
0.500	1.01	6.500	2.03	12.500	9.61	18.50	1.51
0.583	1.01	6.583	2.03	12.583	9.61	18.58	1.51
0.667	1.01	6.667	2.03	12.667	9.19	18.67	1.51
0.750	1.01	6.750	2.03	12.750	9.09	18.75	1.51
0.833	1.01	6.833	2.03	12.833	8.08	18.83	1.51
0.917	1.01	6.917	2.03	12.917	6.57	18.92	1.51
1.000	1.01	7.000	2.03	13.000	6.57	19.00	1.51
1.083	1.01	7.083	2.03	13.083	5.55	19.08	1.51
1.167	1.01	7.167	2.03	13.167	5.55	19.17	1.51
1.250	1.01	7.250	2.03	13.250	5.55	19.25	1.51
1.333	1.01	7.333	2.03	13.333	5.55	19.33	1.51
1.417	1.01	7.417	2.03	13.417	5.55	19.42	1.51
1.500	1.01	7.500	2.03	13.500	5.55	19.50	1.51
1.583	1.01	7.583	2.03	13.583	5.55	19.58	1.51
1.667	1.01	7.667	2.03	13.667	5.55	19.67	1.51
1.750	1.01	7.750	2.03	13.750	5.55	19.75	1.51
1.833	1.01	7.833	2.03	13.833	5.55	19.83	1.51
1.917	1.01	7.917	2.03	13.917	5.55	19.92	1.51
2.000	1.01	8.000	2.03	14.000	5.55	20.00	1.51
2.083	1.01	8.083	3.02	14.083	3.02	20.08	1.01
2.167	1.01	8.167	3.02	14.167	3.02	20.17	1.01
2.250	1.01	8.250	3.02	14.250	3.02	20.25	1.01
2.333	1.01	8.333	3.02	14.333	3.02	20.33	1.01
2.417	1.01	8.417	3.02	14.417	3.02	20.42	1.01
2.500	1.01	8.500	3.02	14.500	3.02	20.50	1.01
2.583	1.01	8.583	3.02	14.583	3.02	20.58	1.01
2.667	1.01	8.667	3.02	14.667	3.02	20.67	1.01
2.750	1.01	8.750	3.02	14.750	3.02	20.75	1.01
2.833	1.01	8.833	3.02	14.833	3.02	20.83	1.01
2.917	1.01	8.917	3.02	14.917	3.02	20.92	1.01
3.000	1.01	9.000	3.02	15.000	3.02	21.00	1.01

3.083	1.01	9.083	3.02	15.083	3.02	21.08	1.01
3.167	1.01	9.167	3.02	15.167	3.02	21.17	1.01
3.250	1.01	9.250	3.02	15.250	3.02	21.25	1.01
3.333	1.01	9.333	3.02	15.333	3.02	21.33	1.01
3.417	1.01	9.417	3.02	15.417	3.02	21.42	1.01
3.500	1.01	9.500	3.02	15.500	3.02	21.50	1.01
3.583	1.01	9.583	3.02	15.583	3.02	21.58	1.01
3.667	1.01	9.667	3.02	15.667	3.02	21.67	1.01
3.750	1.01	9.750	3.02	15.750	3.02	21.75	1.01
3.833	1.01	9.833	3.02	15.833	3.02	21.83	1.01
3.917	1.01	9.917	3.02	15.917	3.02	21.92	1.01
4.000	1.01	10.000	3.02	16.000	3.02	22.00	1.01
4.083	2.03	10.083	6.07	16.083	2.03	22.08	1.01
4.167	2.03	10.167	6.07	16.167	2.03	22.17	1.01
4.250	2.03	10.250	6.07	16.250	2.03	22.25	1.01
4.333	2.03	10.333	6.07	16.333	2.03	22.33	1.01
4.417	2.03	10.417	6.07	16.417	2.03	22.42	1.01
4.500	2.03	10.500	6.07	16.500	2.03	22.50	1.01
4.583	2.03	10.583	6.07	16.583	2.03	22.58	1.01
4.667	2.03	10.667	6.07	16.667	2.03	22.67	1.01
4.750	2.03	10.750	6.07	16.750	2.03	22.75	1.01
4.833	2.03	10.833	6.07	16.833	2.03	22.83	1.01
4.917	2.03	10.917	6.07	16.917	2.03	22.92	1.01
5.000	2.03	11.000	6.07	17.000	2.03	23.00	1.01
5.083	2.03	11.083	8.08	17.083	2.03	23.08	1.01
5.167	2.03	11.167	8.08	17.167	2.03	23.17	1.01
5.250	2.03	11.250	10.20	17.250	2.03	23.25	1.01
5.333	2.03	11.333	11.62	17.333	2.03	23.33	1.01
5.417	2.03	11.417	14.55	17.417	2.03	23.42	1.01
5.500	2.03	11.500	26.28	17.500	2.03	23.50	1.01
5.583	2.03	11.583	26.28	17.583	2.03	23.58	1.01
5.667	2.03	11.667	51.35	17.667	2.03	23.67	1.01
5.750	2.03	11.750	57.62	17.750	2.03	23.75	1.01
5.833	2.03	11.833	82.67	17.833	2.03	23.83	1.01
5.917	2.03	11.917	120.27	17.917	2.03	23.92	1.01
6.000	2.03	12.000	120.27	18.000	2.03	24.00	1.01

Max.Eff.Inten.(mm/hr)=	120.27	49.63	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.05 (ii)	10.39 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.34	0.09	
			TOTALS
PEAK FLOW (cms)=	0.00	0.01	0.010 (iii)
TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	102.68	35.39	42.74
TOTAL RAINFALL (mm)=	103.68	103.68	103.68
RUNOFF COEFFICIENT =	0.99	0.34	0.41

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0203)	Area (ha)=	0.05	
ID= 1 DT= 5.0 min	Total Imp(%)=	27.00	Dir. Conn.(%)= 27.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.04
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	18.90	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	1.01	6.083	2.03	12.083	21.24	18.08	1.51
0.167	1.01	6.167	2.03	12.167	21.23	18.17	1.51
0.250	1.01	6.250	2.03	12.250	16.37	18.25	1.51
0.333	1.01	6.333	2.03	12.333	13.13	18.33	1.51
0.417	1.01	6.417	2.03	12.417	12.43	18.42	1.51
0.500	1.01	6.500	2.03	12.500	9.61	18.50	1.51
0.583	1.01	6.583	2.03	12.583	9.61	18.58	1.51
0.667	1.01	6.667	2.03	12.667	9.19	18.67	1.51
0.750	1.01	6.750	2.03	12.750	9.09	18.75	1.51
0.833	1.01	6.833	2.03	12.833	8.08	18.83	1.51
0.917	1.01	6.917	2.03	12.917	6.57	18.92	1.51
1.000	1.01	7.000	2.03	13.000	6.57	19.00	1.51
1.083	1.01	7.083	2.03	13.083	5.55	19.08	1.51
1.167	1.01	7.167	2.03	13.167	5.55	19.17	1.51
1.250	1.01	7.250	2.03	13.250	5.55	19.25	1.51
1.333	1.01	7.333	2.03	13.333	5.55	19.33	1.51
1.417	1.01	7.417	2.03	13.417	5.55	19.42	1.51
1.500	1.01	7.500	2.03	13.500	5.55	19.50	1.51
1.583	1.01	7.583	2.03	13.583	5.55	19.58	1.51
1.667	1.01	7.667	2.03	13.667	5.55	19.67	1.51
1.750	1.01	7.750	2.03	13.750	5.55	19.75	1.51
1.833	1.01	7.833	2.03	13.833	5.55	19.83	1.51

1.917	1.01	7.917	2.03	13.917	5.55	19.92	1.51
2.000	1.01	8.000	2.03	14.000	5.55	20.00	1.51
2.083	1.01	8.083	3.02	14.083	3.02	20.08	1.01
2.167	1.01	8.167	3.02	14.167	3.02	20.17	1.01
2.250	1.01	8.250	3.02	14.250	3.02	20.25	1.01
2.333	1.01	8.333	3.02	14.333	3.02	20.33	1.01
2.417	1.01	8.417	3.02	14.417	3.02	20.42	1.01
2.500	1.01	8.500	3.02	14.500	3.02	20.50	1.01
2.583	1.01	8.583	3.02	14.583	3.02	20.58	1.01
2.667	1.01	8.667	3.02	14.667	3.02	20.67	1.01
2.750	1.01	8.750	3.02	14.750	3.02	20.75	1.01
2.833	1.01	8.833	3.02	14.833	3.02	20.83	1.01
2.917	1.01	8.917	3.02	14.917	3.02	20.92	1.01
3.000	1.01	9.000	3.02	15.000	3.02	21.00	1.01
3.083	1.01	9.083	3.02	15.083	3.02	21.08	1.01
3.167	1.01	9.167	3.02	15.167	3.02	21.17	1.01
3.250	1.01	9.250	3.02	15.250	3.02	21.25	1.01
3.333	1.01	9.333	3.02	15.333	3.02	21.33	1.01
3.417	1.01	9.417	3.02	15.417	3.02	21.42	1.01
3.500	1.01	9.500	3.02	15.500	3.02	21.50	1.01
3.583	1.01	9.583	3.02	15.583	3.02	21.58	1.01
3.667	1.01	9.667	3.02	15.667	3.02	21.67	1.01
3.750	1.01	9.750	3.02	15.750	3.02	21.75	1.01
3.833	1.01	9.833	3.02	15.833	3.02	21.83	1.01
3.917	1.01	9.917	3.02	15.917	3.02	21.92	1.01
4.000	1.01	10.000	3.02	16.000	3.02	22.00	1.01
4.083	2.03	10.083	6.07	16.083	2.03	22.08	1.01
4.167	2.03	10.167	6.07	16.167	2.03	22.17	1.01
4.250	2.03	10.250	6.07	16.250	2.03	22.25	1.01
4.333	2.03	10.333	6.07	16.333	2.03	22.33	1.01
4.417	2.03	10.417	6.07	16.417	2.03	22.42	1.01
4.500	2.03	10.500	6.07	16.500	2.03	22.50	1.01
4.583	2.03	10.583	6.07	16.583	2.03	22.58	1.01
4.667	2.03	10.667	6.07	16.667	2.03	22.67	1.01
4.750	2.03	10.750	6.07	16.750	2.03	22.75	1.01
4.833	2.03	10.833	6.07	16.833	2.03	22.83	1.01
4.917	2.03	10.917	6.07	16.917	2.03	22.92	1.01
5.000	2.03	11.000	6.07	17.000	2.03	23.00	1.01
5.083	2.03	11.083	8.08	17.083	2.03	23.08	1.01
5.167	2.03	11.167	8.08	17.167	2.03	23.17	1.01
5.250	2.03	11.250	10.20	17.250	2.03	23.25	1.01
5.333	2.03	11.333	11.62	17.333	2.03	23.33	1.01
5.417	2.03	11.417	14.55	17.417	2.03	23.42	1.01
5.500	2.03	11.500	26.28	17.500	2.03	23.50	1.01
5.583	2.03	11.583	26.28	17.583	2.03	23.58	1.01
5.667	2.03	11.667	51.35	17.667	2.03	23.67	1.01
5.750	2.03	11.750	57.62	17.750	2.03	23.75	1.01
5.833	2.03	11.833	82.67	17.833	2.03	23.83	1.01
5.917	2.03	11.917	120.27	17.917	2.03	23.92	1.01
6.000	2.03	12.000	120.27	18.000	2.03	24.00	1.01

```
     Max.Eff.Inten.(mm/hr)=     120.27        49.63
                over (min)        5.00        15.00
     Storage Coeff.  (min)=       0.87 (ii)   10.21 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=       0.34         0.09
                                                          *TOTALS*
     PEAK FLOW       (cms)=       0.00         0.00          0.008 (iii)
     TIME TO PEAK    (hrs)=      12.00        12.08         12.00
     RUNOFF VOLUME    (mm)=     102.68        35.39         53.46
     TOTAL RAINFALL   (mm)=     103.68       103.68        103.68
     RUNOFF COEFFICIENT   =       0.99         0.34          0.52

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 1 (  0202):     0.10   0.010    12.00    42.74
      + ID2= 2 (  0203):     0.05   0.008    12.00    53.46
        ==================================================
        ID = 3 (  0003):     0.15   0.018    12.00    46.51

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
*** W A R N I N G :  HYDROGRAPH   0034 <ID= 2> IS DRY.
*** W A R N I N G :  HYDROGRAPH   0001 = HYDROGRAPH 0003
        ID1= 3 (  0003):     0.15   0.018    12.00    46.51
      + ID2= 2 (  0034):     0.00   0.000     0.00     0.00
        ==================================================
        ID = 1 (  0003):     0.15   0.018    12.00    46.51

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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| ADD HYD (0003)|
| 1 + 2 = 3 |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0003):	0.15	0.018	12.00	46.51
+ ID2= 2 (0035):	2.85	0.445	12.05	80.85
ID = 3 (0003):	3.00	0.460	12.03	79.12

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

****
** SIMULATION:1.5 100Y24HSCS **
****

READ STORM	Filename: C:\Users\CAAS077425\AppData\Local\Temp\928a9435-1a45-4733-a537-3482c3d30588\cec2b792
Ptotal=112.45 mm	Comments: 100Y24HSCS

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	1.27	6.00	2.29	12.00	21.84	18.00	2.29
0.20	1.27	6.20	2.29	12.20	13.72	18.20	2.29
0.40	1.27	6.40	2.29	12.40	9.91	18.40	2.29
0.60	1.27	6.60	2.29	12.60	9.40	18.60	2.29
0.80	1.27	6.80	2.29	12.80	6.60	18.80	2.29
1.00	1.27	7.00	2.29	13.00	5.59	19.00	1.78
1.20	1.27	7.20	2.29	13.20	5.59	19.20	1.78
1.40	1.27	7.40	2.29	13.40	5.59	19.40	1.78
1.60	1.27	7.60	2.29	13.60	5.59	19.60	1.78
1.80	1.27	7.80	2.29	13.80	5.59	19.80	1.78
2.00	1.27	8.00	3.30	14.00	3.30	20.00	1.78
2.20	1.27	8.20	3.30	14.20	3.30	20.20	1.78
2.40	1.27	8.40	3.30	14.40	3.30	20.40	1.78
2.60	1.27	8.60	3.30	14.60	3.30	20.60	1.78
2.80	1.27	8.80	3.30	14.80	3.30	20.80	1.78
3.00	1.27	9.00	3.30	15.00	3.30	21.00	1.27
3.20	1.27	9.20	3.30	15.20	3.30	21.20	1.27
3.40	1.27	9.40	3.30	15.40	3.30	21.40	1.27
3.60	1.27	9.60	3.30	15.60	3.30	21.60	1.27
3.80	1.27	9.80	3.30	15.80	3.30	21.80	1.27
4.00	2.29	10.00	6.10	16.00	2.29	22.00	1.27
4.20	2.29	10.20	6.10	16.20	2.29	22.20	1.27
4.40	2.29	10.40	6.10	16.40	2.29	22.40	1.27
4.60	2.29	10.60	6.10	16.60	2.29	22.60	1.27
4.80	2.29	10.80	6.10	16.80	2.29	22.80	1.27
5.00	2.29	11.00	8.13	17.00	2.29	23.00	1.27
5.20	2.29	11.20	11.94	17.20	2.29	23.20	1.27
5.40	2.29	11.40	27.43	17.40	2.29	23.40	1.27
5.60	2.29	11.60	59.94	17.60	2.29	23.60	1.27
5.80	2.29	11.80	126.49	17.80	2.29	23.80	1.27

CALIB STANDHYD (2011) ID= 1 DT= 5.0 min	Area (ha)= 1.84 Total Imp(%)= 77.00 Dir. Conn.(%)= 77.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.42	0.42
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	110.72	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	1.27	6.083	2.29	12.083	21.85	18.08	2.29
0.167	1.27	6.167	2.29	12.167	21.84	18.17	2.29
0.250	1.27	6.250	2.29	12.250	16.97	18.25	2.29
0.333	1.27	6.333	2.29	12.333	13.72	18.33	2.29
0.417	1.27	6.417	2.29	12.417	12.96	18.42	2.29
0.500	1.27	6.500	2.29	12.500	9.91	18.50	2.29
0.583	1.27	6.583	2.29	12.583	9.91	18.58	2.29
0.667	1.27	6.667	2.29	12.667	9.50	18.67	2.29
0.750	1.27	6.750	2.29	12.750	9.40	18.75	2.29
0.833	1.27	6.833	2.29	12.833	8.28	18.83	2.29
0.917	1.27	6.917	2.29	12.917	6.60	18.92	2.29
1.000	1.27	7.000	2.29	13.000	6.60	19.00	2.29
1.083	1.27	7.083	2.29	13.083	5.59	19.08	1.78
1.167	1.27	7.167	2.29	13.167	5.59	19.17	1.78
1.250	1.27	7.250	2.29	13.250	5.59	19.25	1.78
1.333	1.27	7.333	2.29	13.333	5.59	19.33	1.78
1.417	1.27	7.417	2.29	13.417	5.59	19.42	1.78
1.500	1.27	7.500	2.29	13.500	5.59	19.50	1.78
1.583	1.27	7.583	2.29	13.583	5.59	19.58	1.78
1.667	1.27	7.667	2.29	13.667	5.59	19.67	1.78
1.750	1.27	7.750	2.29	13.750	5.59	19.75	1.78
1.833	1.27	7.833	2.29	13.833	5.59	19.83	1.78
1.917	1.27	7.917	2.29	13.917	5.59	19.92	1.78
2.000	1.27	8.000	2.29	14.000	5.59	20.00	1.78
2.083	1.27	8.083	3.30	14.083	3.30	20.08	1.78
2.167	1.27	8.167	3.30	14.167	3.30	20.17	1.78
2.250	1.27	8.250	3.30	14.250	3.30	20.25	1.78

2.333	1.27	8.333	3.30	14.333	3.30	20.33	1.78
2.417	1.27	8.417	3.30	14.417	3.30	20.42	1.78
2.500	1.27	8.500	3.30	14.500	3.30	20.50	1.78
2.583	1.27	8.583	3.30	14.583	3.30	20.58	1.78
2.667	1.27	8.667	3.30	14.667	3.30	20.67	1.78
2.750	1.27	8.750	3.30	14.750	3.30	20.75	1.78
2.833	1.27	8.833	3.30	14.833	3.30	20.83	1.78
2.917	1.27	8.917	3.30	14.917	3.30	20.92	1.78
3.000	1.27	9.000	3.30	15.000	3.30	21.00	1.78
3.083	1.27	9.083	3.30	15.083	3.30	21.08	1.27
3.167	1.27	9.167	3.30	15.167	3.30	21.17	1.27
3.250	1.27	9.250	3.30	15.250	3.30	21.25	1.27
3.333	1.27	9.333	3.30	15.333	3.30	21.33	1.27
3.417	1.27	9.417	3.30	15.417	3.30	21.42	1.27
3.500	1.27	9.500	3.30	15.500	3.30	21.50	1.27
3.583	1.27	9.583	3.30	15.583	3.30	21.58	1.27
3.667	1.27	9.667	3.30	15.667	3.30	21.67	1.27
3.750	1.27	9.750	3.30	15.750	3.30	21.75	1.27
3.833	1.27	9.833	3.30	15.833	3.30	21.83	1.27
3.917	1.27	9.917	3.30	15.917	3.30	21.92	1.27
4.000	1.27	10.000	3.30	16.000	3.30	22.00	1.27
4.083	2.29	10.083	6.10	16.083	2.29	22.08	1.27
4.167	2.29	10.167	6.10	16.167	2.29	22.17	1.27
4.250	2.29	10.250	6.10	16.250	2.29	22.25	1.27
4.333	2.29	10.333	6.10	16.333	2.29	22.33	1.27
4.417	2.29	10.417	6.10	16.417	2.29	22.42	1.27
4.500	2.29	10.500	6.10	16.500	2.29	22.50	1.27
4.583	2.29	10.583	6.10	16.583	2.29	22.58	1.27
4.667	2.29	10.667	6.10	16.667	2.29	22.67	1.27
4.750	2.29	10.750	6.10	16.750	2.29	22.75	1.27
4.833	2.29	10.833	6.10	16.833	2.29	22.83	1.27
4.917	2.29	10.917	6.10	16.917	2.29	22.92	1.27
5.000	2.29	11.000	6.10	17.000	2.29	23.00	1.27
5.083	2.29	11.083	8.13	17.083	2.29	23.08	1.27
5.167	2.29	11.167	8.13	17.167	2.29	23.17	1.27
5.250	2.29	11.250	10.42	17.250	2.29	23.25	1.27
5.333	2.29	11.333	11.94	17.333	2.29	23.33	1.27
5.417	2.29	11.417	15.04	17.417	2.29	23.42	1.27
5.500	2.29	11.500	27.43	17.500	2.29	23.50	1.27
5.583	2.29	11.583	27.43	17.583	2.29	23.58	1.27
5.667	2.29	11.667	53.43	17.667	2.29	23.67	1.27
5.750	2.29	11.750	59.94	17.750	2.29	23.75	1.27
5.833	2.29	11.833	86.55	17.833	2.29	23.83	1.27
5.917	2.29	11.917	126.49	17.917	2.29	23.92	1.27
6.000	2.29	12.000	126.49	18.000	2.29	24.00	1.27

Max.Eff.Inten.(mm/hr)=	126.49	54.80
over (min)	5.00	10.00
Storage Coeff. (min)=	2.47 (ii)	6.43 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00

Unit Hyd. peak (cms)=	0.29	0.14		
				TOTALS
PEAK FLOW (cms)=	0.49	0.05		0.545 (iii)
TIME TO PEAK (hrs)=	12.00	12.00		12.00
RUNOFF VOLUME (mm)=	111.45	40.66		95.17
TOTAL RAINFALL (mm)=	112.45	112.45		112.45
RUNOFF COEFFICIENT =	0.99	0.36		0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (2012) | Area (ha)= 0.23
ID= 1 DT= 1.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=		0.23	0.00
Dep. Storage (mm)=		1.00	5.00
Average Slope (%)=		0.50	2.00
Length (m)=		67.00	40.00
Mannings n =		0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	1.27	6.017	2.29	12.017	21.91	18.02	2.29
0.033	1.27	6.033	2.29	12.033	21.84	18.03	2.29
0.050	1.27	6.050	2.29	12.050	21.84	18.05	2.29
0.067	1.27	6.067	2.29	12.067	21.84	18.07	2.29
0.083	1.27	6.083	2.29	12.083	21.84	18.08	2.29
0.100	1.27	6.100	2.29	12.100	21.84	18.10	2.29
0.117	1.27	6.117	2.29	12.117	21.84	18.12	2.29
0.133	1.27	6.133	2.29	12.133	21.84	18.13	2.29
0.150	1.27	6.150	2.29	12.150	21.84	18.15	2.29
0.167	1.27	6.167	2.29	12.167	21.84	18.17	2.29
0.183	1.27	6.183	2.29	12.183	21.84	18.18	2.29
0.200	1.27	6.200	2.29	12.200	21.84	18.20	2.29
0.217	1.27	6.217	2.29	12.217	13.73	18.22	2.29
0.233	1.27	6.233	2.29	12.233	13.72	18.23	2.29
0.250	1.27	6.250	2.29	12.250	13.72	18.25	2.29

0.267	1.27	6.267	2.29	12.267	13.72	18.27	2.29
0.283	1.27	6.283	2.29	12.283	13.72	18.28	2.29
0.300	1.27	6.300	2.29	12.300	13.72	18.30	2.29
0.317	1.27	6.317	2.29	12.317	13.72	18.32	2.29
0.333	1.27	6.333	2.29	12.333	13.72	18.33	2.29
0.350	1.27	6.350	2.29	12.350	13.72	18.35	2.29
0.367	1.27	6.367	2.29	12.367	13.72	18.37	2.29
0.383	1.27	6.383	2.29	12.383	13.72	18.38	2.29
0.400	1.27	6.400	2.29	12.400	13.72	18.40	2.29
0.417	1.27	6.417	2.29	12.417	9.91	18.42	2.29
0.433	1.27	6.433	2.29	12.433	9.91	18.43	2.29
0.450	1.27	6.450	2.29	12.450	9.91	18.45	2.29
0.467	1.27	6.467	2.29	12.467	9.91	18.47	2.29
0.483	1.27	6.483	2.29	12.483	9.91	18.48	2.29
0.500	1.27	6.500	2.29	12.500	9.91	18.50	2.29
0.517	1.27	6.517	2.29	12.517	9.91	18.52	2.29
0.533	1.27	6.533	2.29	12.533	9.91	18.53	2.29
0.550	1.27	6.550	2.29	12.550	9.91	18.55	2.29
0.567	1.27	6.567	2.29	12.567	9.91	18.57	2.29
0.583	1.27	6.583	2.29	12.583	9.91	18.58	2.29
0.600	1.27	6.600	2.29	12.600	9.91	18.60	2.29
0.617	1.27	6.617	2.29	12.617	9.40	18.62	2.29
0.633	1.27	6.633	2.29	12.633	9.40	18.63	2.29
0.650	1.27	6.650	2.29	12.650	9.40	18.65	2.29
0.667	1.27	6.667	2.29	12.667	9.40	18.67	2.29
0.683	1.27	6.683	2.29	12.683	9.40	18.68	2.29
0.700	1.27	6.700	2.29	12.700	9.40	18.70	2.29
0.717	1.27	6.717	2.29	12.717	9.40	18.72	2.29
0.733	1.27	6.733	2.29	12.733	9.40	18.73	2.29
0.750	1.27	6.750	2.29	12.750	9.40	18.75	2.29
0.767	1.27	6.767	2.29	12.767	9.40	18.77	2.29
0.783	1.27	6.783	2.29	12.783	9.40	18.78	2.29
0.800	1.27	6.800	2.29	12.800	9.40	18.80	2.29
0.817	1.27	6.817	2.29	12.817	6.60	18.82	2.29
0.833	1.27	6.833	2.29	12.833	6.60	18.83	2.29
0.850	1.27	6.850	2.29	12.850	6.60	18.85	2.29
0.867	1.27	6.867	2.29	12.867	6.60	18.87	2.29
0.883	1.27	6.883	2.29	12.883	6.60	18.88	2.29
0.900	1.27	6.900	2.29	12.900	6.60	18.90	2.29
0.917	1.27	6.917	2.29	12.917	6.60	18.92	2.29
0.933	1.27	6.933	2.29	12.933	6.60	18.93	2.29
0.950	1.27	6.950	2.29	12.950	6.60	18.95	2.29
0.967	1.27	6.967	2.29	12.967	6.60	18.97	2.29
0.983	1.27	6.983	2.29	12.983	6.60	18.98	2.29
1.000	1.27	7.000	2.29	13.000	6.60	19.00	2.29
1.017	1.27	7.017	2.29	13.017	5.59	19.02	1.78
1.033	1.27	7.033	2.29	13.033	5.59	19.03	1.78
1.050	1.27	7.050	2.29	13.050	5.59	19.05	1.78
1.067	1.27	7.067	2.29	13.067	5.59	19.07	1.78
1.083	1.27	7.083	2.29	13.083	5.59	19.08	1.78
1.100	1.27	7.100	2.29	13.100	5.59	19.10	1.78
1.117	1.27	7.117	2.29	13.117	5.59	19.12	1.78
1.133	1.27	7.133	2.29	13.133	5.59	19.13	1.78
1.150	1.27	7.150	2.29	13.150	5.59	19.15	1.78
1.167	1.27	7.167	2.29	13.167	5.59	19.17	1.78
1.183	1.27	7.183	2.29	13.183	5.59	19.18	1.78
1.200	1.27	7.200	2.29	13.200	5.59	19.20	1.78
1.217	1.27	7.217	2.29	13.217	5.59	19.22	1.78
1.233	1.27	7.233	2.29	13.233	5.59	19.23	1.78
1.250	1.27	7.250	2.29	13.250	5.59	19.25	1.78
1.267	1.27	7.267	2.29	13.267	5.59	19.27	1.78
1.283	1.27	7.283	2.29	13.283	5.59	19.28	1.78
1.300	1.27	7.300	2.29	13.300	5.59	19.30	1.78
1.317	1.27	7.317	2.29	13.317	5.59	19.32	1.78
1.333	1.27	7.333	2.29	13.333	5.59	19.33	1.78
1.350	1.27	7.350	2.29	13.350	5.59	19.35	1.78
1.367	1.27	7.367	2.29	13.367	5.59	19.37	1.78
1.383	1.27	7.383	2.29	13.383	5.59	19.38	1.78
1.400	1.27	7.400	2.29	13.400	5.59	19.40	1.78
1.417	1.27	7.417	2.29	13.417	5.59	19.42	1.78
1.433	1.27	7.433	2.29	13.433	5.59	19.43	1.78
1.450	1.27	7.450	2.29	13.450	5.59	19.45	1.78
1.467	1.27	7.467	2.29	13.467	5.59	19.47	1.78
1.483	1.27	7.483	2.29	13.483	5.59	19.48	1.78
1.500	1.27	7.500	2.29	13.500	5.59	19.50	1.78
1.517	1.27	7.517	2.29	13.517	5.59	19.52	1.78
1.533	1.27	7.533	2.29	13.533	5.59	19.53	1.78
1.550	1.27	7.550	2.29	13.550	5.59	19.55	1.78
1.567	1.27	7.567	2.29	13.567	5.59	19.57	1.78
1.583	1.27	7.583	2.29	13.583	5.59	19.58	1.78
1.600	1.27	7.600	2.29	13.600	5.59	19.60	1.78
1.617	1.27	7.617	2.29	13.617	5.59	19.62	1.78
1.633	1.27	7.633	2.29	13.633	5.59	19.63	1.78
1.650	1.27	7.650	2.29	13.650	5.59	19.65	1.78
1.667	1.27	7.667	2.29	13.667	5.59	19.67	1.78
1.683	1.27	7.683	2.29	13.683	5.59	19.68	1.78
1.700	1.27	7.700	2.29	13.700	5.59	19.70	1.78
1.717	1.27	7.717	2.29	13.717	5.59	19.72	1.78
1.733	1.27	7.733	2.29	13.733	5.59	19.73	1.78
1.750	1.27	7.750	2.29	13.750	5.59	19.75	1.78
1.767	1.27	7.767	2.29	13.767	5.59	19.77	1.78
1.783	1.27	7.783	2.29	13.783	5.59	19.78	1.78
1.800	1.27	7.800	2.29	13.800	5.59	19.80	1.78
1.817	1.27	7.817	2.29	13.817	5.59	19.82	1.78
1.833	1.27	7.833	2.29	13.833	5.59	19.83	1.78
1.850	1.27	7.850	2.29	13.850	5.59	19.85	1.78
1.867	1.27	7.867	2.29	13.867	5.59	19.87	1.78
1.883	1.27	7.883	2.29	13.883	5.59	19.88	1.78
1.900	1.27	7.900	2.29	13.900	5.59	19.90	1.78
1.917	1.27	7.917	2.29	13.917	5.59	19.92	1.78

1.933	1.27	7.933	2.29	13.933	5.59	19.93	1.78
1.950	1.27	7.950	2.29	13.950	5.59	19.95	1.78
1.967	1.27	7.967	2.29	13.967	5.59	19.97	1.78
1.983	1.27	7.983	2.29	13.983	5.59	19.98	1.78
2.000	1.27	8.000	2.29	14.000	5.59	20.00	1.78
2.017	1.27	8.017	3.30	14.017	3.31	20.02	1.78
2.033	1.27	8.033	3.30	14.033	3.30	20.03	1.78
2.050	1.27	8.050	3.30	14.050	3.30	20.05	1.78
2.067	1.27	8.067	3.30	14.067	3.30	20.07	1.78
2.083	1.27	8.083	3.30	14.083	3.30	20.08	1.78
2.100	1.27	8.100	3.30	14.100	3.30	20.10	1.78
2.117	1.27	8.117	3.30	14.117	3.30	20.12	1.78
2.133	1.27	8.133	3.30	14.133	3.30	20.13	1.78
2.150	1.27	8.150	3.30	14.150	3.30	20.15	1.78
2.167	1.27	8.167	3.30	14.167	3.30	20.17	1.78
2.183	1.27	8.183	3.30	14.183	3.30	20.18	1.78
2.200	1.27	8.200	3.30	14.200	3.30	20.20	1.78
2.217	1.27	8.217	3.30	14.217	3.30	20.22	1.78
2.233	1.27	8.233	3.30	14.233	3.30	20.23	1.78
2.250	1.27	8.250	3.30	14.250	3.30	20.25	1.78
2.267	1.27	8.267	3.30	14.267	3.30	20.27	1.78
2.283	1.27	8.283	3.30	14.283	3.30	20.28	1.78
2.300	1.27	8.300	3.30	14.300	3.30	20.30	1.78
2.317	1.27	8.317	3.30	14.317	3.30	20.32	1.78
2.333	1.27	8.333	3.30	14.333	3.30	20.33	1.78
2.350	1.27	8.350	3.30	14.350	3.30	20.35	1.78
2.367	1.27	8.367	3.30	14.367	3.30	20.37	1.78
2.383	1.27	8.383	3.30	14.383	3.30	20.38	1.78
2.400	1.27	8.400	3.30	14.400	3.30	20.40	1.78
2.417	1.27	8.417	3.30	14.417	3.30	20.42	1.78
2.433	1.27	8.433	3.30	14.433	3.30	20.43	1.78
2.450	1.27	8.450	3.30	14.450	3.30	20.45	1.78
2.467	1.27	8.467	3.30	14.467	3.30	20.47	1.78
2.483	1.27	8.483	3.30	14.483	3.30	20.48	1.78
2.500	1.27	8.500	3.30	14.500	3.30	20.50	1.78
2.517	1.27	8.517	3.30	14.517	3.30	20.52	1.78
2.533	1.27	8.533	3.30	14.533	3.30	20.53	1.78
2.550	1.27	8.550	3.30	14.550	3.30	20.55	1.78
2.567	1.27	8.567	3.30	14.567	3.30	20.57	1.78
2.583	1.27	8.583	3.30	14.583	3.30	20.58	1.78
2.600	1.27	8.600	3.30	14.600	3.30	20.60	1.78
2.617	1.27	8.617	3.30	14.617	3.30	20.62	1.78
2.633	1.27	8.633	3.30	14.633	3.30	20.63	1.78
2.650	1.27	8.650	3.30	14.650	3.30	20.65	1.78
2.667	1.27	8.667	3.30	14.667	3.30	20.67	1.78
2.683	1.27	8.683	3.30	14.683	3.30	20.68	1.78
2.700	1.27	8.700	3.30	14.700	3.30	20.70	1.78
2.717	1.27	8.717	3.30	14.717	3.30	20.72	1.78
2.733	1.27	8.733	3.30	14.733	3.30	20.73	1.78
2.750	1.27	8.750	3.30	14.750	3.30	20.75	1.78
2.767	1.27	8.767	3.30	14.767	3.30	20.77	1.78
2.783	1.27	8.783	3.30	14.783	3.30	20.78	1.78
2.800	1.27	8.800	3.30	14.800	3.30	20.80	1.78
2.817	1.27	8.817	3.30	14.817	3.30	20.82	1.78
2.833	1.27	8.833	3.30	14.833	3.30	20.83	1.78
2.850	1.27	8.850	3.30	14.850	3.30	20.85	1.78
2.867	1.27	8.867	3.30	14.867	3.30	20.87	1.78
2.883	1.27	8.883	3.30	14.883	3.30	20.88	1.78
2.900	1.27	8.900	3.30	14.900	3.30	20.90	1.78
2.917	1.27	8.917	3.30	14.917	3.30	20.92	1.78
2.933	1.27	8.933	3.30	14.933	3.30	20.93	1.78
2.950	1.27	8.950	3.30	14.950	3.30	20.95	1.78
2.967	1.27	8.967	3.30	14.967	3.30	20.97	1.78
2.983	1.27	8.983	3.30	14.983	3.30	20.98	1.78
3.000	1.27	9.000	3.30	15.000	3.30	21.00	1.78
3.017	1.27	9.017	3.30	15.017	3.30	21.02	1.27
3.033	1.27	9.033	3.30	15.033	3.30	21.03	1.27
3.050	1.27	9.050	3.30	15.050	3.30	21.05	1.27
3.067	1.27	9.067	3.30	15.067	3.30	21.07	1.27
3.083	1.27	9.083	3.30	15.083	3.30	21.08	1.27
3.100	1.27	9.100	3.30	15.100	3.30	21.10	1.27
3.117	1.27	9.117	3.30	15.117	3.30	21.12	1.27
3.133	1.27	9.133	3.30	15.133	3.30	21.13	1.27
3.150	1.27	9.150	3.30	15.150	3.30	21.15	1.27
3.167	1.27	9.167	3.30	15.167	3.30	21.17	1.27
3.183	1.27	9.183	3.30	15.183	3.30	21.18	1.27
3.200	1.27	9.200	3.30	15.200	3.30	21.20	1.27
3.217	1.27	9.217	3.30	15.217	3.30	21.22	1.27
3.233	1.27	9.233	3.30	15.233	3.30	21.23	1.27
3.250	1.27	9.250	3.30	15.250	3.30	21.25	1.27
3.267	1.27	9.267	3.30	15.267	3.30	21.27	1.27
3.283	1.27	9.283	3.30	15.283	3.30	21.28	1.27
3.300	1.27	9.300	3.30	15.300	3.30	21.30	1.27
3.317	1.27	9.317	3.30	15.317	3.30	21.32	1.27
3.333	1.27	9.333	3.30	15.333	3.30	21.33	1.27
3.350	1.27	9.350	3.30	15.350	3.30	21.35	1.27
3.367	1.27	9.367	3.30	15.367	3.30	21.37	1.27
3.383	1.27	9.383	3.30	15.383	3.30	21.38	1.27
3.400	1.27	9.400	3.30	15.400	3.30	21.40	1.27
3.417	1.27	9.417	3.30	15.417	3.30	21.42	1.27
3.433	1.27	9.433	3.30	15.433	3.30	21.43	1.27
3.450	1.27	9.450	3.30	15.450	3.30	21.45	1.27
3.467	1.27	9.467	3.30	15.467	3.30	21.47	1.27
3.483	1.27	9.483	3.30	15.483	3.30	21.48	1.27
3.500	1.27	9.500	3.30	15.500	3.30	21.50	1.27
3.517	1.27	9.517	3.30	15.517	3.30	21.52	1.27
3.533	1.27	9.533	3.30	15.533	3.30	21.53	1.27
3.550	1.27	9.550	3.30	15.550	3.30	21.55	1.27
3.567	1.27	9.567	3.30	15.567	3.30	21.57	1.27
3.583	1.27	9.583	3.30	15.583	3.30	21.58	1.27

3.600	1.27	9.600	3.30	15.600	3.30	21.60	1.27
3.617	1.27	9.617	3.30	15.617	3.30	21.62	1.27
3.633	1.27	9.633	3.30	15.633	3.30	21.63	1.27
3.650	1.27	9.650	3.30	15.650	3.30	21.65	1.27
3.667	1.27	9.667	3.30	15.667	3.30	21.67	1.27
3.683	1.27	9.683	3.30	15.683	3.30	21.68	1.27
3.700	1.27	9.700	3.30	15.700	3.30	21.70	1.27
3.717	1.27	9.717	3.30	15.717	3.30	21.72	1.27
3.733	1.27	9.733	3.30	15.733	3.30	21.73	1.27
3.750	1.27	9.750	3.30	15.750	3.30	21.75	1.27
3.767	1.27	9.767	3.30	15.767	3.30	21.77	1.27
3.783	1.27	9.783	3.30	15.783	3.30	21.78	1.27
3.800	1.27	9.800	3.30	15.800	3.30	21.80	1.27
3.817	1.27	9.817	3.30	15.817	3.30	21.82	1.27
3.833	1.27	9.833	3.30	15.833	3.30	21.83	1.27
3.850	1.27	9.850	3.30	15.850	3.30	21.85	1.27
3.867	1.27	9.867	3.30	15.867	3.30	21.87	1.27
3.883	1.27	9.883	3.30	15.883	3.30	21.88	1.27
3.900	1.27	9.900	3.30	15.900	3.30	21.90	1.27
3.917	1.27	9.917	3.30	15.917	3.30	21.92	1.27
3.933	1.27	9.933	3.30	15.933	3.30	21.93	1.27
3.950	1.27	9.950	3.30	15.950	3.30	21.95	1.27
3.967	1.27	9.967	3.30	15.967	3.30	21.97	1.27
3.983	1.27	9.983	3.30	15.983	3.30	21.98	1.27
4.000	1.27	10.000	3.30	16.000	3.30	22.00	1.27
4.017	2.29	10.017	6.10	16.017	2.29	22.02	1.27
4.033	2.29	10.033	6.10	16.033	2.29	22.03	1.27
4.050	2.29	10.050	6.10	16.050	2.29	22.05	1.27
4.067	2.29	10.067	6.10	16.067	2.29	22.07	1.27
4.083	2.29	10.083	6.10	16.083	2.29	22.08	1.27
4.100	2.29	10.100	6.10	16.100	2.29	22.10	1.27
4.117	2.29	10.117	6.10	16.117	2.29	22.12	1.27
4.133	2.29	10.133	6.10	16.133	2.29	22.13	1.27
4.150	2.29	10.150	6.10	16.150	2.29	22.15	1.27
4.167	2.29	10.167	6.10	16.167	2.29	22.17	1.27
4.183	2.29	10.183	6.10	16.183	2.29	22.18	1.27
4.200	2.29	10.200	6.10	16.200	2.29	22.20	1.27
4.217	2.29	10.217	6.10	16.217	2.29	22.22	1.27
4.233	2.29	10.233	6.10	16.233	2.29	22.23	1.27
4.250	2.29	10.250	6.10	16.250	2.29	22.25	1.27
4.267	2.29	10.267	6.10	16.267	2.29	22.27	1.27
4.283	2.29	10.283	6.10	16.283	2.29	22.28	1.27
4.300	2.29	10.300	6.10	16.300	2.29	22.30	1.27
4.317	2.29	10.317	6.10	16.317	2.29	22.32	1.27
4.333	2.29	10.333	6.10	16.333	2.29	22.33	1.27
4.350	2.29	10.350	6.10	16.350	2.29	22.35	1.27
4.367	2.29	10.367	6.10	16.367	2.29	22.37	1.27
4.383	2.29	10.383	6.10	16.383	2.29	22.38	1.27
4.400	2.29	10.400	6.10	16.400	2.29	22.40	1.27
4.417	2.29	10.417	6.10	16.417	2.29	22.42	1.27
4.433	2.29	10.433	6.10	16.433	2.29	22.43	1.27
4.450	2.29	10.450	6.10	16.450	2.29	22.45	1.27
4.467	2.29	10.467	6.10	16.467	2.29	22.47	1.27
4.483	2.29	10.483	6.10	16.483	2.29	22.48	1.27
4.500	2.29	10.500	6.10	16.500	2.29	22.50	1.27
4.517	2.29	10.517	6.10	16.517	2.29	22.52	1.27
4.533	2.29	10.533	6.10	16.533	2.29	22.53	1.27
4.550	2.29	10.550	6.10	16.550	2.29	22.55	1.27
4.567	2.29	10.567	6.10	16.567	2.29	22.57	1.27
4.583	2.29	10.583	6.10	16.583	2.29	22.58	1.27
4.600	2.29	10.600	6.10	16.600	2.29	22.60	1.27
4.617	2.29	10.617	6.10	16.617	2.29	22.62	1.27
4.633	2.29	10.633	6.10	16.633	2.29	22.63	1.27
4.650	2.29	10.650	6.10	16.650	2.29	22.65	1.27
4.667	2.29	10.667	6.10	16.667	2.29	22.67	1.27
4.683	2.29	10.683	6.10	16.683	2.29	22.68	1.27
4.700	2.29	10.700	6.10	16.700	2.29	22.70	1.27
4.717	2.29	10.717	6.10	16.717	2.29	22.72	1.27
4.733	2.29	10.733	6.10	16.733	2.29	22.73	1.27
4.750	2.29	10.750	6.10	16.750	2.29	22.75	1.27
4.767	2.29	10.767	6.10	16.767	2.29	22.77	1.27
4.783	2.29	10.783	6.10	16.783	2.29	22.78	1.27
4.800	2.29	10.800	6.10	16.800	2.29	22.80	1.27
4.817	2.29	10.817	6.10	16.817	2.29	22.82	1.27
4.833	2.29	10.833	6.10	16.833	2.29	22.83	1.27
4.850	2.29	10.850	6.10	16.850	2.29	22.85	1.27
4.867	2.29	10.867	6.10	16.867	2.29	22.87	1.27
4.883	2.29	10.883	6.10	16.883	2.29	22.88	1.27
4.900	2.29	10.900	6.10	16.900	2.29	22.90	1.27
4.917	2.29	10.917	6.10	16.917	2.29	22.92	1.27
4.933	2.29	10.933	6.10	16.933	2.29	22.93	1.27
4.950	2.29	10.950	6.10	16.950	2.29	22.95	1.27
4.967	2.29	10.967	6.10	16.967	2.29	22.97	1.27
4.983	2.29	10.983	6.10	16.983	2.29	22.98	1.27
5.000	2.29	11.000	6.10	17.000	2.29	23.00	1.27
5.017	2.29	11.017	8.13	17.017	2.29	23.02	1.27
5.033	2.29	11.033	8.13	17.033	2.29	23.03	1.27
5.050	2.29	11.050	8.13	17.050	2.29	23.05	1.27
5.067	2.29	11.067	8.13	17.067	2.29	23.07	1.27
5.083	2.29	11.083	8.13	17.083	2.29	23.08	1.27
5.100	2.29	11.100	8.13	17.100	2.29	23.10	1.27
5.117	2.29	11.117	8.13	17.117	2.29	23.12	1.27
5.133	2.29	11.133	8.13	17.133	2.29	23.13	1.27
5.150	2.29	11.150	8.13	17.150	2.29	23.15	1.27
5.167	2.29	11.167	8.13	17.167	2.29	23.17	1.27
5.183	2.29	11.183	8.13	17.183	2.29	23.18	1.27
5.200	2.29	11.200	8.13	17.200	2.29	23.20	1.27
5.217	2.29	11.217	11.94	17.217	2.29	23.22	1.27
5.233	2.29	11.233	11.94	17.233	2.29	23.23	1.27
5.250	2.29	11.250	11.94	17.250	2.29	23.25	1.27

5.267	2.29	11.267	11.94	17.267	2.29	23.27	1.27
5.283	2.29	11.283	11.94	17.283	2.29	23.28	1.27
5.300	2.29	11.300	11.94	17.300	2.29	23.30	1.27
5.317	2.29	11.317	11.94	17.317	2.29	23.32	1.27
5.333	2.29	11.333	11.94	17.333	2.29	23.33	1.27
5.350	2.29	11.350	11.94	17.350	2.29	23.35	1.27
5.367	2.29	11.367	11.94	17.367	2.29	23.37	1.27
5.383	2.29	11.383	11.94	17.383	2.29	23.38	1.27
5.400	2.29	11.400	11.94	17.400	2.29	23.40	1.27
5.417	2.29	11.417	27.43	17.417	2.29	23.42	1.27
5.433	2.29	11.433	27.43	17.433	2.29	23.43	1.27
5.450	2.29	11.450	27.43	17.450	2.29	23.45	1.27
5.467	2.29	11.467	27.43	17.467	2.29	23.47	1.27
5.483	2.29	11.483	27.43	17.483	2.29	23.48	1.27
5.500	2.29	11.500	27.43	17.500	2.29	23.50	1.27
5.517	2.29	11.517	27.43	17.517	2.29	23.52	1.27
5.533	2.29	11.533	27.43	17.533	2.29	23.53	1.27
5.550	2.29	11.550	27.43	17.550	2.29	23.55	1.27
5.567	2.29	11.567	27.43	17.567	2.29	23.57	1.27
5.583	2.29	11.583	27.43	17.583	2.29	23.58	1.27
5.600	2.29	11.600	27.43	17.600	2.29	23.60	1.27
5.617	2.29	11.617	59.93	17.617	2.29	23.62	1.27
5.633	2.29	11.633	59.94	17.633	2.29	23.63	1.27
5.650	2.29	11.650	59.94	17.650	2.29	23.65	1.27
5.667	2.29	11.667	59.94	17.667	2.29	23.67	1.27
5.683	2.29	11.683	59.94	17.683	2.29	23.68	1.27
5.700	2.29	11.700	59.94	17.700	2.29	23.70	1.27
5.717	2.29	11.717	59.94	17.717	2.29	23.72	1.27
5.733	2.29	11.733	59.94	17.733	2.29	23.73	1.27
5.750	2.29	11.750	59.94	17.750	2.29	23.75	1.27
5.767	2.29	11.767	59.94	17.767	2.29	23.77	1.27
5.783	2.29	11.783	59.94	17.783	2.29	23.78	1.27
5.800	2.29	11.800	59.94	17.800	2.29	23.80	1.27
5.817	2.29	11.817	126.45	17.817	2.29	23.82	1.27
5.833	2.29	11.833	126.49	17.833	2.29	23.83	1.27
5.850	2.29	11.850	126.49	17.850	2.29	23.85	1.27
5.867	2.29	11.867	126.49	17.867	2.29	23.87	1.27
5.883	2.29	11.883	126.49	17.883	2.29	23.88	1.27
5.900	2.29	11.900	126.49	17.900	2.29	23.90	1.27
5.917	2.29	11.917	126.49	17.917	2.29	23.92	1.27
5.933	2.29	11.933	126.49	17.933	2.29	23.93	1.27
5.950	2.29	11.950	126.49	17.950	2.29	23.95	1.27
5.967	2.29	11.967	126.49	17.967	2.29	23.97	1.27
5.983	2.29	11.983	126.49	17.983	2.29	23.98	1.27
6.000	2.29	12.000	126.49	18.000	2.29	24.00	1.27

Max.Eff.Inten.(mm/hr)=	126.49	54.80
over (min)	5.00	4.00
Storage Coeff. (min)=	2.25 (ii)	3.27 (ii)
Unit Hyd. Tpeak (min)=	5.00	4.00

Unit Hyd. peak (cms)=	0.35	0.32	
			TOTALS
PEAK FLOW (cms)=	0.08	0.00	0.079 (iii)
TIME TO PEAK (hrs)=	12.00	12.00	12.00
RUNOFF VOLUME (mm)=	111.45	40.66	110.74
TOTAL RAINFALL (mm)=	112.45	112.45	112.45
RUNOFF COEFFICIENT =	0.99	0.36	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0101) / IN= 2---> OUT= 1 / DT= 5.0 min	OVERFLOW IS OFF			
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0380	0.0061
	0.0190	0.0030	0.0570	0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.079	12.00	110.74
OUTFLOW: ID= 1 (0101)	0.229	0.039	12.08	110.57

PEAK FLOW REDUCTION [Qout/Qin](%)= 49.22
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0063

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB / STANDHYD (2014) / ID= 1 DT= 1.0 min	Area (ha)= 0.15		
	Total Imp(%)= 99.00	Dir. Conn.(%)= 99.00	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.15	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	31.44	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	1.27	6.017	2.29	12.017	21.91	18.02	2.29
0.033	1.27	6.033	2.29	12.033	21.84	18.03	2.29
0.050	1.27	6.050	2.29	12.050	21.84	18.05	2.29
0.067	1.27	6.067	2.29	12.067	21.84	18.07	2.29
0.083	1.27	6.083	2.29	12.083	21.84	18.08	2.29
0.100	1.27	6.100	2.29	12.100	21.84	18.10	2.29
0.117	1.27	6.117	2.29	12.117	21.84	18.12	2.29
0.133	1.27	6.133	2.29	12.133	21.84	18.13	2.29
0.150	1.27	6.150	2.29	12.150	21.84	18.15	2.29
0.167	1.27	6.167	2.29	12.167	21.84	18.17	2.29
0.183	1.27	6.183	2.29	12.183	21.84	18.18	2.29
0.200	1.27	6.200	2.29	12.200	21.84	18.20	2.29
0.217	1.27	6.217	2.29	12.217	13.73	18.22	2.29
0.233	1.27	6.233	2.29	12.233	13.72	18.23	2.29
0.250	1.27	6.250	2.29	12.250	13.72	18.25	2.29
0.267	1.27	6.267	2.29	12.267	13.72	18.27	2.29
0.283	1.27	6.283	2.29	12.283	13.72	18.28	2.29
0.300	1.27	6.300	2.29	12.300	13.72	18.30	2.29
0.317	1.27	6.317	2.29	12.317	13.72	18.32	2.29
0.333	1.27	6.333	2.29	12.333	13.72	18.33	2.29
0.350	1.27	6.350	2.29	12.350	13.72	18.35	2.29
0.367	1.27	6.367	2.29	12.367	13.72	18.37	2.29
0.383	1.27	6.383	2.29	12.383	13.72	18.38	2.29
0.400	1.27	6.400	2.29	12.400	13.72	18.40	2.29
0.417	1.27	6.417	2.29	12.417	9.91	18.42	2.29
0.433	1.27	6.433	2.29	12.433	9.91	18.43	2.29
0.450	1.27	6.450	2.29	12.450	9.91	18.45	2.29
0.467	1.27	6.467	2.29	12.467	9.91	18.47	2.29
0.483	1.27	6.483	2.29	12.483	9.91	18.48	2.29
0.500	1.27	6.500	2.29	12.500	9.91	18.50	2.29
0.517	1.27	6.517	2.29	12.517	9.91	18.52	2.29
0.533	1.27	6.533	2.29	12.533	9.91	18.53	2.29
0.550	1.27	6.550	2.29	12.550	9.91	18.55	2.29
0.567	1.27	6.567	2.29	12.567	9.91	18.57	2.29
0.583	1.27	6.583	2.29	12.583	9.91	18.58	2.29
0.600	1.27	6.600	2.29	12.600	9.91	18.60	2.29
0.617	1.27	6.617	2.29	12.617	9.40	18.62	2.29
0.633	1.27	6.633	2.29	12.633	9.40	18.63	2.29
0.650	1.27	6.650	2.29	12.650	9.40	18.65	2.29
0.667	1.27	6.667	2.29	12.667	9.40	18.67	2.29
0.683	1.27	6.683	2.29	12.683	9.40	18.68	2.29
0.700	1.27	6.700	2.29	12.700	9.40	18.70	2.29
0.717	1.27	6.717	2.29	12.717	9.40	18.72	2.29
0.733	1.27	6.733	2.29	12.733	9.40	18.73	2.29
0.750	1.27	6.750	2.29	12.750	9.40	18.75	2.29
0.767	1.27	6.767	2.29	12.767	9.40	18.77	2.29
0.783	1.27	6.783	2.29	12.783	9.40	18.78	2.29
0.800	1.27	6.800	2.29	12.800	9.40	18.80	2.29
0.817	1.27	6.817	2.29	12.817	6.60	18.82	2.29
0.833	1.27	6.833	2.29	12.833	6.60	18.83	2.29
0.850	1.27	6.850	2.29	12.850	6.60	18.85	2.29
0.867	1.27	6.867	2.29	12.867	6.60	18.87	2.29
0.883	1.27	6.883	2.29	12.883	6.60	18.88	2.29
0.900	1.27	6.900	2.29	12.900	6.60	18.90	2.29
0.917	1.27	6.917	2.29	12.917	6.60	18.92	2.29
0.933	1.27	6.933	2.29	12.933	6.60	18.93	2.29
0.950	1.27	6.950	2.29	12.950	6.60	18.95	2.29
0.967	1.27	6.967	2.29	12.967	6.60	18.97	2.29
0.983	1.27	6.983	2.29	12.983	6.60	18.98	2.29
1.000	1.27	7.000	2.29	13.000	6.60	19.00	2.29
1.017	1.27	7.017	2.29	13.017	5.59	19.02	1.78
1.033	1.27	7.033	2.29	13.033	5.59	19.03	1.78
1.050	1.27	7.050	2.29	13.050	5.59	19.05	1.78
1.067	1.27	7.067	2.29	13.067	5.59	19.07	1.78
1.083	1.27	7.083	2.29	13.083	5.59	19.08	1.78
1.100	1.27	7.100	2.29	13.100	5.59	19.10	1.78
1.117	1.27	7.117	2.29	13.117	5.59	19.12	1.78
1.133	1.27	7.133	2.29	13.133	5.59	19.13	1.78
1.150	1.27	7.150	2.29	13.150	5.59	19.15	1.78
1.167	1.27	7.167	2.29	13.167	5.59	19.17	1.78
1.183	1.27	7.183	2.29	13.183	5.59	19.18	1.78
1.200	1.27	7.200	2.29	13.200	5.59	19.20	1.78
1.217	1.27	7.217	2.29	13.217	5.59	19.22	1.78
1.233	1.27	7.233	2.29	13.233	5.59	19.23	1.78
1.250	1.27	7.250	2.29	13.250	5.59	19.25	1.78
1.267	1.27	7.267	2.29	13.267	5.59	19.27	1.78
1.283	1.27	7.283	2.29	13.283	5.59	19.28	1.78
1.300	1.27	7.300	2.29	13.300	5.59	19.30	1.78
1.317	1.27	7.317	2.29	13.317	5.59	19.32	1.78
1.333	1.27	7.333	2.29	13.333	5.59	19.33	1.78
1.350	1.27	7.350	2.29	13.350	5.59	19.35	1.78
1.367	1.27	7.367	2.29	13.367	5.59	19.37	1.78
1.383	1.27	7.383	2.29	13.383	5.59	19.38	1.78
1.400	1.27	7.400	2.29	13.400	5.59	19.40	1.78
1.417	1.27	7.417	2.29	13.417	5.59	19.42	1.78
1.433	1.27	7.433	2.29	13.433	5.59	19.43	1.78
1.450	1.27	7.450	2.29	13.450	5.59	19.45	1.78
1.467	1.27	7.467	2.29	13.467	5.59	19.47	1.78
1.483	1.27	7.483	2.29	13.483	5.59	19.48	1.78
1.500	1.27	7.500	2.29	13.500	5.59	19.50	1.78
1.517	1.27	7.517	2.29	13.517	5.59	19.52	1.78
1.533	1.27	7.533	2.29	13.533	5.59	19.53	1.78
1.550	1.27	7.550	2.29	13.550	5.59	19.55	1.78
1.567	1.27	7.567	2.29	13.567	5.59	19.57	1.78
1.583	1.27	7.583	2.29	13.583	5.59	19.58	1.78
1.600	1.27	7.600	2.29	13.600	5.59	19.60	1.78
1.617	1.27	7.617	2.29	13.617	5.59	19.62	1.78

1.633	1.27	7.633	2.29	13.633	5.59	19.63	1.78
1.650	1.27	7.650	2.29	13.650	5.59	19.65	1.78
1.667	1.27	7.667	2.29	13.667	5.59	19.67	1.78
1.683	1.27	7.683	2.29	13.683	5.59	19.68	1.78
1.700	1.27	7.700	2.29	13.700	5.59	19.70	1.78
1.717	1.27	7.717	2.29	13.717	5.59	19.72	1.78
1.733	1.27	7.733	2.29	13.733	5.59	19.73	1.78
1.750	1.27	7.750	2.29	13.750	5.59	19.75	1.78
1.767	1.27	7.767	2.29	13.767	5.59	19.77	1.78
1.783	1.27	7.783	2.29	13.783	5.59	19.78	1.78
1.800	1.27	7.800	2.29	13.800	5.59	19.80	1.78
1.817	1.27	7.817	2.29	13.817	5.59	19.82	1.78
1.833	1.27	7.833	2.29	13.833	5.59	19.83	1.78
1.850	1.27	7.850	2.29	13.850	5.59	19.85	1.78
1.867	1.27	7.867	2.29	13.867	5.59	19.87	1.78
1.883	1.27	7.883	2.29	13.883	5.59	19.88	1.78
1.900	1.27	7.900	2.29	13.900	5.59	19.90	1.78
1.917	1.27	7.917	2.29	13.917	5.59	19.92	1.78
1.933	1.27	7.933	2.29	13.933	5.59	19.93	1.78
1.950	1.27	7.950	2.29	13.950	5.59	19.95	1.78
1.967	1.27	7.967	2.29	13.967	5.59	19.97	1.78
1.983	1.27	7.983	2.29	13.983	5.59	19.98	1.78
2.000	1.27	8.000	2.29	14.000	5.59	20.00	1.78
2.017	1.27	8.017	3.30	14.017	3.31	20.02	1.78
2.033	1.27	8.033	3.30	14.033	3.30	20.03	1.78
2.050	1.27	8.050	3.30	14.050	3.30	20.05	1.78
2.067	1.27	8.067	3.30	14.067	3.30	20.07	1.78
2.083	1.27	8.083	3.30	14.083	3.30	20.08	1.78
2.100	1.27	8.100	3.30	14.100	3.30	20.10	1.78
2.117	1.27	8.117	3.30	14.117	3.30	20.12	1.78
2.133	1.27	8.133	3.30	14.133	3.30	20.13	1.78
2.150	1.27	8.150	3.30	14.150	3.30	20.15	1.78
2.167	1.27	8.167	3.30	14.167	3.30	20.17	1.78
2.183	1.27	8.183	3.30	14.183	3.30	20.18	1.78
2.200	1.27	8.200	3.30	14.200	3.30	20.20	1.78
2.217	1.27	8.217	3.30	14.217	3.30	20.22	1.78
2.233	1.27	8.233	3.30	14.233	3.30	20.23	1.78
2.250	1.27	8.250	3.30	14.250	3.30	20.25	1.78
2.267	1.27	8.267	3.30	14.267	3.30	20.27	1.78
2.283	1.27	8.283	3.30	14.283	3.30	20.28	1.78
2.300	1.27	8.300	3.30	14.300	3.30	20.30	1.78
2.317	1.27	8.317	3.30	14.317	3.30	20.32	1.78
2.333	1.27	8.333	3.30	14.333	3.30	20.33	1.78
2.350	1.27	8.350	3.30	14.350	3.30	20.35	1.78
2.367	1.27	8.367	3.30	14.367	3.30	20.37	1.78
2.383	1.27	8.383	3.30	14.383	3.30	20.38	1.78
2.400	1.27	8.400	3.30	14.400	3.30	20.40	1.78
2.417	1.27	8.417	3.30	14.417	3.30	20.42	1.78
2.433	1.27	8.433	3.30	14.433	3.30	20.43	1.78
2.450	1.27	8.450	3.30	14.450	3.30	20.45	1.78
2.467	1.27	8.467	3.30	14.467	3.30	20.47	1.78
2.483	1.27	8.483	3.30	14.483	3.30	20.48	1.78
2.500	1.27	8.500	3.30	14.500	3.30	20.50	1.78
2.517	1.27	8.517	3.30	14.517	3.30	20.52	1.78
2.533	1.27	8.533	3.30	14.533	3.30	20.53	1.78
2.550	1.27	8.550	3.30	14.550	3.30	20.55	1.78
2.567	1.27	8.567	3.30	14.567	3.30	20.57	1.78
2.583	1.27	8.583	3.30	14.583	3.30	20.58	1.78
2.600	1.27	8.600	3.30	14.600	3.30	20.60	1.78
2.617	1.27	8.617	3.30	14.617	3.30	20.62	1.78
2.633	1.27	8.633	3.30	14.633	3.30	20.63	1.78
2.650	1.27	8.650	3.30	14.650	3.30	20.65	1.78
2.667	1.27	8.667	3.30	14.667	3.30	20.67	1.78
2.683	1.27	8.683	3.30	14.683	3.30	20.68	1.78
2.700	1.27	8.700	3.30	14.700	3.30	20.70	1.78
2.717	1.27	8.717	3.30	14.717	3.30	20.72	1.78
2.733	1.27	8.733	3.30	14.733	3.30	20.73	1.78
2.750	1.27	8.750	3.30	14.750	3.30	20.75	1.78
2.767	1.27	8.767	3.30	14.767	3.30	20.77	1.78
2.783	1.27	8.783	3.30	14.783	3.30	20.78	1.78
2.800	1.27	8.800	3.30	14.800	3.30	20.80	1.78
2.817	1.27	8.817	3.30	14.817	3.30	20.82	1.78
2.833	1.27	8.833	3.30	14.833	3.30	20.83	1.78
2.850	1.27	8.850	3.30	14.850	3.30	20.85	1.78
2.867	1.27	8.867	3.30	14.867	3.30	20.87	1.78
2.883	1.27	8.883	3.30	14.883	3.30	20.88	1.78
2.900	1.27	8.900	3.30	14.900	3.30	20.90	1.78
2.917	1.27	8.917	3.30	14.917	3.30	20.92	1.78
2.933	1.27	8.933	3.30	14.933	3.30	20.93	1.78
2.950	1.27	8.950	3.30	14.950	3.30	20.95	1.78
2.967	1.27	8.967	3.30	14.967	3.30	20.97	1.78
2.983	1.27	8.983	3.30	14.983	3.30	20.98	1.78
3.000	1.27	9.000	3.30	15.000	3.30	21.00	1.78
3.017	1.27	9.017	3.30	15.017	3.30	21.02	1.27
3.033	1.27	9.033	3.30	15.033	3.30	21.03	1.27
3.050	1.27	9.050	3.30	15.050	3.30	21.05	1.27
3.067	1.27	9.067	3.30	15.067	3.30	21.07	1.27
3.083	1.27	9.083	3.30	15.083	3.30	21.08	1.27
3.100	1.27	9.100	3.30	15.100	3.30	21.10	1.27
3.117	1.27	9.117	3.30	15.117	3.30	21.12	1.27
3.133	1.27	9.133	3.30	15.133	3.30	21.13	1.27
3.150	1.27	9.150	3.30	15.150	3.30	21.15	1.27
3.167	1.27	9.167	3.30	15.167	3.30	21.17	1.27
3.183	1.27	9.183	3.30	15.183	3.30	21.18	1.27
3.200	1.27	9.200	3.30	15.200	3.30	21.20	1.27
3.217	1.27	9.217	3.30	15.217	3.30	21.22	1.27
3.233	1.27	9.233	3.30	15.233	3.30	21.23	1.27
3.250	1.27	9.250	3.30	15.250	3.30	21.25	1.27
3.267	1.27	9.267	3.30	15.267	3.30	21.27	1.27
3.283	1.27	9.283	3.30	15.283	3.30	21.28	1.27

3.300	1.27	9.300	3.30	15.300	3.30	21.30	1.27
3.317	1.27	9.317	3.30	15.317	3.30	21.32	1.27
3.333	1.27	9.333	3.30	15.333	3.30	21.33	1.27
3.350	1.27	9.350	3.30	15.350	3.30	21.35	1.27
3.367	1.27	9.367	3.30	15.367	3.30	21.37	1.27
3.383	1.27	9.383	3.30	15.383	3.30	21.38	1.27
3.400	1.27	9.400	3.30	15.400	3.30	21.40	1.27
3.417	1.27	9.417	3.30	15.417	3.30	21.42	1.27
3.433	1.27	9.433	3.30	15.433	3.30	21.43	1.27
3.450	1.27	9.450	3.30	15.450	3.30	21.45	1.27
3.467	1.27	9.467	3.30	15.467	3.30	21.47	1.27
3.483	1.27	9.483	3.30	15.483	3.30	21.48	1.27
3.500	1.27	9.500	3.30	15.500	3.30	21.50	1.27
3.517	1.27	9.517	3.30	15.517	3.30	21.52	1.27
3.533	1.27	9.533	3.30	15.533	3.30	21.53	1.27
3.550	1.27	9.550	3.30	15.550	3.30	21.55	1.27
3.567	1.27	9.567	3.30	15.567	3.30	21.57	1.27
3.583	1.27	9.583	3.30	15.583	3.30	21.58	1.27
3.600	1.27	9.600	3.30	15.600	3.30	21.60	1.27
3.617	1.27	9.617	3.30	15.617	3.30	21.62	1.27
3.633	1.27	9.633	3.30	15.633	3.30	21.63	1.27
3.650	1.27	9.650	3.30	15.650	3.30	21.65	1.27
3.667	1.27	9.667	3.30	15.667	3.30	21.67	1.27
3.683	1.27	9.683	3.30	15.683	3.30	21.68	1.27
3.700	1.27	9.700	3.30	15.700	3.30	21.70	1.27
3.717	1.27	9.717	3.30	15.717	3.30	21.72	1.27
3.733	1.27	9.733	3.30	15.733	3.30	21.73	1.27
3.750	1.27	9.750	3.30	15.750	3.30	21.75	1.27
3.767	1.27	9.767	3.30	15.767	3.30	21.77	1.27
3.783	1.27	9.783	3.30	15.783	3.30	21.78	1.27
3.800	1.27	9.800	3.30	15.800	3.30	21.80	1.27
3.817	1.27	9.817	3.30	15.817	3.30	21.82	1.27
3.833	1.27	9.833	3.30	15.833	3.30	21.83	1.27
3.850	1.27	9.850	3.30	15.850	3.30	21.85	1.27
3.867	1.27	9.867	3.30	15.867	3.30	21.87	1.27
3.883	1.27	9.883	3.30	15.883	3.30	21.88	1.27
3.900	1.27	9.900	3.30	15.900	3.30	21.90	1.27
3.917	1.27	9.917	3.30	15.917	3.30	21.92	1.27
3.933	1.27	9.933	3.30	15.933	3.30	21.93	1.27
3.950	1.27	9.950	3.30	15.950	3.30	21.95	1.27
3.967	1.27	9.967	3.30	15.967	3.30	21.97	1.27
3.983	1.27	9.983	3.30	15.983	3.30	21.98	1.27
4.000	1.27	10.000	3.30	16.000	3.30	22.00	1.27
4.017	2.29	10.017	6.10	16.017	2.29	22.02	1.27
4.033	2.29	10.033	6.10	16.033	2.29	22.03	1.27
4.050	2.29	10.050	6.10	16.050	2.29	22.05	1.27
4.067	2.29	10.067	6.10	16.067	2.29	22.07	1.27
4.083	2.29	10.083	6.10	16.083	2.29	22.08	1.27
4.100	2.29	10.100	6.10	16.100	2.29	22.10	1.27
4.117	2.29	10.117	6.10	16.117	2.29	22.12	1.27
4.133	2.29	10.133	6.10	16.133	2.29	22.13	1.27
4.150	2.29	10.150	6.10	16.150	2.29	22.15	1.27
4.167	2.29	10.167	6.10	16.167	2.29	22.17	1.27
4.183	2.29	10.183	6.10	16.183	2.29	22.18	1.27
4.200	2.29	10.200	6.10	16.200	2.29	22.20	1.27
4.217	2.29	10.217	6.10	16.217	2.29	22.22	1.27
4.233	2.29	10.233	6.10	16.233	2.29	22.23	1.27
4.250	2.29	10.250	6.10	16.250	2.29	22.25	1.27
4.267	2.29	10.267	6.10	16.267	2.29	22.27	1.27
4.283	2.29	10.283	6.10	16.283	2.29	22.28	1.27
4.300	2.29	10.300	6.10	16.300	2.29	22.30	1.27
4.317	2.29	10.317	6.10	16.317	2.29	22.32	1.27
4.333	2.29	10.333	6.10	16.333	2.29	22.33	1.27
4.350	2.29	10.350	6.10	16.350	2.29	22.35	1.27
4.367	2.29	10.367	6.10	16.367	2.29	22.37	1.27
4.383	2.29	10.383	6.10	16.383	2.29	22.38	1.27
4.400	2.29	10.400	6.10	16.400	2.29	22.40	1.27
4.417	2.29	10.417	6.10	16.417	2.29	22.42	1.27
4.433	2.29	10.433	6.10	16.433	2.29	22.43	1.27
4.450	2.29	10.450	6.10	16.450	2.29	22.45	1.27
4.467	2.29	10.467	6.10	16.467	2.29	22.47	1.27
4.483	2.29	10.483	6.10	16.483	2.29	22.48	1.27
4.500	2.29	10.500	6.10	16.500	2.29	22.50	1.27
4.517	2.29	10.517	6.10	16.517	2.29	22.52	1.27
4.533	2.29	10.533	6.10	16.533	2.29	22.53	1.27
4.550	2.29	10.550	6.10	16.550	2.29	22.55	1.27
4.567	2.29	10.567	6.10	16.567	2.29	22.57	1.27
4.583	2.29	10.583	6.10	16.583	2.29	22.58	1.27
4.600	2.29	10.600	6.10	16.600	2.29	22.60	1.27
4.617	2.29	10.617	6.10	16.617	2.29	22.62	1.27
4.633	2.29	10.633	6.10	16.633	2.29	22.63	1.27
4.650	2.29	10.650	6.10	16.650	2.29	22.65	1.27
4.667	2.29	10.667	6.10	16.667	2.29	22.67	1.27
4.683	2.29	10.683	6.10	16.683	2.29	22.68	1.27
4.700	2.29	10.700	6.10	16.700	2.29	22.70	1.27
4.717	2.29	10.717	6.10	16.717	2.29	22.72	1.27
4.733	2.29	10.733	6.10	16.733	2.29	22.73	1.27
4.750	2.29	10.750	6.10	16.750	2.29	22.75	1.27
4.767	2.29	10.767	6.10	16.767	2.29	22.77	1.27
4.783	2.29	10.783	6.10	16.783	2.29	22.78	1.27
4.800	2.29	10.800	6.10	16.800	2.29	22.80	1.27
4.817	2.29	10.817	6.10	16.817	2.29	22.82	1.27
4.833	2.29	10.833	6.10	16.833	2.29	22.83	1.27
4.850	2.29	10.850	6.10	16.850	2.29	22.85	1.27
4.867	2.29	10.867	6.10	16.867	2.29	22.87	1.27
4.883	2.29	10.883	6.10	16.883	2.29	22.88	1.27
4.900	2.29	10.900	6.10	16.900	2.29	22.90	1.27
4.917	2.29	10.917	6.10	16.917	2.29	22.92	1.27
4.933	2.29	10.933	6.10	16.933	2.29	22.93	1.27
4.950	2.29	10.950	6.10	16.950	2.29	22.95	1.27

4.967	2.29	10.967	6.10	16.967	2.29	22.97	1.27
4.983	2.29	10.983	6.10	16.983	2.29	22.98	1.27
5.000	2.29	11.000	6.10	17.000	2.29	23.00	1.27
5.017	2.29	11.017	8.13	17.017	2.29	23.02	1.27
5.033	2.29	11.033	8.13	17.033	2.29	23.03	1.27
5.050	2.29	11.050	8.13	17.050	2.29	23.05	1.27
5.067	2.29	11.067	8.13	17.067	2.29	23.07	1.27
5.083	2.29	11.083	8.13	17.083	2.29	23.08	1.27
5.100	2.29	11.100	8.13	17.100	2.29	23.10	1.27
5.117	2.29	11.117	8.13	17.117	2.29	23.12	1.27
5.133	2.29	11.133	8.13	17.133	2.29	23.13	1.27
5.150	2.29	11.150	8.13	17.150	2.29	23.15	1.27
5.167	2.29	11.167	8.13	17.167	2.29	23.17	1.27
5.183	2.29	11.183	8.13	17.183	2.29	23.18	1.27
5.200	2.29	11.200	8.13	17.200	2.29	23.20	1.27
5.217	2.29	11.217	11.94	17.217	2.29	23.22	1.27
5.233	2.29	11.233	11.94	17.233	2.29	23.23	1.27
5.250	2.29	11.250	11.94	17.250	2.29	23.25	1.27
5.267	2.29	11.267	11.94	17.267	2.29	23.27	1.27
5.283	2.29	11.283	11.94	17.283	2.29	23.28	1.27
5.300	2.29	11.300	11.94	17.300	2.29	23.30	1.27
5.317	2.29	11.317	11.94	17.317	2.29	23.32	1.27
5.333	2.29	11.333	11.94	17.333	2.29	23.33	1.27
5.350	2.29	11.350	11.94	17.350	2.29	23.35	1.27
5.367	2.29	11.367	11.94	17.367	2.29	23.37	1.27
5.383	2.29	11.383	11.94	17.383	2.29	23.38	1.27
5.400	2.29	11.400	11.94	17.400	2.29	23.40	1.27
5.417	2.29	11.417	27.43	17.417	2.29	23.42	1.27
5.433	2.29	11.433	27.43	17.433	2.29	23.43	1.27
5.450	2.29	11.450	27.43	17.450	2.29	23.45	1.27
5.467	2.29	11.467	27.43	17.467	2.29	23.47	1.27
5.483	2.29	11.483	27.43	17.483	2.29	23.48	1.27
5.500	2.29	11.500	27.43	17.500	2.29	23.50	1.27
5.517	2.29	11.517	27.43	17.517	2.29	23.52	1.27
5.533	2.29	11.533	27.43	17.533	2.29	23.53	1.27
5.550	2.29	11.550	27.43	17.550	2.29	23.55	1.27
5.567	2.29	11.567	27.43	17.567	2.29	23.57	1.27
5.583	2.29	11.583	27.43	17.583	2.29	23.58	1.27
5.600	2.29	11.600	27.43	17.600	2.29	23.60	1.27
5.617	2.29	11.617	59.93	17.617	2.29	23.62	1.27
5.633	2.29	11.633	59.94	17.633	2.29	23.63	1.27
5.650	2.29	11.650	59.94	17.650	2.29	23.65	1.27
5.667	2.29	11.667	59.94	17.667	2.29	23.67	1.27
5.683	2.29	11.683	59.94	17.683	2.29	23.68	1.27
5.700	2.29	11.700	59.94	17.700	2.29	23.70	1.27
5.717	2.29	11.717	59.94	17.717	2.29	23.72	1.27
5.733	2.29	11.733	59.94	17.733	2.29	23.73	1.27
5.750	2.29	11.750	59.94	17.750	2.29	23.75	1.27
5.767	2.29	11.767	59.94	17.767	2.29	23.77	1.27
5.783	2.29	11.783	59.94	17.783	2.29	23.78	1.27
5.800	2.29	11.800	59.94	17.800	2.29	23.80	1.27
5.817	2.29	11.817	126.45	17.817	2.29	23.82	1.27
5.833	2.29	11.833	126.49	17.833	2.29	23.83	1.27
5.850	2.29	11.850	126.49	17.850	2.29	23.85	1.27
5.867	2.29	11.867	126.49	17.867	2.29	23.87	1.27
5.883	2.29	11.883	126.49	17.883	2.29	23.88	1.27
5.900	2.29	11.900	126.49	17.900	2.29	23.90	1.27
5.917	2.29	11.917	126.49	17.917	2.29	23.92	1.27
5.933	2.29	11.933	126.49	17.933	2.29	23.93	1.27
5.950	2.29	11.950	126.49	17.950	2.29	23.95	1.27
5.967	2.29	11.967	126.49	17.967	2.29	23.97	1.27
5.983	2.29	11.983	126.49	17.983	2.29	23.98	1.27
6.000	2.29	12.000	126.49	18.000	2.29	24.00	1.27

Max.Eff.Inten.(mm/hr)=	126.49	103.87	
over (min)	5.00	3.00	
Storage Coeff. (min)=	1.43 (ii)	2.45 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.43	0.43	
			TOTALS
PEAK FLOW (cms)=	0.05	0.00	0.052 (iii)
TIME TO PEAK (hrs)=	12.00	12.00	12.00
RUNOFF VOLUME (mm)=	111.45	79.02	111.12
TOTAL RAINFALL (mm)=	112.45	112.45	112.45
RUNOFF COEFFICIENT =	0.99	0.70	0.99

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0103)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0250	0.0040
	0.0130	0.0020	0.0380	0.0059

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2014)	0.148	0.052	12.00	111.12
OUTFLOW: ID= 1 (0103)	0.148	0.026	12.07	110.87

PEAK FLOW REDUCTION [Qout/Qin](%)= 49.52
TIME SHIFT OF PEAK FLOW (min)= 4.00
MAXIMUM STORAGE USED (ha.m.)= 0.0041

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB	
STANDHYD (2013)	Area (ha)= 0.31
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.31	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	65.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	1.27	6.017	2.29	12.017	21.91	18.02	2.29
0.033	1.27	6.033	2.29	12.033	21.84	18.03	2.29
0.050	1.27	6.050	2.29	12.050	21.84	18.05	2.29
0.067	1.27	6.067	2.29	12.067	21.84	18.07	2.29
0.083	1.27	6.083	2.29	12.083	21.84	18.08	2.29
0.100	1.27	6.100	2.29	12.100	21.84	18.10	2.29
0.117	1.27	6.117	2.29	12.117	21.84	18.12	2.29
0.133	1.27	6.133	2.29	12.133	21.84	18.13	2.29
0.150	1.27	6.150	2.29	12.150	21.84	18.15	2.29
0.167	1.27	6.167	2.29	12.167	21.84	18.17	2.29
0.183	1.27	6.183	2.29	12.183	21.84	18.18	2.29
0.200	1.27	6.200	2.29	12.200	21.84	18.20	2.29
0.217	1.27	6.217	2.29	12.217	13.73	18.22	2.29
0.233	1.27	6.233	2.29	12.233	13.72	18.23	2.29
0.250	1.27	6.250	2.29	12.250	13.72	18.25	2.29
0.267	1.27	6.267	2.29	12.267	13.72	18.27	2.29
0.283	1.27	6.283	2.29	12.283	13.72	18.28	2.29
0.300	1.27	6.300	2.29	12.300	13.72	18.30	2.29
0.317	1.27	6.317	2.29	12.317	13.72	18.32	2.29
0.333	1.27	6.333	2.29	12.333	13.72	18.33	2.29
0.350	1.27	6.350	2.29	12.350	13.72	18.35	2.29
0.367	1.27	6.367	2.29	12.367	13.72	18.37	2.29
0.383	1.27	6.383	2.29	12.383	13.72	18.38	2.29
0.400	1.27	6.400	2.29	12.400	13.72	18.40	2.29
0.417	1.27	6.417	2.29	12.417	9.91	18.42	2.29
0.433	1.27	6.433	2.29	12.433	9.91	18.43	2.29
0.450	1.27	6.450	2.29	12.450	9.91	18.45	2.29
0.467	1.27	6.467	2.29	12.467	9.91	18.47	2.29
0.483	1.27	6.483	2.29	12.483	9.91	18.48	2.29
0.500	1.27	6.500	2.29	12.500	9.91	18.50	2.29
0.517	1.27	6.517	2.29	12.517	9.91	18.52	2.29
0.533	1.27	6.533	2.29	12.533	9.91	18.53	2.29
0.550	1.27	6.550	2.29	12.550	9.91	18.55	2.29
0.567	1.27	6.567	2.29	12.567	9.91	18.57	2.29
0.583	1.27	6.583	2.29	12.583	9.91	18.58	2.29
0.600	1.27	6.600	2.29	12.600	9.91	18.60	2.29
0.617	1.27	6.617	2.29	12.617	9.40	18.62	2.29
0.633	1.27	6.633	2.29	12.633	9.40	18.63	2.29
0.650	1.27	6.650	2.29	12.650	9.40	18.65	2.29
0.667	1.27	6.667	2.29	12.667	9.40	18.67	2.29
0.683	1.27	6.683	2.29	12.683	9.40	18.68	2.29
0.700	1.27	6.700	2.29	12.700	9.40	18.70	2.29
0.717	1.27	6.717	2.29	12.717	9.40	18.72	2.29
0.733	1.27	6.733	2.29	12.733	9.40	18.73	2.29
0.750	1.27	6.750	2.29	12.750	9.40	18.75	2.29
0.767	1.27	6.767	2.29	12.767	9.40	18.77	2.29
0.783	1.27	6.783	2.29	12.783	9.40	18.78	2.29
0.800	1.27	6.800	2.29	12.800	9.40	18.80	2.29
0.817	1.27	6.817	2.29	12.817	6.60	18.82	2.29
0.833	1.27	6.833	2.29	12.833	6.60	18.83	2.29
0.850	1.27	6.850	2.29	12.850	6.60	18.85	2.29
0.867	1.27	6.867	2.29	12.867	6.60	18.87	2.29
0.883	1.27	6.883	2.29	12.883	6.60	18.88	2.29
0.900	1.27	6.900	2.29	12.900	6.60	18.90	2.29
0.917	1.27	6.917	2.29	12.917	6.60	18.92	2.29
0.933	1.27	6.933	2.29	12.933	6.60	18.93	2.29
0.950	1.27	6.950	2.29	12.950	6.60	18.95	2.29
0.967	1.27	6.967	2.29	12.967	6.60	18.97	2.29
0.983	1.27	6.983	2.29	12.983	6.60	18.98	2.29
1.000	1.27	7.000	2.29	13.000	6.60	19.00	2.29
1.017	1.27	7.017	2.29	13.017	5.59	19.02	1.78
1.033	1.27	7.033	2.29	13.033	5.59	19.03	1.78
1.050	1.27	7.050	2.29	13.050	5.59	19.05	1.78
1.067	1.27	7.067	2.29	13.067	5.59	19.07	1.78
1.083	1.27	7.083	2.29	13.083	5.59	19.08	1.78
1.100	1.27	7.100	2.29	13.100	5.59	19.10	1.78
1.117	1.27	7.117	2.29	13.117	5.59	19.12	1.78
1.133	1.27	7.133	2.29	13.133	5.59	19.13	1.78
1.150	1.27	7.150	2.29	13.150	5.59	19.15	1.78
1.167	1.27	7.167	2.29	13.167	5.59	19.17	1.78
1.183	1.27	7.183	2.29	13.183	5.59	19.18	1.78
1.200	1.27	7.200	2.29	13.200	5.59	19.20	1.78
1.217	1.27	7.217	2.29	13.217	5.59	19.22	1.78
1.233	1.27	7.233	2.29	13.233	5.59	19.23	1.78
1.250	1.27	7.250	2.29	13.250	5.59	19.25	1.78
1.267	1.27	7.267	2.29	13.267	5.59	19.27	1.78
1.283	1.27	7.283	2.29	13.283	5.59	19.28	1.78
1.300	1.27	7.300	2.29	13.300	5.59	19.30	1.78
1.317	1.27	7.317	2.29	13.317	5.59	19.32	1.78

1.333	1.27	7.333	2.29	13.333	5.59	19.33	1.78
1.350	1.27	7.350	2.29	13.350	5.59	19.35	1.78
1.367	1.27	7.367	2.29	13.367	5.59	19.37	1.78
1.383	1.27	7.383	2.29	13.383	5.59	19.38	1.78
1.400	1.27	7.400	2.29	13.400	5.59	19.40	1.78
1.417	1.27	7.417	2.29	13.417	5.59	19.42	1.78
1.433	1.27	7.433	2.29	13.433	5.59	19.43	1.78
1.450	1.27	7.450	2.29	13.450	5.59	19.45	1.78
1.467	1.27	7.467	2.29	13.467	5.59	19.47	1.78
1.483	1.27	7.483	2.29	13.483	5.59	19.48	1.78
1.500	1.27	7.500	2.29	13.500	5.59	19.50	1.78
1.517	1.27	7.517	2.29	13.517	5.59	19.52	1.78
1.533	1.27	7.533	2.29	13.533	5.59	19.53	1.78
1.550	1.27	7.550	2.29	13.550	5.59	19.55	1.78
1.567	1.27	7.567	2.29	13.567	5.59	19.57	1.78
1.583	1.27	7.583	2.29	13.583	5.59	19.58	1.78
1.600	1.27	7.600	2.29	13.600	5.59	19.60	1.78
1.617	1.27	7.617	2.29	13.617	5.59	19.62	1.78
1.633	1.27	7.633	2.29	13.633	5.59	19.63	1.78
1.650	1.27	7.650	2.29	13.650	5.59	19.65	1.78
1.667	1.27	7.667	2.29	13.667	5.59	19.67	1.78
1.683	1.27	7.683	2.29	13.683	5.59	19.68	1.78
1.700	1.27	7.700	2.29	13.700	5.59	19.70	1.78
1.717	1.27	7.717	2.29	13.717	5.59	19.72	1.78
1.733	1.27	7.733	2.29	13.733	5.59	19.73	1.78
1.750	1.27	7.750	2.29	13.750	5.59	19.75	1.78
1.767	1.27	7.767	2.29	13.767	5.59	19.77	1.78
1.783	1.27	7.783	2.29	13.783	5.59	19.78	1.78
1.800	1.27	7.800	2.29	13.800	5.59	19.80	1.78
1.817	1.27	7.817	2.29	13.817	5.59	19.82	1.78
1.833	1.27	7.833	2.29	13.833	5.59	19.83	1.78
1.850	1.27	7.850	2.29	13.850	5.59	19.85	1.78
1.867	1.27	7.867	2.29	13.867	5.59	19.87	1.78
1.883	1.27	7.883	2.29	13.883	5.59	19.88	1.78
1.900	1.27	7.900	2.29	13.900	5.59	19.90	1.78
1.917	1.27	7.917	2.29	13.917	5.59	19.92	1.78
1.933	1.27	7.933	2.29	13.933	5.59	19.93	1.78
1.950	1.27	7.950	2.29	13.950	5.59	19.95	1.78
1.967	1.27	7.967	2.29	13.967	5.59	19.97	1.78
1.983	1.27	7.983	2.29	13.983	5.59	19.98	1.78
2.000	1.27	8.000	2.29	14.000	5.59	20.00	1.78
2.017	1.27	8.017	3.30	14.017	3.31	20.02	1.78
2.033	1.27	8.033	3.30	14.033	3.30	20.03	1.78
2.050	1.27	8.050	3.30	14.050	3.30	20.05	1.78
2.067	1.27	8.067	3.30	14.067	3.30	20.07	1.78
2.083	1.27	8.083	3.30	14.083	3.30	20.08	1.78
2.100	1.27	8.100	3.30	14.100	3.30	20.10	1.78
2.117	1.27	8.117	3.30	14.117	3.30	20.12	1.78
2.133	1.27	8.133	3.30	14.133	3.30	20.13	1.78
2.150	1.27	8.150	3.30	14.150	3.30	20.15	1.78
2.167	1.27	8.167	3.30	14.167	3.30	20.17	1.78
2.183	1.27	8.183	3.30	14.183	3.30	20.18	1.78
2.200	1.27	8.200	3.30	14.200	3.30	20.20	1.78
2.217	1.27	8.217	3.30	14.217	3.30	20.22	1.78
2.233	1.27	8.233	3.30	14.233	3.30	20.23	1.78
2.250	1.27	8.250	3.30	14.250	3.30	20.25	1.78
2.267	1.27	8.267	3.30	14.267	3.30	20.27	1.78
2.283	1.27	8.283	3.30	14.283	3.30	20.28	1.78
2.300	1.27	8.300	3.30	14.300	3.30	20.30	1.78
2.317	1.27	8.317	3.30	14.317	3.30	20.32	1.78
2.333	1.27	8.333	3.30	14.333	3.30	20.33	1.78
2.350	1.27	8.350	3.30	14.350	3.30	20.35	1.78
2.367	1.27	8.367	3.30	14.367	3.30	20.37	1.78
2.383	1.27	8.383	3.30	14.383	3.30	20.38	1.78
2.400	1.27	8.400	3.30	14.400	3.30	20.40	1.78
2.417	1.27	8.417	3.30	14.417	3.30	20.42	1.78
2.433	1.27	8.433	3.30	14.433	3.30	20.43	1.78
2.450	1.27	8.450	3.30	14.450	3.30	20.45	1.78
2.467	1.27	8.467	3.30	14.467	3.30	20.47	1.78
2.483	1.27	8.483	3.30	14.483	3.30	20.48	1.78
2.500	1.27	8.500	3.30	14.500	3.30	20.50	1.78
2.517	1.27	8.517	3.30	14.517	3.30	20.52	1.78
2.533	1.27	8.533	3.30	14.533	3.30	20.53	1.78
2.550	1.27	8.550	3.30	14.550	3.30	20.55	1.78
2.567	1.27	8.567	3.30	14.567	3.30	20.57	1.78
2.583	1.27	8.583	3.30	14.583	3.30	20.58	1.78
2.600	1.27	8.600	3.30	14.600	3.30	20.60	1.78
2.617	1.27	8.617	3.30	14.617	3.30	20.62	1.78
2.633	1.27	8.633	3.30	14.633	3.30	20.63	1.78
2.650	1.27	8.650	3.30	14.650	3.30	20.65	1.78
2.667	1.27	8.667	3.30	14.667	3.30	20.67	1.78
2.683	1.27	8.683	3.30	14.683	3.30	20.68	1.78
2.700	1.27	8.700	3.30	14.700	3.30	20.70	1.78
2.717	1.27	8.717	3.30	14.717	3.30	20.72	1.78
2.733	1.27	8.733	3.30	14.733	3.30	20.73	1.78
2.750	1.27	8.750	3.30	14.750	3.30	20.75	1.78
2.767	1.27	8.767	3.30	14.767	3.30	20.77	1.78
2.783	1.27	8.783	3.30	14.783	3.30	20.78	1.78
2.800	1.27	8.800	3.30	14.800	3.30	20.80	1.78
2.817	1.27	8.817	3.30	14.817	3.30	20.82	1.78
2.833	1.27	8.833	3.30	14.833	3.30	20.83	1.78
2.850	1.27	8.850	3.30	14.850	3.30	20.85	1.78
2.867	1.27	8.867	3.30	14.867	3.30	20.87	1.78
2.883	1.27	8.883	3.30	14.883	3.30	20.88	1.78
2.900	1.27	8.900	3.30	14.900	3.30	20.90	1.78
2.917	1.27	8.917	3.30	14.917	3.30	20.92	1.78
2.933	1.27	8.933	3.30	14.933	3.30	20.93	1.78
2.950	1.27	8.950	3.30	14.950	3.30	20.95	1.78
2.967	1.27	8.967	3.30	14.967	3.30	20.97	1.78
2.983	1.27	8.983	3.30	14.983	3.30	20.98	1.78

3.000	1.27	9.000	3.30	15.000	3.30	21.00	1.78
3.017	1.27	9.017	3.30	15.017	3.30	21.02	1.27
3.033	1.27	9.033	3.30	15.033	3.30	21.03	1.27
3.050	1.27	9.050	3.30	15.050	3.30	21.05	1.27
3.067	1.27	9.067	3.30	15.067	3.30	21.07	1.27
3.083	1.27	9.083	3.30	15.083	3.30	21.08	1.27
3.100	1.27	9.100	3.30	15.100	3.30	21.10	1.27
3.117	1.27	9.117	3.30	15.117	3.30	21.12	1.27
3.133	1.27	9.133	3.30	15.133	3.30	21.13	1.27
3.150	1.27	9.150	3.30	15.150	3.30	21.15	1.27
3.167	1.27	9.167	3.30	15.167	3.30	21.17	1.27
3.183	1.27	9.183	3.30	15.183	3.30	21.18	1.27
3.200	1.27	9.200	3.30	15.200	3.30	21.20	1.27
3.217	1.27	9.217	3.30	15.217	3.30	21.22	1.27
3.233	1.27	9.233	3.30	15.233	3.30	21.23	1.27
3.250	1.27	9.250	3.30	15.250	3.30	21.25	1.27
3.267	1.27	9.267	3.30	15.267	3.30	21.27	1.27
3.283	1.27	9.283	3.30	15.283	3.30	21.28	1.27
3.300	1.27	9.300	3.30	15.300	3.30	21.30	1.27
3.317	1.27	9.317	3.30	15.317	3.30	21.32	1.27
3.333	1.27	9.333	3.30	15.333	3.30	21.33	1.27
3.350	1.27	9.350	3.30	15.350	3.30	21.35	1.27
3.367	1.27	9.367	3.30	15.367	3.30	21.37	1.27
3.383	1.27	9.383	3.30	15.383	3.30	21.38	1.27
3.400	1.27	9.400	3.30	15.400	3.30	21.40	1.27
3.417	1.27	9.417	3.30	15.417	3.30	21.42	1.27
3.433	1.27	9.433	3.30	15.433	3.30	21.43	1.27
3.450	1.27	9.450	3.30	15.450	3.30	21.45	1.27
3.467	1.27	9.467	3.30	15.467	3.30	21.47	1.27
3.483	1.27	9.483	3.30	15.483	3.30	21.48	1.27
3.500	1.27	9.500	3.30	15.500	3.30	21.50	1.27
3.517	1.27	9.517	3.30	15.517	3.30	21.52	1.27
3.533	1.27	9.533	3.30	15.533	3.30	21.53	1.27
3.550	1.27	9.550	3.30	15.550	3.30	21.55	1.27
3.567	1.27	9.567	3.30	15.567	3.30	21.57	1.27
3.583	1.27	9.583	3.30	15.583	3.30	21.58	1.27
3.600	1.27	9.600	3.30	15.600	3.30	21.60	1.27
3.617	1.27	9.617	3.30	15.617	3.30	21.62	1.27
3.633	1.27	9.633	3.30	15.633	3.30	21.63	1.27
3.650	1.27	9.650	3.30	15.650	3.30	21.65	1.27
3.667	1.27	9.667	3.30	15.667	3.30	21.67	1.27
3.683	1.27	9.683	3.30	15.683	3.30	21.68	1.27
3.700	1.27	9.700	3.30	15.700	3.30	21.70	1.27
3.717	1.27	9.717	3.30	15.717	3.30	21.72	1.27
3.733	1.27	9.733	3.30	15.733	3.30	21.73	1.27
3.750	1.27	9.750	3.30	15.750	3.30	21.75	1.27
3.767	1.27	9.767	3.30	15.767	3.30	21.77	1.27
3.783	1.27	9.783	3.30	15.783	3.30	21.78	1.27
3.800	1.27	9.800	3.30	15.800	3.30	21.80	1.27
3.817	1.27	9.817	3.30	15.817	3.30	21.82	1.27
3.833	1.27	9.833	3.30	15.833	3.30	21.83	1.27
3.850	1.27	9.850	3.30	15.850	3.30	21.85	1.27
3.867	1.27	9.867	3.30	15.867	3.30	21.87	1.27
3.883	1.27	9.883	3.30	15.883	3.30	21.88	1.27
3.900	1.27	9.900	3.30	15.900	3.30	21.90	1.27
3.917	1.27	9.917	3.30	15.917	3.30	21.92	1.27
3.933	1.27	9.933	3.30	15.933	3.30	21.93	1.27
3.950	1.27	9.950	3.30	15.950	3.30	21.95	1.27
3.967	1.27	9.967	3.30	15.967	3.30	21.97	1.27
3.983	1.27	9.983	3.30	15.983	3.30	21.98	1.27
4.000	1.27	10.000	3.30	16.000	3.30	22.00	1.27
4.017	2.29	10.017	6.10	16.017	2.29	22.02	1.27
4.033	2.29	10.033	6.10	16.033	2.29	22.03	1.27
4.050	2.29	10.050	6.10	16.050	2.29	22.05	1.27
4.067	2.29	10.067	6.10	16.067	2.29	22.07	1.27
4.083	2.29	10.083	6.10	16.083	2.29	22.08	1.27
4.100	2.29	10.100	6.10	16.100	2.29	22.10	1.27
4.117	2.29	10.117	6.10	16.117	2.29	22.12	1.27
4.133	2.29	10.133	6.10	16.133	2.29	22.13	1.27
4.150	2.29	10.150	6.10	16.150	2.29	22.15	1.27
4.167	2.29	10.167	6.10	16.167	2.29	22.17	1.27
4.183	2.29	10.183	6.10	16.183	2.29	22.18	1.27
4.200	2.29	10.200	6.10	16.200	2.29	22.20	1.27
4.217	2.29	10.217	6.10	16.217	2.29	22.22	1.27
4.233	2.29	10.233	6.10	16.233	2.29	22.23	1.27
4.250	2.29	10.250	6.10	16.250	2.29	22.25	1.27
4.267	2.29	10.267	6.10	16.267	2.29	22.27	1.27
4.283	2.29	10.283	6.10	16.283	2.29	22.28	1.27
4.300	2.29	10.300	6.10	16.300	2.29	22.30	1.27
4.317	2.29	10.317	6.10	16.317	2.29	22.32	1.27
4.333	2.29	10.333	6.10	16.333	2.29	22.33	1.27
4.350	2.29	10.350	6.10	16.350	2.29	22.35	1.27
4.367	2.29	10.367	6.10	16.367	2.29	22.37	1.27
4.383	2.29	10.383	6.10	16.383	2.29	22.38	1.27
4.400	2.29	10.400	6.10	16.400	2.29	22.40	1.27
4.417	2.29	10.417	6.10	16.417	2.29	22.42	1.27
4.433	2.29	10.433	6.10	16.433	2.29	22.43	1.27
4.450	2.29	10.450	6.10	16.450	2.29	22.45	1.27
4.467	2.29	10.467	6.10	16.467	2.29	22.47	1.27
4.483	2.29	10.483	6.10	16.483	2.29	22.48	1.27
4.500	2.29	10.500	6.10	16.500	2.29	22.50	1.27
4.517	2.29	10.517	6.10	16.517	2.29	22.52	1.27
4.533	2.29	10.533	6.10	16.533	2.29	22.53	1.27
4.550	2.29	10.550	6.10	16.550	2.29	22.55	1.27
4.567	2.29	10.567	6.10	16.567	2.29	22.57	1.27
4.583	2.29	10.583	6.10	16.583	2.29	22.58	1.27
4.600	2.29	10.600	6.10	16.600	2.29	22.60	1.27
4.617	2.29	10.617	6.10	16.617	2.29	22.62	1.27
4.633	2.29	10.633	6.10	16.633	2.29	22.63	1.27
4.650	2.29	10.650	6.10	16.650	2.29	22.65	1.27

4.667	2.29	10.667	6.10	16.667	2.29	22.67	1.27
4.683	2.29	10.683	6.10	16.683	2.29	22.68	1.27
4.700	2.29	10.700	6.10	16.700	2.29	22.70	1.27
4.717	2.29	10.717	6.10	16.717	2.29	22.72	1.27
4.733	2.29	10.733	6.10	16.733	2.29	22.73	1.27
4.750	2.29	10.750	6.10	16.750	2.29	22.75	1.27
4.767	2.29	10.767	6.10	16.767	2.29	22.77	1.27
4.783	2.29	10.783	6.10	16.783	2.29	22.78	1.27
4.800	2.29	10.800	6.10	16.800	2.29	22.80	1.27
4.817	2.29	10.817	6.10	16.817	2.29	22.82	1.27
4.833	2.29	10.833	6.10	16.833	2.29	22.83	1.27
4.850	2.29	10.850	6.10	16.850	2.29	22.85	1.27
4.867	2.29	10.867	6.10	16.867	2.29	22.87	1.27
4.883	2.29	10.883	6.10	16.883	2.29	22.88	1.27
4.900	2.29	10.900	6.10	16.900	2.29	22.90	1.27
4.917	2.29	10.917	6.10	16.917	2.29	22.92	1.27
4.933	2.29	10.933	6.10	16.933	2.29	22.93	1.27
4.950	2.29	10.950	6.10	16.950	2.29	22.95	1.27
4.967	2.29	10.967	6.10	16.967	2.29	22.97	1.27
4.983	2.29	10.983	6.10	16.983	2.29	22.98	1.27
5.000	2.29	11.000	6.10	17.000	2.29	23.00	1.27
5.017	2.29	11.017	8.13	17.017	2.29	23.02	1.27
5.033	2.29	11.033	8.13	17.033	2.29	23.03	1.27
5.050	2.29	11.050	8.13	17.050	2.29	23.05	1.27
5.067	2.29	11.067	8.13	17.067	2.29	23.07	1.27
5.083	2.29	11.083	8.13	17.083	2.29	23.08	1.27
5.100	2.29	11.100	8.13	17.100	2.29	23.10	1.27
5.117	2.29	11.117	8.13	17.117	2.29	23.12	1.27
5.133	2.29	11.133	8.13	17.133	2.29	23.13	1.27
5.150	2.29	11.150	8.13	17.150	2.29	23.15	1.27
5.167	2.29	11.167	8.13	17.167	2.29	23.17	1.27
5.183	2.29	11.183	8.13	17.183	2.29	23.18	1.27
5.200	2.29	11.200	8.13	17.200	2.29	23.20	1.27
5.217	2.29	11.217	11.94	17.217	2.29	23.22	1.27
5.233	2.29	11.233	11.94	17.233	2.29	23.23	1.27
5.250	2.29	11.250	11.94	17.250	2.29	23.25	1.27
5.267	2.29	11.267	11.94	17.267	2.29	23.27	1.27
5.283	2.29	11.283	11.94	17.283	2.29	23.28	1.27
5.300	2.29	11.300	11.94	17.300	2.29	23.30	1.27
5.317	2.29	11.317	11.94	17.317	2.29	23.32	1.27
5.333	2.29	11.333	11.94	17.333	2.29	23.33	1.27
5.350	2.29	11.350	11.94	17.350	2.29	23.35	1.27
5.367	2.29	11.367	11.94	17.367	2.29	23.37	1.27
5.383	2.29	11.383	11.94	17.383	2.29	23.38	1.27
5.400	2.29	11.400	11.94	17.400	2.29	23.40	1.27
5.417	2.29	11.417	27.43	17.417	2.29	23.42	1.27
5.433	2.29	11.433	27.43	17.433	2.29	23.43	1.27
5.450	2.29	11.450	27.43	17.450	2.29	23.45	1.27
5.467	2.29	11.467	27.43	17.467	2.29	23.47	1.27
5.483	2.29	11.483	27.43	17.483	2.29	23.48	1.27
5.500	2.29	11.500	27.43	17.500	2.29	23.50	1.27
5.517	2.29	11.517	27.43	17.517	2.29	23.52	1.27
5.533	2.29	11.533	27.43	17.533	2.29	23.53	1.27
5.550	2.29	11.550	27.43	17.550	2.29	23.55	1.27
5.567	2.29	11.567	27.43	17.567	2.29	23.57	1.27
5.583	2.29	11.583	27.43	17.583	2.29	23.58	1.27
5.600	2.29	11.600	27.43	17.600	2.29	23.60	1.27
5.617	2.29	11.617	59.93	17.617	2.29	23.62	1.27
5.633	2.29	11.633	59.94	17.633	2.29	23.63	1.27
5.650	2.29	11.650	59.94	17.650	2.29	23.65	1.27
5.667	2.29	11.667	59.94	17.667	2.29	23.67	1.27
5.683	2.29	11.683	59.94	17.683	2.29	23.68	1.27
5.700	2.29	11.700	59.94	17.700	2.29	23.70	1.27
5.717	2.29	11.717	59.94	17.717	2.29	23.72	1.27
5.733	2.29	11.733	59.94	17.733	2.29	23.73	1.27
5.750	2.29	11.750	59.94	17.750	2.29	23.75	1.27
5.767	2.29	11.767	59.94	17.767	2.29	23.77	1.27
5.783	2.29	11.783	59.94	17.783	2.29	23.78	1.27
5.800	2.29	11.800	59.94	17.800	2.29	23.80	1.27
5.817	2.29	11.817	126.45	17.817	2.29	23.82	1.27
5.833	2.29	11.833	126.49	17.833	2.29	23.83	1.27
5.850	2.29	11.850	126.49	17.850	2.29	23.85	1.27
5.867	2.29	11.867	126.49	17.867	2.29	23.87	1.27
5.883	2.29	11.883	126.49	17.883	2.29	23.88	1.27
5.900	2.29	11.900	126.49	17.900	2.29	23.90	1.27
5.917	2.29	11.917	126.49	17.917	2.29	23.92	1.27
5.933	2.29	11.933	126.49	17.933	2.29	23.93	1.27
5.950	2.29	11.950	126.49	17.950	2.29	23.95	1.27
5.967	2.29	11.967	126.49	17.967	2.29	23.97	1.27
5.983	2.29	11.983	126.49	17.983	2.29	23.98	1.27
6.000	2.29	12.000	126.49	18.000	2.29	24.00	1.27

Max.Eff.Inten.(mm/hr)=	126.49	103.87	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.21 (ii)	3.23 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.36	0.32	
			TOTALS
PEAK FLOW (cms)=	0.11	0.00	0.108 (iii)
TIME TO PEAK (hrs)=	12.00	12.00	12.00
RUNOFF VOLUME (mm)=	111.44	79.03	111.12
TOTAL RAINFALL (mm)=	112.45	112.45	112.45
RUNOFF COEFFICIENT =	0.99	0.70	0.99

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR(  0102)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0440      0.0083
                          0.0220     0.0041   |   0.0660      0.0124

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2013)      0.310     0.108     12.00     111.12
   OUTFLOW: ID= 1 (  0102)      0.310     0.049     12.08     110.97

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 45.01
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0091

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
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--------------------
| ADD HYD  (  0001)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0101):     0.23   0.039    12.08   110.57
     + ID2= 2 (  0102):     0.31   0.049    12.08   110.97
       ================================================
       ID = 3 (  0001):     0.54   0.087    12.08   110.80

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| ADD HYD  (  0001)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 3 (  0001):     0.54   0.087    12.08   110.80
     + ID2= 2 (  0103):     0.15   0.026    12.07   110.87
       ================================================
       ID = 1 (  0001):     0.69   0.113    12.08   110.82

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| CALIB            |
| STANDHYD (  0204)|   Area    (ha)=   0.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  55.00   Dir. Conn.(%)=  55.00
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                          IMPERVIOUS    PERVIOUS (i)
Surface Area     (ha)=       0.18         0.15
Dep. Storage     (mm)=       1.00         5.00
Average Slope     (%)=       1.00         2.00
Length            (m)=      46.60        40.00
Mannings n           =      0.013        0.250

    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    1.27 | 6.083    2.29 |12.083   21.85 | 18.08    2.29
 0.167    1.27 | 6.167    2.29 |12.167   21.84 | 18.17    2.29
 0.250    1.27 | 6.250    2.29 |12.250   16.97 | 18.25    2.29
 0.333    1.27 | 6.333    2.29 |12.333   13.72 | 18.33    2.29
 0.417    1.27 | 6.417    2.29 |12.417   12.96 | 18.42    2.29
 0.500    1.27 | 6.500    2.29 |12.500    9.91 | 18.50    2.29
 0.583    1.27 | 6.583    2.29 |12.583    9.91 | 18.58    2.29
 0.667    1.27 | 6.667    2.29 |12.667    9.50 | 18.67    2.29
 0.750    1.27 | 6.750    2.29 |12.750    9.40 | 18.75    2.29
 0.833    1.27 | 6.833    2.29 |12.833    8.28 | 18.83    2.29
 0.917    1.27 | 6.917    2.29 |12.917    6.60 | 18.92    2.29
 1.000    1.27 | 7.000    2.29 |13.000    6.60 | 19.00    2.29
 1.083    1.27 | 7.083    2.29 |13.083    5.59 | 19.08    1.78
 1.167    1.27 | 7.167    2.29 |13.167    5.59 | 19.17    1.78
 1.250    1.27 | 7.250    2.29 |13.250    5.59 | 19.25    1.78
 1.333    1.27 | 7.333    2.29 |13.333    5.59 | 19.33    1.78
 1.417    1.27 | 7.417    2.29 |13.417    5.59 | 19.42    1.78
 1.500    1.27 | 7.500    2.29 |13.500    5.59 | 19.50    1.78
 1.583    1.27 | 7.583    2.29 |13.583    5.59 | 19.58    1.78
 1.667    1.27 | 7.667    2.29 |13.667    5.59 | 19.67    1.78
 1.750    1.27 | 7.750    2.29 |13.750    5.59 | 19.75    1.78
 1.833    1.27 | 7.833    2.29 |13.833    5.59 | 19.83    1.78
 1.917    1.27 | 7.917    2.29 |13.917    5.59 | 19.92    1.78
 2.000    1.27 | 8.000    2.29 |14.000    5.59 | 20.00    1.78
 2.083    1.27 | 8.083    3.30 |14.083    3.30 | 20.08    1.78
 2.167    1.27 | 8.167    3.30 |14.167    3.30 | 20.17    1.78
 2.250    1.27 | 8.250    3.30 |14.250    3.30 | 20.25    1.78
 2.333    1.27 | 8.333    3.30 |14.333    3.30 | 20.33    1.78
 2.417    1.27 | 8.417    3.30 |14.417    3.30 | 20.42    1.78
 2.500    1.27 | 8.500    3.30 |14.500    3.30 | 20.50    1.78
 2.583    1.27 | 8.583    3.30 |14.583    3.30 | 20.58    1.78
 2.667    1.27 | 8.667    3.30 |14.667    3.30 | 20.67    1.78
 2.750    1.27 | 8.750    3.30 |14.750    3.30 | 20.75    1.78
 2.833    1.27 | 8.833    3.30 |14.833    3.30 | 20.83    1.78
 2.917    1.27 | 8.917    3.30 |14.917    3.30 | 20.92    1.78
 3.000    1.27 | 9.000    3.30 |15.000    3.30 | 21.00    1.78
 3.083    1.27 | 9.083    3.30 |15.083    3.30 | 21.08    1.27
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3.167	1.27	9.167	3.30	15.167	3.30	21.17	1.27
3.250	1.27	9.250	3.30	15.250	3.30	21.25	1.27
3.333	1.27	9.333	3.30	15.333	3.30	21.33	1.27
3.417	1.27	9.417	3.30	15.417	3.30	21.42	1.27
3.500	1.27	9.500	3.30	15.500	3.30	21.50	1.27
3.583	1.27	9.583	3.30	15.583	3.30	21.58	1.27
3.667	1.27	9.667	3.30	15.667	3.30	21.67	1.27
3.750	1.27	9.750	3.30	15.750	3.30	21.75	1.27
3.833	1.27	9.833	3.30	15.833	3.30	21.83	1.27
3.917	1.27	9.917	3.30	15.917	3.30	21.92	1.27
4.000	1.27	10.000	3.30	16.000	3.30	22.00	1.27
4.083	2.29	10.083	6.10	16.083	2.29	22.08	1.27
4.167	2.29	10.167	6.10	16.167	2.29	22.17	1.27
4.250	2.29	10.250	6.10	16.250	2.29	22.25	1.27
4.333	2.29	10.333	6.10	16.333	2.29	22.33	1.27
4.417	2.29	10.417	6.10	16.417	2.29	22.42	1.27
4.500	2.29	10.500	6.10	16.500	2.29	22.50	1.27
4.583	2.29	10.583	6.10	16.583	2.29	22.58	1.27
4.667	2.29	10.667	6.10	16.667	2.29	22.67	1.27
4.750	2.29	10.750	6.10	16.750	2.29	22.75	1.27
4.833	2.29	10.833	6.10	16.833	2.29	22.83	1.27
4.917	2.29	10.917	6.10	16.917	2.29	22.92	1.27
5.000	2.29	11.000	6.10	17.000	2.29	23.00	1.27
5.083	2.29	11.083	8.13	17.083	2.29	23.08	1.27
5.167	2.29	11.167	8.13	17.167	2.29	23.17	1.27
5.250	2.29	11.250	10.42	17.250	2.29	23.25	1.27
5.333	2.29	11.333	11.94	17.333	2.29	23.33	1.27
5.417	2.29	11.417	15.04	17.417	2.29	23.42	1.27
5.500	2.29	11.500	27.43	17.500	2.29	23.50	1.27
5.583	2.29	11.583	27.43	17.583	2.29	23.58	1.27
5.667	2.29	11.667	53.43	17.667	2.29	23.67	1.27
5.750	2.29	11.750	59.94	17.750	2.29	23.75	1.27
5.833	2.29	11.833	86.55	17.833	2.29	23.83	1.27
5.917	2.29	11.917	126.49	17.917	2.29	23.92	1.27
6.000	2.29	12.000	126.49	18.000	2.29	24.00	1.27

Max.Eff.Inten.(mm/hr)=	126.49	54.80	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.47 (ii)	10.45 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.33	0.09	
			TOTALS
PEAK FLOW (cms)=	0.06	0.01	0.075 (iii)
TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	111.45	40.66	79.57
TOTAL RAINFALL (mm)=	112.45	112.45	112.45
RUNOFF COEFFICIENT =	0.99	0.36	0.71

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0002)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
	ID1= 1 (0001):	0.69	0.113	12.08	110.82
	+ ID2= 2 (2011):	1.84	0.545	12.00	95.17
	ID = 3 (0002):	2.53	0.644	12.00	99.42

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0002)		AREA	QPEAK	TPEAK	R.V.
3 + 2 = 1		(ha)	(cms)	(hrs)	(mm)
	ID1= 3 (0002):	2.53	0.644	12.00	99.42
	+ ID2= 2 (0204):	0.33	0.075	12.00	79.57
	ID = 1 (0002):	2.85	0.718	12.00	97.15

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CHAMBER(0025)	OUTFLOW: ON, UNDERDRAIN: OFF, INFIL: OFF
IN= 2--> OUT= 3	CHAMBER:
DT= 5.0 min	MAX STO VOL (cu.m.)= 710.04 Bottom Area(m2) = 614.46

DEPTH (mm)	STORAGE (cu.m.)	DEPTH (mm)	STORAGE (cu.m.)
0.00	0.00	864.00	430.26
25.00	13.40	889.00	441.69
51.00	26.76	914.00	453.02
76.00	40.09	940.00	464.23
102.00	53.40	965.00	475.34
127.00	66.68	991.00	486.32
152.00	79.92	1016.00	497.18
178.00	93.14	1041.00	507.92
203.00	106.32	1067.00	518.52
229.00	119.46	1092.00	528.98
254.00	132.57	1118.00	539.29
279.00	145.64	1143.00	549.44

305.00	158.66	|	1168.00	559.43
330.00	171.65	|	1194.00	569.25
356.00	184.58	|	1219.00	578.88
381.00	197.47	|	1245.00	588.32
406.00	210.31	|	1270.00	597.54
432.00	223.09	|	1295.00	606.52
457.00	235.83	|	1321.00	615.24
483.00	248.51	|	1346.00	623.67
508.00	261.13	|	1372.00	631.72
533.00	273.68	|	1397.00	639.20
559.00	286.18	|	1422.00	646.18
584.00	298.61	|	1448.00	653.00
610.00	310.97	|	1473.00	659.69
635.00	323.26	|	1499.00	666.24
660.00	335.48	|	1524.00	672.59
686.00	347.62	|	1549.00	678.83
711.00	359.68	|	1575.00	685.08
737.00	371.67	|	1600.00	691.32
762.00	383.57	|	1626.00	697.56
787.00	395.38	|	1651.00	703.80
813.00	407.10	|	1676.00	710.04
838.00	418.73	|	0.00	0.00

DEPTH (m)	DISCHARGE (cms)	|	DEPTH (m)	DISCHARGE (cms)
0.000	0.000	|	1.255	0.504
0.455	0.000	|	1.355	0.535
0.555	0.178	|	1.455	0.564
0.655	0.252	|	1.555	0.591
0.755	0.309	|	1.655	0.617
0.855	0.356	|	1.755	0.643
0.955	0.399	|	1.855	0.667
1.055	0.437	|	1.955	0.690
1.155	0.472	|	2.055	0.713

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW:ID= 2	2.85	0.718	12.00	97.15
OUTFLOW:ID= 1	2.85	0.465	12.05	88.92
OVERFLOW:ID= 3	0.00	0.000	0.00	0.00

Volume Reduction Rate[(RVin-RVout)/RVin](%)= 8.48
Time to reach Max storage (Hr)= 12.05
Volume of water for drawdown in LID (cu.m.)= 234.86
Volume of maximum water storage (cu.m.)= 517.75
***** After simulation, water volume is not zero.

| Junction Command(0034) |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

| Junction Command(0035) |

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.46	12.05	88.92
OUTFLOW: ID= 2(0035)	2.85	0.46	12.05	88.92

| CALIB |
| STANDHYD (0202)|
|ID= 1 DT= 5.0 min |

Area (ha)= 0.10
Total Imp(%)= 11.00 Dir. Conn.(%)= 11.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.09
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	25.66	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	|	TIME hrs	RAIN mm/hr	|	TIME hrs	RAIN mm/hr	|	TIME hrs	RAIN mm/hr
0.083	1.27	|	6.083	2.29	|	12.083	21.85	|	18.08	2.29
0.167	1.27	|	6.167	2.29	|	12.167	21.84	|	18.17	2.29
0.250	1.27	|	6.250	2.29	|	12.250	16.97	|	18.25	2.29
0.333	1.27	|	6.333	2.29	|	12.333	13.72	|	18.33	2.29
0.417	1.27	|	6.417	2.29	|	12.417	12.96	|	18.42	2.29
0.500	1.27	|	6.500	2.29	|	12.500	9.91	|	18.50	2.29
0.583	1.27	|	6.583	2.29	|	12.583	9.91	|	18.58	2.29
0.667	1.27	|	6.667	2.29	|	12.667	9.50	|	18.67	2.29
0.750	1.27	|	6.750	2.29	|	12.750	9.40	|	18.75	2.29
0.833	1.27	|	6.833	2.29	|	12.833	8.28	|	18.83	2.29
0.917	1.27	|	6.917	2.29	|	12.917	6.60	|	18.92	2.29
1.000	1.27	|	7.000	2.29	|	13.000	6.60	|	19.00	2.29
1.083	1.27	|	7.083	2.29	|	13.083	5.59	|	19.08	1.78
1.167	1.27	|	7.167	2.29	|	13.167	5.59	|	19.17	1.78

1.250	1.27	7.250	2.29	13.250	5.59	19.25	1.78
1.333	1.27	7.333	2.29	13.333	5.59	19.33	1.78
1.417	1.27	7.417	2.29	13.417	5.59	19.42	1.78
1.500	1.27	7.500	2.29	13.500	5.59	19.50	1.78
1.583	1.27	7.583	2.29	13.583	5.59	19.58	1.78
1.667	1.27	7.667	2.29	13.667	5.59	19.67	1.78
1.750	1.27	7.750	2.29	13.750	5.59	19.75	1.78
1.833	1.27	7.833	2.29	13.833	5.59	19.83	1.78
1.917	1.27	7.917	2.29	13.917	5.59	19.92	1.78
2.000	1.27	8.000	2.29	14.000	5.59	20.00	1.78
2.083	1.27	8.083	3.30	14.083	3.30	20.08	1.78
2.167	1.27	8.167	3.30	14.167	3.30	20.17	1.78
2.250	1.27	8.250	3.30	14.250	3.30	20.25	1.78
2.333	1.27	8.333	3.30	14.333	3.30	20.33	1.78
2.417	1.27	8.417	3.30	14.417	3.30	20.42	1.78
2.500	1.27	8.500	3.30	14.500	3.30	20.50	1.78
2.583	1.27	8.583	3.30	14.583	3.30	20.58	1.78
2.667	1.27	8.667	3.30	14.667	3.30	20.67	1.78
2.750	1.27	8.750	3.30	14.750	3.30	20.75	1.78
2.833	1.27	8.833	3.30	14.833	3.30	20.83	1.78
2.917	1.27	8.917	3.30	14.917	3.30	20.92	1.78
3.000	1.27	9.000	3.30	15.000	3.30	21.00	1.78
3.083	1.27	9.083	3.30	15.083	3.30	21.08	1.27
3.167	1.27	9.167	3.30	15.167	3.30	21.17	1.27
3.250	1.27	9.250	3.30	15.250	3.30	21.25	1.27
3.333	1.27	9.333	3.30	15.333	3.30	21.33	1.27
3.417	1.27	9.417	3.30	15.417	3.30	21.42	1.27
3.500	1.27	9.500	3.30	15.500	3.30	21.50	1.27
3.583	1.27	9.583	3.30	15.583	3.30	21.58	1.27
3.667	1.27	9.667	3.30	15.667	3.30	21.67	1.27
3.750	1.27	9.750	3.30	15.750	3.30	21.75	1.27
3.833	1.27	9.833	3.30	15.833	3.30	21.83	1.27
3.917	1.27	9.917	3.30	15.917	3.30	21.92	1.27
4.000	1.27	10.000	3.30	16.000	3.30	22.00	1.27
4.083	2.29	10.083	6.10	16.083	2.29	22.08	1.27
4.167	2.29	10.167	6.10	16.167	2.29	22.17	1.27
4.250	2.29	10.250	6.10	16.250	2.29	22.25	1.27
4.333	2.29	10.333	6.10	16.333	2.29	22.33	1.27
4.417	2.29	10.417	6.10	16.417	2.29	22.42	1.27
4.500	2.29	10.500	6.10	16.500	2.29	22.50	1.27
4.583	2.29	10.583	6.10	16.583	2.29	22.58	1.27
4.667	2.29	10.667	6.10	16.667	2.29	22.67	1.27
4.750	2.29	10.750	6.10	16.750	2.29	22.75	1.27
4.833	2.29	10.833	6.10	16.833	2.29	22.83	1.27
4.917	2.29	10.917	6.10	16.917	2.29	22.92	1.27
5.000	2.29	11.000	6.10	17.000	2.29	23.00	1.27
5.083	2.29	11.083	8.13	17.083	2.29	23.08	1.27
5.167	2.29	11.167	8.13	17.167	2.29	23.17	1.27
5.250	2.29	11.250	10.42	17.250	2.29	23.25	1.27
5.333	2.29	11.333	11.94	17.333	2.29	23.33	1.27
5.417	2.29	11.417	15.04	17.417	2.29	23.42	1.27
5.500	2.29	11.500	27.43	17.500	2.29	23.50	1.27
5.583	2.29	11.583	27.43	17.583	2.29	23.58	1.27
5.667	2.29	11.667	53.43	17.667	2.29	23.67	1.27
5.750	2.29	11.750	59.94	17.750	2.29	23.75	1.27
5.833	2.29	11.833	86.55	17.833	2.29	23.83	1.27
5.917	2.29	11.917	126.49	17.917	2.29	23.92	1.27
6.000	2.29	12.000	126.49	18.000	2.29	24.00	1.27

Max.Eff.Inten.(mm/hr)=	126.49	54.80	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.03 (ii)	10.01 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.34	0.10	
			TOTALS
PEAK FLOW (cms)=	0.00	0.01	0.011 (iii)
TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	111.45	40.66	48.38
TOTAL RAINFALL (mm)=	112.45	112.45	112.45
RUNOFF COEFFICIENT =	0.99	0.36	0.43

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0203)	Area (ha)=	0.05	
ID= 1 DT= 5.0 min	Total Imp(%)=	27.00	Dir. Conn.(%)= 27.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.04
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	18.90	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr

0.083	1.27	6.083	2.29	12.083	21.85	18.08	2.29
0.167	1.27	6.167	2.29	12.167	21.84	18.17	2.29
0.250	1.27	6.250	2.29	12.250	16.97	18.25	2.29
0.333	1.27	6.333	2.29	12.333	13.72	18.33	2.29
0.417	1.27	6.417	2.29	12.417	12.96	18.42	2.29
0.500	1.27	6.500	2.29	12.500	9.91	18.50	2.29
0.583	1.27	6.583	2.29	12.583	9.91	18.58	2.29
0.667	1.27	6.667	2.29	12.667	9.50	18.67	2.29
0.750	1.27	6.750	2.29	12.750	9.40	18.75	2.29
0.833	1.27	6.833	2.29	12.833	8.28	18.83	2.29
0.917	1.27	6.917	2.29	12.917	6.60	18.92	2.29
1.000	1.27	7.000	2.29	13.000	6.60	19.00	2.29
1.083	1.27	7.083	2.29	13.083	5.59	19.08	1.78
1.167	1.27	7.167	2.29	13.167	5.59	19.17	1.78
1.250	1.27	7.250	2.29	13.250	5.59	19.25	1.78
1.333	1.27	7.333	2.29	13.333	5.59	19.33	1.78
1.417	1.27	7.417	2.29	13.417	5.59	19.42	1.78
1.500	1.27	7.500	2.29	13.500	5.59	19.50	1.78
1.583	1.27	7.583	2.29	13.583	5.59	19.58	1.78
1.667	1.27	7.667	2.29	13.667	5.59	19.67	1.78
1.750	1.27	7.750	2.29	13.750	5.59	19.75	1.78
1.833	1.27	7.833	2.29	13.833	5.59	19.83	1.78
1.917	1.27	7.917	2.29	13.917	5.59	19.92	1.78
2.000	1.27	8.000	2.29	14.000	5.59	20.00	1.78
2.083	1.27	8.083	3.30	14.083	3.30	20.08	1.78
2.167	1.27	8.167	3.30	14.167	3.30	20.17	1.78
2.250	1.27	8.250	3.30	14.250	3.30	20.25	1.78
2.333	1.27	8.333	3.30	14.333	3.30	20.33	1.78
2.417	1.27	8.417	3.30	14.417	3.30	20.42	1.78
2.500	1.27	8.500	3.30	14.500	3.30	20.50	1.78
2.583	1.27	8.583	3.30	14.583	3.30	20.58	1.78
2.667	1.27	8.667	3.30	14.667	3.30	20.67	1.78
2.750	1.27	8.750	3.30	14.750	3.30	20.75	1.78
2.833	1.27	8.833	3.30	14.833	3.30	20.83	1.78
2.917	1.27	8.917	3.30	14.917	3.30	20.92	1.78
3.000	1.27	9.000	3.30	15.000	3.30	21.00	1.78
3.083	1.27	9.083	3.30	15.083	3.30	21.08	1.27
3.167	1.27	9.167	3.30	15.167	3.30	21.17	1.27
3.250	1.27	9.250	3.30	15.250	3.30	21.25	1.27
3.333	1.27	9.333	3.30	15.333	3.30	21.33	1.27
3.417	1.27	9.417	3.30	15.417	3.30	21.42	1.27
3.500	1.27	9.500	3.30	15.500	3.30	21.50	1.27
3.583	1.27	9.583	3.30	15.583	3.30	21.58	1.27
3.667	1.27	9.667	3.30	15.667	3.30	21.67	1.27
3.750	1.27	9.750	3.30	15.750	3.30	21.75	1.27
3.833	1.27	9.833	3.30	15.833	3.30	21.83	1.27
3.917	1.27	9.917	3.30	15.917	3.30	21.92	1.27
4.000	1.27	10.000	3.30	16.000	3.30	22.00	1.27
4.083	2.29	10.083	6.10	16.083	2.29	22.08	1.27
4.167	2.29	10.167	6.10	16.167	2.29	22.17	1.27
4.250	2.29	10.250	6.10	16.250	2.29	22.25	1.27
4.333	2.29	10.333	6.10	16.333	2.29	22.33	1.27
4.417	2.29	10.417	6.10	16.417	2.29	22.42	1.27
4.500	2.29	10.500	6.10	16.500	2.29	22.50	1.27
4.583	2.29	10.583	6.10	16.583	2.29	22.58	1.27
4.667	2.29	10.667	6.10	16.667	2.29	22.67	1.27
4.750	2.29	10.750	6.10	16.750	2.29	22.75	1.27
4.833	2.29	10.833	6.10	16.833	2.29	22.83	1.27
4.917	2.29	10.917	6.10	16.917	2.29	22.92	1.27
5.000	2.29	11.000	6.10	17.000	2.29	23.00	1.27
5.083	2.29	11.083	8.13	17.083	2.29	23.08	1.27
5.167	2.29	11.167	8.13	17.167	2.29	23.17	1.27
5.250	2.29	11.250	10.42	17.250	2.29	23.25	1.27
5.333	2.29	11.333	11.94	17.333	2.29	23.33	1.27
5.417	2.29	11.417	15.04	17.417	2.29	23.42	1.27
5.500	2.29	11.500	27.43	17.500	2.29	23.50	1.27
5.583	2.29	11.583	27.43	17.583	2.29	23.58	1.27
5.667	2.29	11.667	53.43	17.667	2.29	23.67	1.27
5.750	2.29	11.750	59.94	17.750	2.29	23.75	1.27
5.833	2.29	11.833	86.55	17.833	2.29	23.83	1.27
5.917	2.29	11.917	126.49	17.917	2.29	23.92	1.27
6.000	2.29	12.000	126.49	18.000	2.29	24.00	1.27

Max.Eff.Inten.(mm/hr)=	126.49	54.80	
over (min)	5.00	10.00	
Storage Coeff. (min)=	0.86 (ii)	9.83 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.34	0.11	
			TOTALS
PEAK FLOW (cms)=	0.01	0.00	0.009 (iii)
TIME TO PEAK (hrs)=	12.00	12.08	12.00
RUNOFF VOLUME (mm)=	111.45	40.66	59.67
TOTAL RAINFALL (mm)=	112.45	112.45	112.45
RUNOFF COEFFICIENT =	0.99	0.36	0.53

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0003)					
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0202):	0.10	0.011	12.00	48.38	

```
      + ID2= 2 (  0203):     0.05   0.009    12.00    59.67
        ================================================
        ID = 3 (  0003):     0.15   0.020    12.00    52.35

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
*** W A R N I N G :  HYDROGRAPH   0034 <ID= 2> IS DRY.
*** W A R N I N G :  HYDROGRAPH   0001 = HYDROGRAPH 0003
        ID1= 3 (  0003):     0.15   0.020    12.00    52.35
      + ID2= 2 (  0034):     0.00   0.000     0.00     0.00
        ================================================
        ID = 1 (  0003):     0.15   0.020    12.00    52.35

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 1 (  0003):     0.15   0.020    12.00    52.35
      + ID2= 2 (  0035):     2.85   0.465    12.05    88.92
        ================================================
        ID = 3 (  0003):     3.00   0.481    12.05    87.07

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
*******************************************
** SIMULATION:2.0 2Y4H Chicago Design Storm **
*******************************************

--------------------
|    READ STORM    |    Filename: C:\Users\CAAS077425\AppD
|                  |              ata\Local\Temp\
|                  |              928a9435-1a45-4733-a537-3482c3d30588\88dde67e
| Ptotal= 34.77 mm |    Comments: 2Y4H Chicago Design Storm
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
                0.00    0.00 |  1.17    4.80 |  2.33    7.20 |  3.50    2.40
                0.17    2.30 |  1.33    6.10 |  2.50    5.40 |  3.67    2.20
                0.33    2.50 |  1.50    8.60 |  2.67    4.40 |  3.83    2.10
                0.50    2.70 |  1.67   15.00 |  2.83    3.70 |  4.00    2.00
                0.67    3.00 |  1.83   82.00 |  3.00    3.20 |
                0.83    3.50 |  2.00   25.00 |  3.17    2.90 |
                1.00    4.00 |  2.17   11.00 |  3.33    2.60 |
--------------------------------------------------------------------------------

--------------------
| CALIB            |
| STANDHYD (  2011)|   Area    (ha)=   1.84
|ID= 1 DT= 5.0 min |   Total Imp(%)=  77.00   Dir. Conn.(%)=  77.00
--------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       1.42         0.42
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     110.72        40.00
     Mannings n           =      0.013        0.250

         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    0.00 | 1.167    4.00 | 2.250   11.00 |  3.33    2.90
               0.167    0.00 | 1.250    4.80 | 2.333   11.00 |  3.42    2.60
               0.250    2.30 | 1.333    4.80 | 2.417    7.20 |  3.50    2.60
               0.333    2.30 | 1.417    6.10 | 2.500    7.20 |  3.58    2.40
               0.417    2.50 | 1.500    6.10 | 2.583    5.40 |  3.67    2.40
               0.500    2.50 | 1.583    8.60 | 2.667    5.40 |  3.75    2.20
               0.583    2.70 | 1.667    8.60 | 2.750    4.40 |  3.83    2.20
               0.667    2.70 | 1.750   15.00 | 2.833    4.40 |  3.92    2.10
               0.750    3.00 | 1.833   15.00 | 2.917    3.70 |  4.00    2.10
               0.833    3.00 | 1.917   82.00 | 3.000    3.70 |  4.08    2.00
               0.917    3.50 | 2.000   82.00 | 3.083    3.20 |  4.17    2.00
               1.000    3.50 | 2.083   25.00 | 3.167    3.20 |
               1.083    4.00 | 2.167   25.00 | 3.250    2.90 |

     Max.Eff.Inten.(mm/hr)=      82.00         8.92
               over (min)        5.00        10.00
     Storage Coeff.  (min)=       2.94 (ii)    7.65 (ii)
     Unit Hyd. Tpeak (min)=       5.00        10.00
     Unit Hyd. peak  (cms)=       0.28         0.13
                                                          *TOTALS*
     PEAK FLOW       (cms)=       0.31         0.01          0.319 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.08          2.00
     RUNOFF VOLUME    (mm)=      33.77         4.30         26.99
     TOTAL RAINFALL   (mm)=      34.77        34.77         34.77
     RUNOFF COEFFICIENT   =       0.97         0.12          0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
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(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (2012)	Area (ha)= 0.23
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.23	0.00
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.50	2.00
Length	(m)=	67.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	4.00	2.117	25.00	3.17	3.20
0.033	0.00	1.083	4.00	2.133	25.00	3.18	2.90
0.050	0.00	1.100	4.00	2.150	25.00	3.20	2.90
0.067	0.00	1.117	4.00	2.167	25.00	3.22	2.90
0.083	0.00	1.133	4.00	2.183	11.00	3.23	2.90
0.100	0.00	1.150	4.00	2.200	11.00	3.25	2.90
0.117	0.00	1.167	4.00	2.217	11.00	3.27	2.90
0.133	0.00	1.183	4.80	2.233	11.00	3.28	2.90
0.150	0.00	1.200	4.80	2.250	11.00	3.30	2.90
0.167	0.00	1.217	4.80	2.267	11.00	3.32	2.90
0.183	2.30	1.233	4.80	2.283	11.00	3.33	2.90
0.200	2.30	1.250	4.80	2.300	11.00	3.35	2.60
0.217	2.30	1.267	4.80	2.317	11.00	3.37	2.60
0.233	2.30	1.283	4.80	2.333	11.00	3.38	2.60
0.250	2.30	1.300	4.80	2.350	7.20	3.40	2.60
0.267	2.30	1.317	4.80	2.367	7.20	3.42	2.60
0.283	2.30	1.333	4.80	2.383	7.20	3.43	2.60
0.300	2.30	1.350	6.10	2.400	7.20	3.45	2.60
0.317	2.30	1.367	6.10	2.417	7.20	3.47	2.60
0.333	2.30	1.383	6.10	2.433	7.20	3.48	2.60
0.350	2.50	1.400	6.10	2.450	7.20	3.50	2.60
0.367	2.50	1.417	6.10	2.467	7.20	3.52	2.40
0.383	2.50	1.433	6.10	2.483	7.20	3.53	2.40
0.400	2.50	1.450	6.10	2.500	7.20	3.55	2.40
0.417	2.50	1.467	6.10	2.517	5.40	3.57	2.40
0.433	2.50	1.483	6.10	2.533	5.40	3.58	2.40
0.450	2.50	1.500	6.10	2.550	5.40	3.60	2.40
0.467	2.50	1.517	8.60	2.567	5.40	3.62	2.40
0.483	2.50	1.533	8.60	2.583	5.40	3.63	2.40
0.500	2.50	1.550	8.60	2.600	5.40	3.65	2.40
0.517	2.70	1.567	8.60	2.617	5.40	3.67	2.40
0.533	2.70	1.583	8.60	2.633	5.40	3.68	2.20
0.550	2.70	1.600	8.60	2.650	5.40	3.70	2.20
0.567	2.70	1.617	8.60	2.667	5.40	3.72	2.20
0.583	2.70	1.633	8.60	2.683	4.40	3.73	2.20
0.600	2.70	1.650	8.60	2.700	4.40	3.75	2.20
0.617	2.70	1.667	8.60	2.717	4.40	3.77	2.20
0.633	2.70	1.683	15.00	2.733	4.40	3.78	2.20
0.650	2.70	1.700	15.00	2.750	4.40	3.80	2.20
0.667	2.70	1.717	15.00	2.767	4.40	3.82	2.20
0.683	3.00	1.733	15.00	2.783	4.40	3.83	2.20
0.700	3.00	1.750	15.00	2.800	4.40	3.85	2.10
0.717	3.00	1.767	15.00	2.817	4.40	3.87	2.10
0.733	3.00	1.783	15.00	2.833	4.40	3.88	2.10
0.750	3.00	1.800	15.00	2.850	3.70	3.90	2.10
0.767	3.00	1.817	15.00	2.867	3.70	3.92	2.10
0.783	3.00	1.833	15.00	2.883	3.70	3.93	2.10
0.800	3.00	1.850	82.00	2.900	3.70	3.95	2.10
0.817	3.00	1.867	82.00	2.917	3.70	3.97	2.10
0.833	3.00	1.883	82.00	2.933	3.70	3.98	2.10
0.850	3.50	1.900	82.00	2.950	3.70	4.00	2.10
0.867	3.50	1.917	82.00	2.967	3.70	4.02	2.00
0.883	3.50	1.933	82.00	2.983	3.70	4.03	2.00
0.900	3.50	1.950	82.00	3.000	3.70	4.05	2.00
0.917	3.50	1.967	82.00	3.017	3.20	4.07	2.00
0.933	3.50	1.983	82.00	3.033	3.20	4.08	2.00
0.950	3.50	2.000	82.00	3.050	3.20	4.10	2.00
0.967	3.50	2.017	25.00	3.067	3.20	4.12	2.00
0.983	3.50	2.033	25.00	3.083	3.20	4.13	2.00
1.000	3.50	2.050	25.00	3.100	3.20	4.15	2.00
1.017	4.00	2.067	25.00	3.117	3.20	4.17	2.00
1.033	4.00	2.083	25.00	3.133	3.20		
1.050	4.00	2.100	25.00	3.150	3.20		

Max.Eff.Inten.(mm/hr)=	82.00	8.95		
over (min)	5.00	4.00		
Storage Coeff. (min)=	2.68 (ii)	3.89 (ii)		
Unit Hyd. Tpeak (min)=	5.00	4.00		
Unit Hyd. peak (cms)=	0.33	0.29		
				TOTALS
PEAK FLOW (cms)=	0.05	0.00		0.049 (iii)
TIME TO PEAK (hrs)=	2.00	2.03		2.00
RUNOFF VOLUME (mm)=	33.77	4.30		33.46
TOTAL RAINFALL (mm)=	34.77	34.77		34.77
RUNOFF COEFFICIENT =	0.97	0.12		0.96

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0101)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min |

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0380	0.0061
0.0190	0.0030	0.0570	0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.049	2.00	33.46
OUTFLOW: ID= 1 (0101)	0.229	0.019	2.15	33.29

PEAK FLOW REDUCTION [Qout/Qin](%)= 39.02
TIME SHIFT OF PEAK FLOW (min)= 9.00
MAXIMUM STORAGE USED (ha.m.)= 0.0030

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

| CALIB |
| STANDHYD (2014)| Area (ha)= 0.15
|ID= 1 DT= 1.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.15	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	31.44	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	4.00	2.117	25.00	3.17	3.20
0.033	0.00	1.083	4.00	2.133	25.00	3.18	2.90
0.050	0.00	1.100	4.00	2.150	25.00	3.20	2.90
0.067	0.00	1.117	4.00	2.167	25.00	3.22	2.90
0.083	0.00	1.133	4.00	2.183	11.00	3.23	2.90
0.100	0.00	1.150	4.00	2.200	11.00	3.25	2.90
0.117	0.00	1.167	4.00	2.217	11.00	3.27	2.90
0.133	0.00	1.183	4.80	2.233	11.00	3.28	2.90
0.150	0.00	1.200	4.80	2.250	11.00	3.30	2.90
0.167	0.00	1.217	4.80	2.267	11.00	3.32	2.90
0.183	2.30	1.233	4.80	2.283	11.00	3.33	2.90
0.200	2.30	1.250	4.80	2.300	11.00	3.35	2.60
0.217	2.30	1.267	4.80	2.317	11.00	3.37	2.60
0.233	2.30	1.283	4.80	2.333	11.00	3.38	2.60
0.250	2.30	1.300	4.80	2.350	7.20	3.40	2.60
0.267	2.30	1.317	4.80	2.367	7.20	3.42	2.60
0.283	2.30	1.333	4.80	2.383	7.20	3.43	2.60
0.300	2.30	1.350	6.10	2.400	7.20	3.45	2.60
0.317	2.30	1.367	6.10	2.417	7.20	3.47	2.60
0.333	2.30	1.383	6.10	2.433	7.20	3.48	2.60
0.350	2.50	1.400	6.10	2.450	7.20	3.50	2.60
0.367	2.50	1.417	6.10	2.467	7.20	3.52	2.40
0.383	2.50	1.433	6.10	2.483	7.20	3.53	2.40
0.400	2.50	1.450	6.10	2.500	7.20	3.55	2.40
0.417	2.50	1.467	6.10	2.517	5.40	3.57	2.40
0.433	2.50	1.483	6.10	2.533	5.40	3.58	2.40
0.450	2.50	1.500	6.10	2.550	5.40	3.60	2.40
0.467	2.50	1.517	8.60	2.567	5.40	3.62	2.40
0.483	2.50	1.533	8.60	2.583	5.40	3.63	2.40
0.500	2.50	1.550	8.60	2.600	5.40	3.65	2.40
0.517	2.70	1.567	8.60	2.617	5.40	3.67	2.40
0.533	2.70	1.583	8.60	2.633	5.40	3.68	2.20
0.550	2.70	1.600	8.60	2.650	5.40	3.70	2.20
0.567	2.70	1.617	8.60	2.667	5.40	3.72	2.20
0.583	2.70	1.633	8.60	2.683	4.40	3.73	2.20
0.600	2.70	1.650	8.60	2.700	4.40	3.75	2.20
0.617	2.70	1.667	8.60	2.717	4.40	3.77	2.20
0.633	2.70	1.683	15.00	2.733	4.40	3.78	2.20
0.650	2.70	1.700	15.00	2.750	4.40	3.80	2.20
0.667	2.70	1.717	15.00	2.767	4.40	3.82	2.20
0.683	3.00	1.733	15.00	2.783	4.40	3.83	2.20
0.700	3.00	1.750	15.00	2.800	4.40	3.85	2.10
0.717	3.00	1.767	15.00	2.817	4.40	3.87	2.10
0.733	3.00	1.783	15.00	2.833	4.40	3.88	2.10
0.750	3.00	1.800	15.00	2.850	3.70	3.90	2.10
0.767	3.00	1.817	15.00	2.867	3.70	3.92	2.10
0.783	3.00	1.833	15.00	2.883	3.70	3.93	2.10
0.800	3.00	1.850	82.00	2.900	3.70	3.95	2.10
0.817	3.00	1.867	82.00	2.917	3.70	3.97	2.10
0.833	3.00	1.883	82.00	2.933	3.70	3.98	2.10
0.850	3.50	1.900	82.00	2.950	3.70	4.00	2.10
0.867	3.50	1.917	82.00	2.967	3.70	4.02	2.00
0.883	3.50	1.933	82.00	2.983	3.70	4.03	2.00
0.900	3.50	1.950	82.00	3.000	3.70	4.05	2.00

0.917	3.50	1.967	82.00	3.017	3.20	4.07	2.00
0.933	3.50	1.983	82.00	3.033	3.20	4.08	2.00
0.950	3.50	2.000	82.00	3.050	3.20	4.10	2.00
0.967	3.50	2.017	25.00	3.067	3.20	4.12	2.00
0.983	3.50	2.033	25.00	3.083	3.20	4.13	2.00
1.000	3.50	2.050	25.00	3.100	3.20	4.15	2.00
1.017	4.00	2.067	25.00	3.117	3.20	4.17	2.00
1.033	4.00	2.083	25.00	3.133	3.20		
1.050	4.00	2.100	25.00	3.150	3.20		

Max.Eff.Inten.(mm/hr)=	82.00	33.87	
over (min)	5.00	3.00	
Storage Coeff. (min)=	1.70 (ii)	2.92 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.40	0.38	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.033 (iii)
TIME TO PEAK (hrs)=	2.00	2.00	2.00
RUNOFF VOLUME (mm)=	33.77	14.17	33.56
TOTAL RAINFALL (mm)=	34.77	34.77	34.77
RUNOFF COEFFICIENT =	0.97	0.41	0.97

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0103)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0250	0.0040
	0.0130	0.0020	0.0380	0.0059

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2014)	0.148	0.033	2.00	33.56
OUTFLOW: ID= 1 (0103)	0.148	0.013	2.12	33.31

PEAK FLOW REDUCTION [Qout/Qin](%)= 38.57
TIME SHIFT OF PEAK FLOW (min)= 7.00
MAXIMUM STORAGE USED (ha.m.)= 0.0020

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB		
STANDHYD (2013)	Area (ha)=	0.31
ID= 1 DT= 1.0 min	Total Imp(%)=	99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.31	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	65.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	4.00	2.117	25.00	3.17	3.20
0.033	0.00	1.083	4.00	2.133	25.00	3.18	2.90
0.050	0.00	1.100	4.00	2.150	25.00	3.20	2.90
0.067	0.00	1.117	4.00	2.167	25.00	3.22	2.90
0.083	0.00	1.133	4.00	2.183	11.00	3.23	2.90
0.100	0.00	1.150	4.00	2.200	11.00	3.25	2.90
0.117	0.00	1.167	4.00	2.217	11.00	3.27	2.90
0.133	0.00	1.183	4.80	2.233	11.00	3.28	2.90
0.150	0.00	1.200	4.80	2.250	11.00	3.30	2.90
0.167	0.00	1.217	4.80	2.267	11.00	3.32	2.90
0.183	2.30	1.233	4.80	2.283	11.00	3.33	2.90
0.200	2.30	1.250	4.80	2.300	11.00	3.35	2.60
0.217	2.30	1.267	4.80	2.317	11.00	3.37	2.60
0.233	2.30	1.283	4.80	2.333	11.00	3.38	2.60
0.250	2.30	1.300	4.80	2.350	7.20	3.40	2.60
0.267	2.30	1.317	4.80	2.367	7.20	3.42	2.60
0.283	2.30	1.333	4.80	2.383	7.20	3.43	2.60
0.300	2.30	1.350	6.10	2.400	7.20	3.45	2.60
0.317	2.30	1.367	6.10	2.417	7.20	3.47	2.60
0.333	2.30	1.383	6.10	2.433	7.20	3.48	2.60
0.350	2.50	1.400	6.10	2.450	7.20	3.50	2.60
0.367	2.50	1.417	6.10	2.467	7.20	3.52	2.40
0.383	2.50	1.433	6.10	2.483	7.20	3.53	2.40
0.400	2.50	1.450	6.10	2.500	7.20	3.55	2.40
0.417	2.50	1.467	6.10	2.517	5.40	3.57	2.40
0.433	2.50	1.483	6.10	2.533	5.40	3.58	2.40
0.450	2.50	1.500	6.10	2.550	5.40	3.60	2.40
0.467	2.50	1.517	8.60	2.567	5.40	3.62	2.40
0.483	2.50	1.533	8.60	2.583	5.40	3.63	2.40
0.500	2.50	1.550	8.60	2.600	5.40	3.65	2.40
0.517	2.70	1.567	8.60	2.617	5.40	3.67	2.40
0.533	2.70	1.583	8.60	2.633	5.40	3.68	2.20
0.550	2.70	1.600	8.60	2.650	5.40	3.70	2.20

```
          0.567    2.70 | 1.617    8.60 | 2.667    5.40 |  3.72    2.20
          0.583    2.70 | 1.633    8.60 | 2.683    4.40 |  3.73    2.20
          0.600    2.70 | 1.650    8.60 | 2.700    4.40 |  3.75    2.20
          0.617    2.70 | 1.667    8.60 | 2.717    4.40 |  3.77    2.20
          0.633    2.70 | 1.683   15.00 | 2.733    4.40 |  3.78    2.20
          0.650    2.70 | 1.700   15.00 | 2.750    4.40 |  3.80    2.20
          0.667    2.70 | 1.717   15.00 | 2.767    4.40 |  3.82    2.20
          0.683    3.00 | 1.733   15.00 | 2.783    4.40 |  3.83    2.20
          0.700    3.00 | 1.750   15.00 | 2.800    4.40 |  3.85    2.10
          0.717    3.00 | 1.767   15.00 | 2.817    4.40 |  3.87    2.10
          0.733    3.00 | 1.783   15.00 | 2.833    4.40 |  3.88    2.10
          0.750    3.00 | 1.800   15.00 | 2.850    3.70 |  3.90    2.10
          0.767    3.00 | 1.817   15.00 | 2.867    3.70 |  3.92    2.10
          0.783    3.00 | 1.833   15.00 | 2.883    3.70 |  3.93    2.10
          0.800    3.00 | 1.850   82.00 | 2.900    3.70 |  3.95    2.10
          0.817    3.00 | 1.867   82.00 | 2.917    3.70 |  3.97    2.10
          0.833    3.00 | 1.883   82.00 | 2.933    3.70 |  3.98    2.10
          0.850    3.50 | 1.900   82.00 | 2.950    3.70 |  4.00    2.10
          0.867    3.50 | 1.917   82.00 | 2.967    3.70 |  4.02    2.00
          0.883    3.50 | 1.933   82.00 | 2.983    3.70 |  4.03    2.00
          0.900    3.50 | 1.950   82.00 | 3.000    3.70 |  4.05    2.00
          0.917    3.50 | 1.967   82.00 | 3.017    3.20 |  4.07    2.00
          0.933    3.50 | 1.983   82.00 | 3.033    3.20 |  4.08    2.00
          0.950    3.50 | 2.000   82.00 | 3.050    3.20 |  4.10    2.00
          0.967    3.50 | 2.017   25.00 | 3.067    3.20 |  4.12    2.00
          0.983    3.50 | 2.033   25.00 | 3.083    3.20 |  4.13    2.00
          1.000    3.50 | 2.050   25.00 | 3.100    3.20 |  4.15    2.00
          1.017    4.00 | 2.067   25.00 | 3.117    3.20 |  4.17    2.00
          1.033    4.00 | 2.083   25.00 | 3.133    3.20 |
          1.050    4.00 | 2.100   25.00 | 3.150    3.20 |

Max.Eff.Inten.(mm/hr)=      82.00        33.87
          over (min)         5.00         4.00
Storage Coeff.  (min)=       2.63 (ii)    3.85 (ii)
Unit Hyd. Tpeak (min)=       5.00         4.00
Unit Hyd. peak  (cms)=       0.33         0.29
                                                    *TOTALS*
PEAK FLOW       (cms)=       0.07         0.00          0.067 (iii)
TIME TO PEAK    (hrs)=       2.00         2.02           2.00
RUNOFF VOLUME    (mm)=      33.77        14.17          33.57
TOTAL RAINFALL   (mm)=      34.77        34.77          34.77
RUNOFF COEFFICIENT   =       0.97         0.41           0.97


  (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
       CN*  =  85.0    Ia = Dep. Storage  (Above)
 (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
      THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.
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| RESERVOIR(  0102)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0440      0.0083
                          0.0220     0.0041   |   0.0660      0.0124

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2013)      0.310      0.067      2.00      33.57
   OUTFLOW: ID= 1 (  0102)      0.310      0.023      2.18      33.42

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 35.30
                  TIME SHIFT OF PEAK FLOW         (min)= 11.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0044

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
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--------------------
| ADD HYD  (  0001)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 1 (  0101):     0.23   0.019     2.15    33.29
      + ID2= 2 (  0102):     0.31   0.023     2.18    33.42
        ================================================
        ID = 3 (  0001):     0.54   0.043     2.17    33.36

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| ADD HYD  (  0001)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 3 (  0001):     0.54   0.043     2.17    33.36
      + ID2= 2 (  0103):     0.15   0.013     2.12    33.31
        ================================================
        ID = 1 (  0001):     0.69   0.055     2.15    33.35

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0204)|   Area    (ha)=   0.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  55.00   Dir. Conn.(%)=  55.00
--------------------
                             IMPERVIOUS    PERVIOUS (i)
```

Surface Area	(ha)=	0.18	0.15
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	46.60	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	1.167	4.00	2.250	11.00	3.33	2.90
0.167	0.00	1.250	4.80	2.333	11.00	3.42	2.60
0.250	2.30	1.333	4.80	2.417	7.20	3.50	2.60
0.333	2.30	1.417	6.10	2.500	7.20	3.58	2.40
0.417	2.50	1.500	6.10	2.583	5.40	3.67	2.40
0.500	2.50	1.583	8.60	2.667	5.40	3.75	2.20
0.583	2.70	1.667	8.60	2.750	4.40	3.83	2.20
0.667	2.70	1.750	15.00	2.833	4.40	3.92	2.10
0.750	3.00	1.833	15.00	2.917	3.70	4.00	2.10
0.833	3.00	1.917	82.00	3.000	3.70	4.08	2.00
0.917	3.50	2.000	82.00	3.083	3.20	4.17	2.00
1.000	3.50	2.083	25.00	3.167	3.20		
1.083	4.00	2.167	25.00	3.250	2.90		

Max.Eff.Inten.(mm/hr)=	82.00	5.92		
over (min)	5.00	25.00		
Storage Coeff. (min)=	1.75 (ii)	23.62 (ii)		
Unit Hyd. Tpeak (min)=	5.00	25.00		
Unit Hyd. peak (cms)=	0.32	0.05		
			TOTALS	
PEAK FLOW (cms)=	0.04	0.00	0.041 (iii)	
TIME TO PEAK (hrs)=	2.00	2.33	2.00	
RUNOFF VOLUME (mm)=	33.77	4.30	20.46	
TOTAL RAINFALL (mm)=	34.77	34.77	34.77	
RUNOFF COEFFICIENT =	0.97	0.12	0.59	

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0002)|

1 + 2 = 3		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0001):		0.69	0.055	2.15	33.35
+ ID2= 2 (2011):		1.84	0.319	2.00	26.99
ID = 3 (0002):		2.53	0.358	2.00	28.72

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| ADD HYD (0002)|

3 + 2 = 1		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 3 (0002):		2.53	0.358	2.00	28.72
+ ID2= 2 (0204):		0.33	0.041	2.00	20.46
ID = 1 (0002):		2.85	0.399	2.00	27.77

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| CHAMBER(0025)| OUTFLOW: ON, UNDERDRAIN: OFF, INFIL: OFF
|IN= 2--> OUT= 3 | CHAMBER:
| DT= 5.0 min | MAX STO VOL (cu.m.)= 710.04 Bottom Area(m2) = 614.46

DEPTH (mm)	STORAGE (cu.m.)	DEPTH (mm)	STORAGE (cu.m.)
0.00	0.00	864.00	430.26
25.00	13.40	889.00	441.69
51.00	26.76	914.00	453.02
76.00	40.09	940.00	464.23
102.00	53.40	965.00	475.34
127.00	66.68	991.00	486.32
152.00	79.92	1016.00	497.18
178.00	93.14	1041.00	507.92
203.00	106.32	1067.00	518.52
229.00	119.46	1092.00	528.98
254.00	132.57	1118.00	539.29
279.00	145.64	1143.00	549.44
305.00	158.66	1168.00	559.43
330.00	171.65	1194.00	569.25
356.00	184.58	1219.00	578.88
381.00	197.47	1245.00	588.32
406.00	210.31	1270.00	597.54
432.00	223.09	1295.00	606.52
457.00	235.83	1321.00	615.24
483.00	248.51	1346.00	623.67
508.00	261.13	1372.00	631.72
533.00	273.68	1397.00	639.20

	559.00	286.18	1422.00	646.18
	584.00	298.61	1448.00	653.00
	610.00	310.97	1473.00	659.69
	635.00	323.26	1499.00	666.24
	660.00	335.48	1524.00	672.59
	686.00	347.62	1549.00	678.83
	711.00	359.68	1575.00	685.08
	737.00	371.67	1600.00	691.32
	762.00	383.57	1626.00	697.56
	787.00	395.38	1651.00	703.80
	813.00	407.10	1676.00	710.04
	838.00	418.73	0.00	0.00

DEPTH (m)	DISCHARGE (cms)	DEPTH (m)	DISCHARGE (cms)
0.000	0.000	1.255	0.504
0.455	0.000	1.355	0.535
0.555	0.178	1.455	0.564
0.655	0.252	1.555	0.591
0.755	0.309	1.655	0.617
0.855	0.356	1.755	0.643
0.955	0.399	1.855	0.667
1.055	0.437	1.955	0.690
1.155	0.472	2.055	0.713

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW:ID= 2	2.85	0.399	2.00	27.77
OUTFLOW:ID= 1	2.85	0.230	2.07	19.54
OVERFLOW:ID= 3	0.00	0.000	0.00	0.00

Volume Reduction Rate[(RVin-RVout)/RVin](%)= 29.65
Time to reach Max storage (Hr)= 2.07
Volume of water for drawdown in LID (cu.m.)= 234.86
Volume of maximum water storage (cu.m.)= 304.90
***** After simulation, water volume is not zero.

Junction Command(0034)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

Junction Command(0035)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.23	2.07	19.54
OUTFLOW: ID= 2(0035)	2.85	0.23	2.07	19.54

CALIB STANDHYD (0202) ID= 1 DT= 5.0 min	Area (ha)= 0.10 Total Imp(%)= 11.00 Dir. Conn.(%)= 11.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.09
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	25.66	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	1.167	4.00	2.250	11.00	3.33	2.90
0.167	0.00	1.250	4.80	2.333	11.00	3.42	2.60
0.250	2.30	1.333	4.80	2.417	7.20	3.50	2.60
0.333	2.30	1.417	6.10	2.500	7.20	3.58	2.40
0.417	2.50	1.500	6.10	2.583	5.40	3.67	2.40
0.500	2.50	1.583	8.60	2.667	5.40	3.75	2.20
0.583	2.70	1.667	8.60	2.750	4.40	3.83	2.20
0.667	2.70	1.750	15.00	2.833	4.40	3.92	2.10
0.750	3.00	1.833	15.00	2.917	3.70	4.00	2.10
0.833	3.00	1.917	82.00	3.000	3.70	4.08	2.00
0.917	3.50	2.000	82.00	3.083	3.20	4.17	2.00
1.000	3.50	2.083	25.00	3.167	3.20		
1.083	4.00	2.167	25.00	3.250	2.90		

Max.Eff.Inten.(mm/hr)=		82.00	5.92	
over (min)		5.00	25.00	
Storage Coeff. (min)=		1.22 (ii)	23.09 (ii)	
Unit Hyd. Tpeak (min)=		5.00	25.00	
Unit Hyd. peak (cms)=		0.33	0.05	
				TOTALS
PEAK FLOW	(cms)=	0.00	0.00	0.003 (iii)
TIME TO PEAK	(hrs)=	2.00	2.33	2.00
RUNOFF VOLUME	(mm)=	33.77	4.30	7.40
TOTAL RAINFALL	(mm)=	34.77	34.77	34.77

```
     RUNOFF COEFFICIENT   =       0.97         0.12          0.21

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
              YOU SHOULD CONSIDER SPLITTING THE AREA.

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB            |
| STANDHYD (  0203)|   Area    (ha)=   0.05
|ID= 1 DT= 5.0 min |   Total Imp(%)=  27.00   Dir. Conn.(%)=  27.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.01         0.04
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      18.90        40.00
     Mannings n           =      0.013        0.250

         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    0.00 | 1.167    4.00 | 2.250   11.00 |  3.33    2.90
    0.167    0.00 | 1.250    4.80 | 2.333   11.00 |  3.42    2.60
    0.250    2.30 | 1.333    4.80 | 2.417    7.20 |  3.50    2.60
    0.333    2.30 | 1.417    6.10 | 2.500    7.20 |  3.58    2.40
    0.417    2.50 | 1.500    6.10 | 2.583    5.40 |  3.67    2.40
    0.500    2.50 | 1.583    8.60 | 2.667    5.40 |  3.75    2.20
    0.583    2.70 | 1.667    8.60 | 2.750    4.40 |  3.83    2.20
    0.667    2.70 | 1.750   15.00 | 2.833    4.40 |  3.92    2.10
    0.750    3.00 | 1.833   15.00 | 2.917    3.70 |  4.00    2.10
    0.833    3.00 | 1.917   82.00 | 3.000    3.70 |  4.08    2.00
    0.917    3.50 | 2.000   82.00 | 3.083    3.20 |  4.17    2.00
    1.000    3.50 | 2.083   25.00 | 3.167    3.20 |
    1.083    4.00 | 2.167   25.00 | 3.250    2.90 |

     Max.Eff.Inten.(mm/hr)=      82.00         5.92
               over (min)        5.00        25.00
     Storage Coeff.  (min)=       1.02 (ii)   22.89 (ii)
     Unit Hyd. Tpeak (min)=       5.00        25.00
     Unit Hyd. peak  (cms)=       0.34         0.05
```

```
                                                          *TOTALS*
     PEAK FLOW       (cms)=       0.00         0.00          0.003 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.33           2.00
     RUNOFF VOLUME    (mm)=      33.77         4.30          12.01
     TOTAL RAINFALL   (mm)=      34.77        34.77          34.77
     RUNOFF COEFFICIENT   =       0.97         0.12           0.35

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0202):     0.10   0.003     2.00     7.40
     + ID2= 2 (  0203):     0.05   0.003     2.00    12.01
       ================================================
       ID = 3 (  0003):     0.15   0.006     2.00     9.02

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
*** W A R N I N G :  HYDROGRAPH   0034 <ID= 2> IS DRY.
*** W A R N I N G :  HYDROGRAPH   0001 = HYDROGRAPH 0003
       ID1= 3 (  0003):     0.15   0.006     2.00     9.02
     + ID2= 2 (  0034):     0.00   0.000     0.00     0.00
       ================================================
       ID = 1 (  0003):     0.15   0.006     2.00     9.02

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0003):     0.15   0.006     2.00     9.02
     + ID2= 2 (  0035):     2.85   0.230     2.07    19.54
       ================================================
```

```
        ID = 3 (  0003):     3.00   0.233     2.07    19.01

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
********************************************
** SIMULATION:2.1 5Y4H Chicago Design Storm **
********************************************

--------------------
|    READ STORM    |    Filename: C:\Users\CAAS077425\AppD
|                  |              ata\Local\Temp\
|                  |              928a9435-1a45-4733-a537-3482c3d30588\3e669d52
| Ptotal= 44.48 mm |    Comments: 5Y4H Chicago Design Storm
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
                0.00    0.00 |  1.17    6.20 |  2.33    9.20 |  3.50    3.00
                0.17    2.80 |  1.33    7.90 |  2.50    6.90 |  3.67    2.70
                0.33    3.10 |  1.50   11.00 |  2.67    5.60 |  3.83    2.60
                0.50    3.40 |  1.67   20.00 |  2.83    4.70 |  4.00    2.50
                0.67    3.80 |  1.83  113.00 |  3.00    4.10 |
                0.83    4.40 |  2.00   24.00 |  3.17    3.60 |
                1.00    5.10 |  2.17   14.00 |  3.33    3.30 |

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--------------------
| CALIB            |
| STANDHYD (  2011)|   Area    (ha)=   1.84
|ID= 1 DT= 5.0 min |   Total Imp(%)=  77.00   Dir. Conn.(%)=  77.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       1.42         0.42
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=     110.72        40.00
     Mannings n           =      0.013        0.250

         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    0.00 | 1.167    5.10 | 2.250   14.00 |  3.33    3.60
               0.167    0.00 | 1.250    6.20 | 2.333   14.00 |  3.42    3.30
               0.250    2.80 | 1.333    6.20 | 2.417    9.20 |  3.50    3.30
               0.333    2.80 | 1.417    7.90 | 2.500    9.20 |  3.58    3.00
               0.417    3.10 | 1.500    7.90 | 2.583    6.90 |  3.67    3.00
               0.500    3.10 | 1.583   11.00 | 2.667    6.90 |  3.75    2.70
               0.583    3.40 | 1.667   11.00 | 2.750    5.60 |  3.83    2.70
               0.667    3.40 | 1.750   20.00 | 2.833    5.60 |  3.92    2.60
               0.750    3.80 | 1.833   20.00 | 2.917    4.70 |  4.00    2.60
               0.833    3.80 | 1.917  113.00 | 3.000    4.70 |  4.08    2.50
               0.917    4.40 | 2.000  113.00 | 3.083    4.10 |  4.17    2.50
               1.000    4.40 | 2.083   24.00 | 3.167    4.10 |
               1.083    5.10 | 2.167   24.00 | 3.250    3.60 |

     Max.Eff.Inten.(mm/hr)=     113.00        17.48
               over (min)        5.00        10.00
     Storage Coeff.  (min)=       2.59 (ii)    6.73 (ii)
     Unit Hyd. Tpeak (min)=       5.00        10.00
     Unit Hyd. peak  (cms)=       0.29         0.14
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.44         0.02          0.449 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.08           2.00
     RUNOFF VOLUME    (mm)=      43.48         7.22          35.14
     TOTAL RAINFALL   (mm)=      44.48        44.48          44.48
     RUNOFF COEFFICIENT   =       0.98         0.16           0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| CALIB            |
| STANDHYD (  2012)|   Area    (ha)=   0.23
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.23         0.00
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       0.50         2.00
     Length            (m)=      67.00        40.00
     Mannings n           =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
               0.017    0.00 | 1.067    5.10 | 2.117   24.00 |  3.17    4.10
               0.033    0.00 | 1.083    5.10 | 2.133   24.00 |  3.18    3.60
               0.050    0.00 | 1.100    5.10 | 2.150   24.00 |  3.20    3.60
```

0.067	0.00	1.117	5.10	2.167	24.00	3.22	3.60
0.083	0.00	1.133	5.10	2.183	14.00	3.23	3.60
0.100	0.00	1.150	5.10	2.200	14.00	3.25	3.60
0.117	0.00	1.167	5.10	2.217	14.00	3.27	3.60
0.133	0.00	1.183	6.20	2.233	14.00	3.28	3.60
0.150	0.00	1.200	6.20	2.250	14.00	3.30	3.60
0.167	0.00	1.217	6.20	2.267	14.00	3.32	3.60
0.183	2.80	1.233	6.20	2.283	14.00	3.33	3.60
0.200	2.80	1.250	6.20	2.300	14.00	3.35	3.30
0.217	2.80	1.267	6.20	2.317	14.00	3.37	3.30
0.233	2.80	1.283	6.20	2.333	14.00	3.38	3.30
0.250	2.80	1.300	6.20	2.350	9.20	3.40	3.30
0.267	2.80	1.317	6.20	2.367	9.20	3.42	3.30
0.283	2.80	1.333	6.20	2.383	9.20	3.43	3.30
0.300	2.80	1.350	7.90	2.400	9.20	3.45	3.30
0.317	2.80	1.367	7.90	2.417	9.20	3.47	3.30
0.333	2.80	1.383	7.90	2.433	9.20	3.48	3.30
0.350	3.10	1.400	7.90	2.450	9.20	3.50	3.30
0.367	3.10	1.417	7.90	2.467	9.20	3.52	3.00
0.383	3.10	1.433	7.90	2.483	9.20	3.53	3.00
0.400	3.10	1.450	7.90	2.500	9.20	3.55	3.00
0.417	3.10	1.467	7.90	2.517	6.90	3.57	3.00
0.433	3.10	1.483	7.90	2.533	6.90	3.58	3.00
0.450	3.10	1.500	7.90	2.550	6.90	3.60	3.00
0.467	3.10	1.517	11.00	2.567	6.90	3.62	3.00
0.483	3.10	1.533	11.00	2.583	6.90	3.63	3.00
0.500	3.10	1.550	11.00	2.600	6.90	3.65	3.00
0.517	3.40	1.567	11.00	2.617	6.90	3.67	3.00
0.533	3.40	1.583	11.00	2.633	6.90	3.68	2.70
0.550	3.40	1.600	11.00	2.650	6.90	3.70	2.70
0.567	3.40	1.617	11.00	2.667	6.90	3.72	2.70
0.583	3.40	1.633	11.00	2.683	5.60	3.73	2.70
0.600	3.40	1.650	11.00	2.700	5.60	3.75	2.70
0.617	3.40	1.667	11.00	2.717	5.60	3.77	2.70
0.633	3.40	1.683	20.00	2.733	5.60	3.78	2.70
0.650	3.40	1.700	20.00	2.750	5.60	3.80	2.70
0.667	3.40	1.717	20.00	2.767	5.60	3.82	2.70
0.683	3.80	1.733	20.00	2.783	5.60	3.83	2.70
0.700	3.80	1.750	20.00	2.800	5.60	3.85	2.60
0.717	3.80	1.767	20.00	2.817	5.60	3.87	2.60
0.733	3.80	1.783	20.00	2.833	5.60	3.88	2.60
0.750	3.80	1.800	20.00	2.850	4.70	3.90	2.60
0.767	3.80	1.817	20.00	2.867	4.70	3.92	2.60
0.783	3.80	1.833	20.00	2.883	4.70	3.93	2.60
0.800	3.80	1.850	112.99	2.900	4.70	3.95	2.60
0.817	3.80	1.867	113.00	2.917	4.70	3.97	2.60
0.833	3.80	1.883	113.00	2.933	4.70	3.98	2.60
0.850	4.40	1.900	113.00	2.950	4.70	4.00	2.60
0.867	4.40	1.917	113.00	2.967	4.70	4.02	2.50
0.883	4.40	1.933	113.00	2.983	4.70	4.03	2.50
0.900	4.40	1.950	113.00	3.000	4.70	4.05	2.50
0.917	4.40	1.967	113.00	3.017	4.10	4.07	2.50
0.933	4.40	1.983	113.00	3.033	4.10	4.08	2.50
0.950	4.40	2.000	113.00	3.050	4.10	4.10	2.50
0.967	4.40	2.017	24.01	3.067	4.10	4.12	2.50
0.983	4.40	2.033	24.00	3.083	4.10	4.13	2.50
1.000	4.40	2.050	24.00	3.100	4.10	4.15	2.50
1.017	5.10	2.067	24.00	3.117	4.10	4.17	2.50
1.033	5.10	2.083	24.00	3.133	4.10		
1.050	5.10	2.100	24.00	3.150	4.10		

Max.Eff.Inten.(mm/hr)=	113.00	17.48	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.36 (ii)	3.42 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.35	0.31	
			TOTALS
PEAK FLOW (cms)=	0.07	0.00	0.068 (iii)
TIME TO PEAK (hrs)=	2.00	2.02	2.00
RUNOFF VOLUME (mm)=	43.48	7.22	43.12
TOTAL RAINFALL (mm)=	44.48	44.48	44.48
RUNOFF COEFFICIENT =	0.98	0.16	0.97

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0101)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0380	0.0061
	0.0190	0.0030	0.0570	0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.068	2.00	43.12
OUTFLOW: ID= 1 (0101)	0.229	0.025	2.12	42.94

PEAK FLOW REDUCTION [Qout/Qin](%)= 37.01
TIME SHIFT OF PEAK FLOW (min)= 7.00
MAXIMUM STORAGE USED (ha.m.)= 0.0040

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

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--------------------
| CALIB            |
| STANDHYD (  2014)|   Area    (ha)=   0.15
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.15         0.00
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope     (%)=       0.50         2.00
     Length            (m)=      31.44        40.00
     Mannings n             =     0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
```

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	5.10	2.117	24.00	3.17	4.10
0.033	0.00	1.083	5.10	2.133	24.00	3.18	3.60
0.050	0.00	1.100	5.10	2.150	24.00	3.20	3.60
0.067	0.00	1.117	5.10	2.167	24.00	3.22	3.60
0.083	0.00	1.133	5.10	2.183	14.00	3.23	3.60
0.100	0.00	1.150	5.10	2.200	14.00	3.25	3.60
0.117	0.00	1.167	5.10	2.217	14.00	3.27	3.60
0.133	0.00	1.183	6.20	2.233	14.00	3.28	3.60
0.150	0.00	1.200	6.20	2.250	14.00	3.30	3.60
0.167	0.00	1.217	6.20	2.267	14.00	3.32	3.60
0.183	2.80	1.233	6.20	2.283	14.00	3.33	3.60
0.200	2.80	1.250	6.20	2.300	14.00	3.35	3.30
0.217	2.80	1.267	6.20	2.317	14.00	3.37	3.30
0.233	2.80	1.283	6.20	2.333	14.00	3.38	3.30
0.250	2.80	1.300	6.20	2.350	9.20	3.40	3.30
0.267	2.80	1.317	6.20	2.367	9.20	3.42	3.30
0.283	2.80	1.333	6.20	2.383	9.20	3.43	3.30
0.300	2.80	1.350	7.90	2.400	9.20	3.45	3.30
0.317	2.80	1.367	7.90	2.417	9.20	3.47	3.30
0.333	2.80	1.383	7.90	2.433	9.20	3.48	3.30
0.350	3.10	1.400	7.90	2.450	9.20	3.50	3.30
0.367	3.10	1.417	7.90	2.467	9.20	3.52	3.00
0.383	3.10	1.433	7.90	2.483	9.20	3.53	3.00
0.400	3.10	1.450	7.90	2.500	9.20	3.55	3.00
0.417	3.10	1.467	7.90	2.517	6.90	3.57	3.00
0.433	3.10	1.483	7.90	2.533	6.90	3.58	3.00
0.450	3.10	1.500	7.90	2.550	6.90	3.60	3.00
0.467	3.10	1.517	11.00	2.567	6.90	3.62	3.00
0.483	3.10	1.533	11.00	2.583	6.90	3.63	3.00
0.500	3.10	1.550	11.00	2.600	6.90	3.65	3.00
0.517	3.40	1.567	11.00	2.617	6.90	3.67	3.00
0.533	3.40	1.583	11.00	2.633	6.90	3.68	2.70
0.550	3.40	1.600	11.00	2.650	6.90	3.70	2.70
0.567	3.40	1.617	11.00	2.667	6.90	3.72	2.70
0.583	3.40	1.633	11.00	2.683	5.60	3.73	2.70
0.600	3.40	1.650	11.00	2.700	5.60	3.75	2.70
0.617	3.40	1.667	11.00	2.717	5.60	3.77	2.70
0.633	3.40	1.683	20.00	2.733	5.60	3.78	2.70
0.650	3.40	1.700	20.00	2.750	5.60	3.80	2.70
0.667	3.40	1.717	20.00	2.767	5.60	3.82	2.70
0.683	3.80	1.733	20.00	2.783	5.60	3.83	2.70
0.700	3.80	1.750	20.00	2.800	5.60	3.85	2.60
0.717	3.80	1.767	20.00	2.817	5.60	3.87	2.60
0.733	3.80	1.783	20.00	2.833	5.60	3.88	2.60
0.750	3.80	1.800	20.00	2.850	4.70	3.90	2.60
0.767	3.80	1.817	20.00	2.867	4.70	3.92	2.60
0.783	3.80	1.833	20.00	2.883	4.70	3.93	2.60
0.800	3.80	1.850	112.99	2.900	4.70	3.95	2.60
0.817	3.80	1.867	113.00	2.917	4.70	3.97	2.60
0.833	3.80	1.883	113.00	2.933	4.70	3.98	2.60
0.850	4.40	1.900	113.00	2.950	4.70	4.00	2.60
0.867	4.40	1.917	113.00	2.967	4.70	4.02	2.50
0.883	4.40	1.933	113.00	2.983	4.70	4.03	2.50
0.900	4.40	1.950	113.00	3.000	4.70	4.05	2.50
0.917	4.40	1.967	113.00	3.017	4.10	4.07	2.50
0.933	4.40	1.983	113.00	3.033	4.10	4.08	2.50
0.950	4.40	2.000	113.00	3.050	4.10	4.10	2.50
0.967	4.40	2.017	24.01	3.067	4.10	4.12	2.50
0.983	4.40	2.033	24.00	3.083	4.10	4.13	2.50
1.000	4.40	2.050	24.00	3.100	4.10	4.15	2.50
1.017	5.10	2.067	24.00	3.117	4.10	4.17	2.50
1.033	5.10	2.083	24.00	3.133	4.10		
1.050	5.10	2.100	24.00	3.150	4.10		

Max.Eff.Inten.(mm/hr)=	113.00	56.39		
over (min)	5.00	3.00		
Storage Coeff. (min)=	1.50 (ii)	2.57 (ii)		
Unit Hyd. Tpeak (min)=	5.00	3.00		
Unit Hyd. peak (cms)=	0.42	0.42		
			TOTALS	
PEAK FLOW (cms)=	0.05	0.00	0.046 (iii)	
TIME TO PEAK (hrs)=	2.00	2.00	2.00	
RUNOFF VOLUME (mm)=	43.48	21.04	43.25	
TOTAL RAINFALL (mm)=	44.48	44.48	44.48	
RUNOFF COEFFICIENT =	0.98	0.47	0.97	

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0103)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0250      0.0040
                          0.0130     0.0020   |   0.0380      0.0059

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2014)      0.148     0.046      2.00      43.25
   OUTFLOW: ID= 1 (  0103)      0.148     0.017      2.10      42.99

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 36.84
                  TIME SHIFT OF PEAK FLOW         (min)=  6.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0027

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  2013)|   Area    (ha)=   0.31
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
--------------------

                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.31         0.00
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope     (%)=       0.50         2.00
     Length            (m)=      65.00        40.00
     Mannings n           =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 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
               0.017    0.00 | 1.067    5.10 | 2.117   24.00 |  3.17    4.10
               0.033    0.00 | 1.083    5.10 | 2.133   24.00 |  3.18    3.60
               0.050    0.00 | 1.100    5.10 | 2.150   24.00 |  3.20    3.60
               0.067    0.00 | 1.117    5.10 | 2.167   24.00 |  3.22    3.60
               0.083    0.00 | 1.133    5.10 | 2.183   14.00 |  3.23    3.60
               0.100    0.00 | 1.150    5.10 | 2.200   14.00 |  3.25    3.60
               0.117    0.00 | 1.167    5.10 | 2.217   14.00 |  3.27    3.60
               0.133    0.00 | 1.183    6.20 | 2.233   14.00 |  3.28    3.60
               0.150    0.00 | 1.200    6.20 | 2.250   14.00 |  3.30    3.60
               0.167    0.00 | 1.217    6.20 | 2.267   14.00 |  3.32    3.60
               0.183    2.80 | 1.233    6.20 | 2.283   14.00 |  3.33    3.60
               0.200    2.80 | 1.250    6.20 | 2.300   14.00 |  3.35    3.30
               0.217    2.80 | 1.267    6.20 | 2.317   14.00 |  3.37    3.30
               0.233    2.80 | 1.283    6.20 | 2.333   14.00 |  3.38    3.30
               0.250    2.80 | 1.300    6.20 | 2.350    9.20 |  3.40    3.30
               0.267    2.80 | 1.317    6.20 | 2.367    9.20 |  3.42    3.30
               0.283    2.80 | 1.333    6.20 | 2.383    9.20 |  3.43    3.30
               0.300    2.80 | 1.350    7.90 | 2.400    9.20 |  3.45    3.30
               0.317    2.80 | 1.367    7.90 | 2.417    9.20 |  3.47    3.30
               0.333    2.80 | 1.383    7.90 | 2.433    9.20 |  3.48    3.30
               0.350    3.10 | 1.400    7.90 | 2.450    9.20 |  3.50    3.30
               0.367    3.10 | 1.417    7.90 | 2.467    9.20 |  3.52    3.00
               0.383    3.10 | 1.433    7.90 | 2.483    9.20 |  3.53    3.00
               0.400    3.10 | 1.450    7.90 | 2.500    9.20 |  3.55    3.00
               0.417    3.10 | 1.467    7.90 | 2.517    6.90 |  3.57    3.00
               0.433    3.10 | 1.483    7.90 | 2.533    6.90 |  3.58    3.00
               0.450    3.10 | 1.500    7.90 | 2.550    6.90 |  3.60    3.00
               0.467    3.10 | 1.517   11.00 | 2.567    6.90 |  3.62    3.00
               0.483    3.10 | 1.533   11.00 | 2.583    6.90 |  3.63    3.00
               0.500    3.10 | 1.550   11.00 | 2.600    6.90 |  3.65    3.00
               0.517    3.40 | 1.567   11.00 | 2.617    6.90 |  3.67    3.00
               0.533    3.40 | 1.583   11.00 | 2.633    6.90 |  3.68    2.70
               0.550    3.40 | 1.600   11.00 | 2.650    6.90 |  3.70    2.70
               0.567    3.40 | 1.617   11.00 | 2.667    6.90 |  3.72    2.70
               0.583    3.40 | 1.633   11.00 | 2.683    5.60 |  3.73    2.70
               0.600    3.40 | 1.650   11.00 | 2.700    5.60 |  3.75    2.70
               0.617    3.40 | 1.667   11.00 | 2.717    5.60 |  3.77    2.70
               0.633    3.40 | 1.683   20.00 | 2.733    5.60 |  3.78    2.70
               0.650    3.40 | 1.700   20.00 | 2.750    5.60 |  3.80    2.70
               0.667    3.40 | 1.717   20.00 | 2.767    5.60 |  3.82    2.70
               0.683    3.80 | 1.733   20.00 | 2.783    5.60 |  3.83    2.70
               0.700    3.80 | 1.750   20.00 | 2.800    5.60 |  3.85    2.60
               0.717    3.80 | 1.767   20.00 | 2.817    5.60 |  3.87    2.60
               0.733    3.80 | 1.783   20.00 | 2.833    5.60 |  3.88    2.60
               0.750    3.80 | 1.800   20.00 | 2.850    4.70 |  3.90    2.60
               0.767    3.80 | 1.817   20.00 | 2.867    4.70 |  3.92    2.60
               0.783    3.80 | 1.833   20.00 | 2.883    4.70 |  3.93    2.60
               0.800    3.80 | 1.850  112.99 | 2.900    4.70 |  3.95    2.60
               0.817    3.80 | 1.867  113.00 | 2.917    4.70 |  3.97    2.60
               0.833    3.80 | 1.883  113.00 | 2.933    4.70 |  3.98    2.60
               0.850    4.40 | 1.900  113.00 | 2.950    4.70 |  4.00    2.60
               0.867    4.40 | 1.917  113.00 | 2.967    4.70 |  4.02    2.50
               0.883    4.40 | 1.933  113.00 | 2.983    4.70 |  4.03    2.50
               0.900    4.40 | 1.950  113.00 | 3.000    4.70 |  4.05    2.50
               0.917    4.40 | 1.967  113.00 | 3.017    4.10 |  4.07    2.50
               0.933    4.40 | 1.983  113.00 | 3.033    4.10 |  4.08    2.50
               0.950    4.40 | 2.000  113.00 | 3.050    4.10 |  4.10    2.50
               0.967    4.40 | 2.017   24.01 | 3.067    4.10 |  4.12    2.50
               0.983    4.40 | 2.033   24.00 | 3.083    4.10 |  4.13    2.50
               1.000    4.40 | 2.050   24.00 | 3.100    4.10 |  4.15    2.50
               1.017    5.10 | 2.067   24.00 | 3.117    4.10 |  4.17    2.50
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              1.033    5.10 | 2.083   24.00 | 3.133    4.10 |
              1.050    5.10 | 2.100   24.00 | 3.150    4.10 |

     Max.Eff.Inten.(mm/hr)=     113.00        56.39
               over (min)         5.00         4.00
     Storage Coeff.  (min)=       2.31 (ii)    3.38 (ii)
     Unit Hyd. Tpeak (min)=       5.00         4.00
     Unit Hyd. peak  (cms)=       0.35         0.31
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.09         0.00          0.093 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.02          2.00
     RUNOFF VOLUME    (mm)=      43.48        21.04         43.25
     TOTAL RAINFALL   (mm)=      44.48        44.48         44.48
     RUNOFF COEFFICIENT   =       0.98         0.47          0.97


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  85.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0102)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0440      0.0083
                          0.0220     0.0041   |   0.0660      0.0124

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2013)     0.310      0.093      2.00      43.25
   OUTFLOW: ID= 1 (  0102)     0.310      0.031      2.12      43.11

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 33.30
                  TIME SHIFT OF PEAK FLOW         (min)=  7.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0058

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0101):     0.23   0.025     2.12    42.94
     + ID2= 2 (  0102):     0.31   0.031     2.12    43.11
       ================================================
       ID = 3 (  0001):     0.54   0.056     2.12    43.04

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 3 (  0001):     0.54   0.056     2.12    43.04
     + ID2= 2 (  0103):     0.15   0.017     2.10    42.99
       ================================================
       ID = 1 (  0001):     0.69   0.073     2.12    43.03

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0204)|   Area    (ha)=   0.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  55.00   Dir. Conn.(%)=  55.00
--------------------

                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.18         0.15
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      46.60        40.00
     Mannings n             =     0.013        0.250

         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    0.00 | 1.167    5.10 | 2.250   14.00 |  3.33    3.60
     0.167    0.00 | 1.250    6.20 | 2.333   14.00 |  3.42    3.30
     0.250    2.80 | 1.333    6.20 | 2.417    9.20 |  3.50    3.30
     0.333    2.80 | 1.417    7.90 | 2.500    9.20 |  3.58    3.00
     0.417    3.10 | 1.500    7.90 | 2.583    6.90 |  3.67    3.00
     0.500    3.10 | 1.583   11.00 | 2.667    6.90 |  3.75    2.70
     0.583    3.40 | 1.667   11.00 | 2.750    5.60 |  3.83    2.70
     0.667    3.40 | 1.750   20.00 | 2.833    5.60 |  3.92    2.60
     0.750    3.80 | 1.833   20.00 | 2.917    4.70 |  4.00    2.60
     0.833    3.80 | 1.917  113.00 | 3.000    4.70 |  4.08    2.50
     0.917    4.40 | 2.000  113.00 | 3.083    4.10 |  4.17    2.50
     1.000    4.40 | 2.083   24.00 | 3.167    4.10 |
     1.083    5.10 | 2.167   24.00 | 3.250    3.60 |

     Max.Eff.Inten.(mm/hr)=     113.00        11.72
               over (min)         5.00        20.00
```

```
     Storage Coeff.  (min)=       1.54 (ii)   18.18 (ii)
     Unit Hyd. Tpeak (min)=       5.00        20.00
     Unit Hyd. peak  (cms)=       0.33         0.06
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.06         0.00          0.057 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.25           2.00
     RUNOFF VOLUME    (mm)=      43.48         7.22          27.13
     TOTAL RAINFALL   (mm)=      44.48        44.48          44.48
     RUNOFF COEFFICIENT   =       0.98         0.16           0.61

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0002)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 1 (  0001):     0.69   0.073     2.12    43.03
      + ID2= 2 (  2011):     1.84   0.449     2.00    35.14
        ================================================
        ID = 3 (  0002):     2.53   0.503     2.00    37.28

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0002)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 3 (  0002):     2.53   0.503     2.00    37.28
      + ID2= 2 (  0204):     0.33   0.057     2.00    27.13
        ================================================
        ID = 1 (  0002):     2.85   0.560     2.00    36.12

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
------------------
| CHAMBER(  0025)|  OUTFLOW: ON,   UNDERDRAIN: OFF,  INFIL: OFF
|IN= 2--> OUT= 3 |  CHAMBER:
| DT=  5.0 min   |  MAX STO VOL (cu.m.)=  710.04  Bottom Area(m2)   =  614.46
------------------
                     DEPTH       STORAGE          |   DEPTH      STORAGE
                     (mm)        (cu.m.)          |   (mm)       (cu.m.)
                      0.00         0.00          |    864.00       430.26
                     25.00        13.40          |    889.00       441.69
                     51.00        26.76          |    914.00       453.02
                     76.00        40.09          |    940.00       464.23
                    102.00        53.40          |    965.00       475.34
                    127.00        66.68          |    991.00       486.32
                    152.00        79.92          |   1016.00       497.18
                    178.00        93.14          |   1041.00       507.92
                    203.00       106.32          |   1067.00       518.52
                    229.00       119.46          |   1092.00       528.98
                    254.00       132.57          |   1118.00       539.29
                    279.00       145.64          |   1143.00       549.44
                    305.00       158.66          |   1168.00       559.43
                    330.00       171.65          |   1194.00       569.25
                    356.00       184.58          |   1219.00       578.88
                    381.00       197.47          |   1245.00       588.32
                    406.00       210.31          |   1270.00       597.54
                    432.00       223.09          |   1295.00       606.52
                    457.00       235.83          |   1321.00       615.24
                    483.00       248.51          |   1346.00       623.67
                    508.00       261.13          |   1372.00       631.72
                    533.00       273.68          |   1397.00       639.20
                    559.00       286.18          |   1422.00       646.18
                    584.00       298.61          |   1448.00       653.00
                    610.00       310.97          |   1473.00       659.69
                    635.00       323.26          |   1499.00       666.24
                    660.00       335.48          |   1524.00       672.59
                    686.00       347.62          |   1549.00       678.83
                    711.00       359.68          |   1575.00       685.08
                    737.00       371.67          |   1600.00       691.32
                    762.00       383.57          |   1626.00       697.56
                    787.00       395.38          |   1651.00       703.80
                    813.00       407.10          |   1676.00       710.04
                    838.00       418.73          |      0.00         0.00

                   DEPTH       DISCHARGE        |   DEPTH      DISCHARGE
                     (m)         (cms)          |    (m)         (cms)
                   0.000         0.000          |   1.255        0.504
                   0.455         0.000          |   1.355        0.535
                   0.555         0.178          |   1.455        0.564
                   0.655         0.252          |   1.555        0.591
                   0.755         0.309          |   1.655        0.617
                   0.855         0.356          |   1.755        0.643
                   0.955         0.399          |   1.855        0.667
                   1.055         0.437          |   1.955        0.690
                   1.155         0.472          |   2.055        0.713

                     AREA         QPEAK           TPEAK          R.V.
                     (ha)         (cms)           (hrs)          (mm)
INFLOW:ID= 2         2.85         0.560            2.00         36.12
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   OUTFLOW:ID= 1     2.85         0.320             2.05        27.89
  OVERFLOW:ID= 3     0.00         0.000             0.00         0.00

            Volume Reduction Rate[(RVin-RVout)/RVin](%)=       22.80
            Time to reach Max storage             (Hr)=        2.05
            Volume of water for drawdown in LID (cu.m.)=      234.86
            Volume of maximum water storage     (cu.m.)=      372.24
            ***** After simulation, water volume is not zero.

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 | Junction Command(0034) |
 --------------------------

                        AREA     QPEAK   TPEAK     R.V.
                        (ha)     (cms)    (hrs)    (mm)
 INFLOW : ID= 3(  0025)    0.00     0.00    0.00     0.00
 OUTFLOW: ID= 2(  0034)    0.00     0.00    0.00     0.00

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 | Junction Command(0035) |
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                        AREA     QPEAK   TPEAK     R.V.
                        (ha)     (cms)    (hrs)    (mm)
 INFLOW : ID= 1(  0025)    2.85     0.32    2.05    27.89
 OUTFLOW: ID= 2(  0035)    2.85     0.32    2.05    27.89

 ------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0202)|   Area    (ha)=   0.10
|ID= 1 DT= 5.0 min |   Total Imp(%)=  11.00   Dir. Conn.(%)=  11.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
    Surface Area     (ha)=       0.01         0.09
    Dep. Storage     (mm)=       1.00         5.00
    Average Slope     (%)=       1.00         2.00
    Length            (m)=      25.66        40.00
    Mannings n           =      0.013        0.250

        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    0.00 | 1.167    5.10 | 2.250   14.00 |  3.33    3.60
    0.167    0.00 | 1.250    6.20 | 2.333   14.00 |  3.42    3.30
    0.250    2.80 | 1.333    6.20 | 2.417    9.20 |  3.50    3.30
    0.333    2.80 | 1.417    7.90 | 2.500    9.20 |  3.58    3.00
    0.417    3.10 | 1.500    7.90 | 2.583    6.90 |  3.67    3.00
    0.500    3.10 | 1.583   11.00 | 2.667    6.90 |  3.75    2.70
    0.583    3.40 | 1.667   11.00 | 2.750    5.60 |  3.83    2.70
    0.667    3.40 | 1.750   20.00 | 2.833    5.60 |  3.92    2.60
    0.750    3.80 | 1.833   20.00 | 2.917    4.70 |  4.00    2.60
    0.833    3.80 | 1.917  113.00 | 3.000    4.70 |  4.08    2.50
    0.917    4.40 | 2.000  113.00 | 3.083    4.10 |  4.17    2.50
    1.000    4.40 | 2.083   24.00 | 3.167    4.10 |
    1.083    5.10 | 2.167   24.00 | 3.250    3.60 |

  Max.Eff.Inten.(mm/hr)=     113.00        11.72
            over (min)         5.00        20.00
  Storage Coeff.  (min)=       1.08 (ii)   17.71 (ii)
  Unit Hyd. Tpeak (min)=       5.00        20.00
  Unit Hyd. peak  (cms)=       0.34         0.06
                                                      *TOTALS*
  PEAK FLOW       (cms)=       0.00         0.00        0.004 (iii)
  TIME TO PEAK    (hrs)=       2.00         2.25         2.00
  RUNOFF VOLUME    (mm)=      43.48         7.22        11.10
  TOTAL RAINFALL   (mm)=      44.48        44.48        44.48
  RUNOFF COEFFICIENT   =       0.98         0.16         0.25

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
             YOU SHOULD CONSIDER SPLITTING THE AREA.

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0203)|   Area    (ha)=   0.05
|ID= 1 DT= 5.0 min |   Total Imp(%)=  27.00   Dir. Conn.(%)=  27.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
    Surface Area     (ha)=       0.01         0.04
    Dep. Storage     (mm)=       1.00         5.00
    Average Slope     (%)=       1.00         2.00
    Length            (m)=      18.90        40.00
    Mannings n           =      0.013        0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	1.167	5.10	2.250	14.00	3.33	3.60
0.167	0.00	1.250	6.20	2.333	14.00	3.42	3.30
0.250	2.80	1.333	6.20	2.417	9.20	3.50	3.30
0.333	2.80	1.417	7.90	2.500	9.20	3.58	3.00
0.417	3.10	1.500	7.90	2.583	6.90	3.67	3.00
0.500	3.10	1.583	11.00	2.667	6.90	3.75	2.70
0.583	3.40	1.667	11.00	2.750	5.60	3.83	2.70
0.667	3.40	1.750	20.00	2.833	5.60	3.92	2.60
0.750	3.80	1.833	20.00	2.917	4.70	4.00	2.60
0.833	3.80	1.917	113.00	3.000	4.70	4.08	2.50
0.917	4.40	2.000	113.00	3.083	4.10	4.17	2.50
1.000	4.40	2.083	24.00	3.167	4.10		
1.083	5.10	2.167	24.00	3.250	3.60		

			TOTALS
Max.Eff.Inten.(mm/hr)=	113.00	11.72	
over (min)	5.00	20.00	
Storage Coeff. (min)=	0.90 (ii)	17.53 (ii)	
Unit Hyd. Tpeak (min)=	5.00	20.00	
Unit Hyd. peak (cms)=	0.34	0.06	
PEAK FLOW (cms)=	0.00	0.00	0.005 (iii)
TIME TO PEAK (hrs)=	2.00	2.25	2.00
RUNOFF VOLUME (mm)=	43.48	7.22	16.75
TOTAL RAINFALL (mm)=	44.48	44.48	44.48
RUNOFF COEFFICIENT =	0.98	0.16	0.38

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0003)					
1 + 2 = 3		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0202):		0.10	0.004	2.00	11.10
+ ID2= 2 (0203):		0.05	0.005	2.00	16.75
ID = 3 (0003):		0.15	0.009	2.00	13.08

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0003)					
3 + 2 = 1		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 3 (0003):		0.15	0.009	2.00	13.08
+ ID2= 2 (0034):		0.00	0.000	0.00	0.00
ID = 1 (0003):		0.15	0.009	2.00	13.08

*** W A R N I N G : HYDROGRAPH 0034 <ID= 2> IS DRY.
*** W A R N I N G : HYDROGRAPH 0001 = HYDROGRAPH 0003

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0003)					
1 + 2 = 3		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0003):		0.15	0.009	2.00	13.08
+ ID2= 2 (0035):		2.85	0.320	2.05	27.89
ID = 3 (0003):		3.00	0.326	2.05	27.15

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

****
** SIMULATION:2.2 10Y4H Chicago Design Storm **
****

READ STORM	Filename: C:\Users\CAAS077425\AppData\Local\Temp\928a9435-1a45-4733-a537-3482c3d30588\5850fbeb
Ptotal= 54.33 mm	Comments: 10Y4H Chicago Design Storm

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.00	1.17	7.20	2.33	11.00	3.50	3.60
0.17	3.40	1.33	9.20	2.50	8.10	3.67	3.30
0.33	3.70	1.50	13.00	2.67	6.60	3.83	3.20
0.50	4.10	1.67	22.00	2.83	5.60	4.00	3.10
0.67	4.60	1.83	136.00	3.00	4.90		
0.83	5.20	2.00	38.00	3.17	4.30		
1.00	6.00	2.17	16.00	3.33	3.90		

CALIB

| STANDHYD (2011)| Area (ha)= 1.84
|ID= 1 DT= 5.0 min | Total Imp(%)= 77.00 Dir. Conn.(%)= 77.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.42	0.42
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	110.72	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	1.167	6.00	2.250	16.00	3.33	4.30
0.167	0.00	1.250	7.20	2.333	16.00	3.42	3.90
0.250	3.40	1.333	7.20	2.417	11.00	3.50	3.90
0.333	3.40	1.417	9.20	2.500	11.00	3.58	3.60
0.417	3.70	1.500	9.20	2.583	8.10	3.67	3.60
0.500	3.70	1.583	13.00	2.667	8.10	3.75	3.30
0.583	4.10	1.667	13.00	2.750	6.60	3.83	3.30
0.667	4.10	1.750	22.00	2.833	6.60	3.92	3.20
0.750	4.60	1.833	22.00	2.917	5.60	4.00	3.20
0.833	4.60	1.917	136.00	3.000	5.60	4.08	3.10
0.917	5.20	2.000	136.00	3.083	4.90	4.17	3.10
1.000	5.20	2.083	38.00	3.167	4.90		
1.083	6.00	2.167	38.00	3.250	4.30		

Max.Eff.Inten.(mm/hr)=		136.00	25.23	
over (min)		5.00	10.00	
Storage Coeff. (min)=		2.40 (ii)	6.25 (ii)	
Unit Hyd. Tpeak (min)=		5.00	10.00	
Unit Hyd. peak (cms)=		0.30	0.15	
				TOTALS
PEAK FLOW	(cms)=	0.53	0.02	0.546 (iii)
TIME TO PEAK	(hrs)=	2.00	2.08	2.00
RUNOFF VOLUME	(mm)=	53.33	10.78	43.54
TOTAL RAINFALL	(mm)=	54.33	54.33	54.33
RUNOFF COEFFICIENT	=	0.98	0.20	0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (2012)| Area (ha)= 0.23
|ID= 1 DT= 1.0 min | Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.23	0.00
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.50	2.00
Length	(m)=	67.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	6.00	2.117	38.00	3.17	4.90
0.033	0.00	1.083	6.00	2.133	38.00	3.18	4.30
0.050	0.00	1.100	6.00	2.150	38.00	3.20	4.30
0.067	0.00	1.117	6.00	2.167	38.00	3.22	4.30
0.083	0.00	1.133	6.00	2.183	16.00	3.23	4.30
0.100	0.00	1.150	6.00	2.200	16.00	3.25	4.30
0.117	0.00	1.167	6.00	2.217	16.00	3.27	4.30
0.133	0.00	1.183	7.20	2.233	16.00	3.28	4.30
0.150	0.00	1.200	7.20	2.250	16.00	3.30	4.30
0.167	0.00	1.217	7.20	2.267	16.00	3.32	4.30
0.183	3.40	1.233	7.20	2.283	16.00	3.33	4.30
0.200	3.40	1.250	7.20	2.300	16.00	3.35	3.90
0.217	3.40	1.267	7.20	2.317	16.00	3.37	3.90
0.233	3.40	1.283	7.20	2.333	16.00	3.38	3.90
0.250	3.40	1.300	7.20	2.350	11.00	3.40	3.90
0.267	3.40	1.317	7.20	2.367	11.00	3.42	3.90
0.283	3.40	1.333	7.20	2.383	11.00	3.43	3.90
0.300	3.40	1.350	9.20	2.400	11.00	3.45	3.90
0.317	3.40	1.367	9.20	2.417	11.00	3.47	3.90
0.333	3.40	1.383	9.20	2.433	11.00	3.48	3.90
0.350	3.70	1.400	9.20	2.450	11.00	3.50	3.90
0.367	3.70	1.417	9.20	2.467	11.00	3.52	3.60
0.383	3.70	1.433	9.20	2.483	11.00	3.53	3.60
0.400	3.70	1.450	9.20	2.500	11.00	3.55	3.60
0.417	3.70	1.467	9.20	2.517	8.10	3.57	3.60
0.433	3.70	1.483	9.20	2.533	8.10	3.58	3.60
0.450	3.70	1.500	9.20	2.550	8.10	3.60	3.60
0.467	3.70	1.517	13.00	2.567	8.10	3.62	3.60
0.483	3.70	1.533	13.00	2.583	8.10	3.63	3.60
0.500	3.70	1.550	13.00	2.600	8.10	3.65	3.60
0.517	4.10	1.567	13.00	2.617	8.10	3.67	3.60

0.533	4.10	1.583	13.00	2.633	8.10	3.68	3.30
0.550	4.10	1.600	13.00	2.650	8.10	3.70	3.30
0.567	4.10	1.617	13.00	2.667	8.10	3.72	3.30
0.583	4.10	1.633	13.00	2.683	6.60	3.73	3.30
0.600	4.10	1.650	13.00	2.700	6.60	3.75	3.30
0.617	4.10	1.667	13.00	2.717	6.60	3.77	3.30
0.633	4.10	1.683	22.00	2.733	6.60	3.78	3.30
0.650	4.10	1.700	22.00	2.750	6.60	3.80	3.30
0.667	4.10	1.717	22.00	2.767	6.60	3.82	3.30
0.683	4.60	1.733	22.00	2.783	6.60	3.83	3.30
0.700	4.60	1.750	22.00	2.800	6.60	3.85	3.20
0.717	4.60	1.767	22.00	2.817	6.60	3.87	3.20
0.733	4.60	1.783	22.00	2.833	6.60	3.88	3.20
0.750	4.60	1.800	22.00	2.850	5.60	3.90	3.20
0.767	4.60	1.817	22.00	2.867	5.60	3.92	3.20
0.783	4.60	1.833	22.00	2.883	5.60	3.93	3.20
0.800	4.60	1.850	135.99	2.900	5.60	3.95	3.20
0.817	4.60	1.867	136.00	2.917	5.60	3.97	3.20
0.833	4.60	1.883	136.00	2.933	5.60	3.98	3.20
0.850	5.20	1.900	136.00	2.950	5.60	4.00	3.20
0.867	5.20	1.917	136.00	2.967	5.60	4.02	3.10
0.883	5.20	1.933	136.00	2.983	5.60	4.03	3.10
0.900	5.20	1.950	136.00	3.000	5.60	4.05	3.10
0.917	5.20	1.967	136.00	3.017	4.90	4.07	3.10
0.933	5.20	1.983	136.00	3.033	4.90	4.08	3.10
0.950	5.20	2.000	136.00	3.050	4.90	4.10	3.10
0.967	5.20	2.017	38.01	3.067	4.90	4.12	3.10
0.983	5.20	2.033	38.00	3.083	4.90	4.13	3.10
1.000	5.20	2.050	38.00	3.100	4.90	4.15	3.10
1.017	6.00	2.067	38.00	3.117	4.90	4.17	3.10
1.033	6.00	2.083	38.00	3.133	4.90		
1.050	6.00	2.100	38.00	3.150	4.90		

Max.Eff.Inten.(mm/hr)=	136.00	25.23	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.19 (ii)	3.18 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.36	0.33	
			TOTALS
PEAK FLOW (cms)=	0.08	0.00	0.083 (iii)
TIME TO PEAK (hrs)=	2.00	2.02	2.00
RUNOFF VOLUME (mm)=	53.33	10.78	52.90
TOTAL RAINFALL (mm)=	54.33	54.33	54.33
RUNOFF COEFFICIENT =	0.98	0.20	0.97

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

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

RESERVOIR(0101)	OVERFLOW IS OFF
IN= 2---> OUT= 1	
DT= 5.0 min	OUTFLOW (cms) / STORAGE (ha.m.) / OUTFLOW (cms) / STORAGE (ha.m.)
	0.0000 / 0.0000 / 0.0380 / 0.0061
	0.0190 / 0.0030 / 0.0570 / 0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.083	2.00	52.90
OUTFLOW: ID= 1 (0101)	0.229	0.031	2.13	52.73

PEAK FLOW REDUCTION [Qout/Qin](%)= 37.06
TIME SHIFT OF PEAK FLOW (min)= 8.00
MAXIMUM STORAGE USED (ha.m.)= 0.0049

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB	
STANDHYD (2014)	Area (ha)= 0.15
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.15	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	31.44	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	6.00	2.117	38.00	3.17	4.90
0.033	0.00	1.083	6.00	2.133	38.00	3.18	4.30
0.050	0.00	1.100	6.00	2.150	38.00	3.20	4.30
0.067	0.00	1.117	6.00	2.167	38.00	3.22	4.30
0.083	0.00	1.133	6.00	2.183	16.00	3.23	4.30
0.100	0.00	1.150	6.00	2.200	16.00	3.25	4.30
0.117	0.00	1.167	6.00	2.217	16.00	3.27	4.30
0.133	0.00	1.183	7.20	2.233	16.00	3.28	4.30
0.150	0.00	1.200	7.20	2.250	16.00	3.30	4.30
0.167	0.00	1.217	7.20	2.267	16.00	3.32	4.30

0.183	3.40	1.233	7.20	2.283	16.00	3.33	4.30
0.200	3.40	1.250	7.20	2.300	16.00	3.35	3.90
0.217	3.40	1.267	7.20	2.317	16.00	3.37	3.90
0.233	3.40	1.283	7.20	2.333	16.00	3.38	3.90
0.250	3.40	1.300	7.20	2.350	11.00	3.40	3.90
0.267	3.40	1.317	7.20	2.367	11.00	3.42	3.90
0.283	3.40	1.333	7.20	2.383	11.00	3.43	3.90
0.300	3.40	1.350	9.20	2.400	11.00	3.45	3.90
0.317	3.40	1.367	9.20	2.417	11.00	3.47	3.90
0.333	3.40	1.383	9.20	2.433	11.00	3.48	3.90
0.350	3.70	1.400	9.20	2.450	11.00	3.50	3.90
0.367	3.70	1.417	9.20	2.467	11.00	3.52	3.60
0.383	3.70	1.433	9.20	2.483	11.00	3.53	3.60
0.400	3.70	1.450	9.20	2.500	11.00	3.55	3.60
0.417	3.70	1.467	9.20	2.517	8.10	3.57	3.60
0.433	3.70	1.483	9.20	2.533	8.10	3.58	3.60
0.450	3.70	1.500	9.20	2.550	8.10	3.60	3.60
0.467	3.70	1.517	13.00	2.567	8.10	3.62	3.60
0.483	3.70	1.533	13.00	2.583	8.10	3.63	3.60
0.500	3.70	1.550	13.00	2.600	8.10	3.65	3.60
0.517	4.10	1.567	13.00	2.617	8.10	3.67	3.60
0.533	4.10	1.583	13.00	2.633	8.10	3.68	3.30
0.550	4.10	1.600	13.00	2.650	8.10	3.70	3.30
0.567	4.10	1.617	13.00	2.667	8.10	3.72	3.30
0.583	4.10	1.633	13.00	2.683	6.60	3.73	3.30
0.600	4.10	1.650	13.00	2.700	6.60	3.75	3.30
0.617	4.10	1.667	13.00	2.717	6.60	3.77	3.30
0.633	4.10	1.683	22.00	2.733	6.60	3.78	3.30
0.650	4.10	1.700	22.00	2.750	6.60	3.80	3.30
0.667	4.10	1.717	22.00	2.767	6.60	3.82	3.30
0.683	4.60	1.733	22.00	2.783	6.60	3.83	3.30
0.700	4.60	1.750	22.00	2.800	6.60	3.85	3.20
0.717	4.60	1.767	22.00	2.817	6.60	3.87	3.20
0.733	4.60	1.783	22.00	2.833	6.60	3.88	3.20
0.750	4.60	1.800	22.00	2.850	5.60	3.90	3.20
0.767	4.60	1.817	22.00	2.867	5.60	3.92	3.20
0.783	4.60	1.833	22.00	2.883	5.60	3.93	3.20
0.800	4.60	1.850	135.99	2.900	5.60	3.95	3.20
0.817	4.60	1.867	136.00	2.917	5.60	3.97	3.20
0.833	4.60	1.883	136.00	2.933	5.60	3.98	3.20
0.850	5.20	1.900	136.00	2.950	5.60	4.00	3.20
0.867	5.20	1.917	136.00	2.967	5.60	4.02	3.10
0.883	5.20	1.933	136.00	2.983	5.60	4.03	3.10
0.900	5.20	1.950	136.00	3.000	5.60	4.05	3.10
0.917	5.20	1.967	136.00	3.017	4.90	4.07	3.10
0.933	5.20	1.983	136.00	3.033	4.90	4.08	3.10
0.950	5.20	2.000	136.00	3.050	4.90	4.10	3.10
0.967	5.20	2.017	38.01	3.067	4.90	4.12	3.10
0.983	5.20	2.033	38.00	3.083	4.90	4.13	3.10
1.000	5.20	2.050	38.00	3.100	4.90	4.15	3.10
1.017	6.00	2.067	38.00	3.117	4.90	4.17	3.10
1.033	6.00	2.083	38.00	3.133	4.90		
1.050	6.00	2.100	38.00	3.150	4.90		

Max.Eff.Inten.(mm/hr)=	136.00	74.71	
over (min)	5.00	3.00	
Storage Coeff. (min)=	1.39 (ii)	2.38 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.43	0.43	
			TOTALS
PEAK FLOW (cms)=	0.06	0.00	0.055 (iii)
TIME TO PEAK (hrs)=	2.00	2.00	2.00
RUNOFF VOLUME (mm)=	53.33	28.58	53.08
TOTAL RAINFALL (mm)=	54.33	54.33	54.33
RUNOFF COEFFICIENT =	0.98	0.53	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0103) IN= 2---> OUT= 1 DT= 5.0 min	OVERFLOW IS OFF			
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0250	0.0040
	0.0130	0.0020	0.0380	0.0059

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2014)	0.148	0.055	2.00	53.08
OUTFLOW: ID= 1 (0103)	0.148	0.020	2.10	52.83

PEAK FLOW REDUCTION [Qout/Qin](%)= 36.70
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0032

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB STANDHYD (2013) ID= 1 DT= 1.0 min	Area (ha)= 0.31 Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00	
	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.31	0.00

Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	65.00	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	6.00	2.117	38.00	3.17	4.90
0.033	0.00	1.083	6.00	2.133	38.00	3.18	4.30
0.050	0.00	1.100	6.00	2.150	38.00	3.20	4.30
0.067	0.00	1.117	6.00	2.167	38.00	3.22	4.30
0.083	0.00	1.133	6.00	2.183	16.00	3.23	4.30
0.100	0.00	1.150	6.00	2.200	16.00	3.25	4.30
0.117	0.00	1.167	6.00	2.217	16.00	3.27	4.30
0.133	0.00	1.183	7.20	2.233	16.00	3.28	4.30
0.150	0.00	1.200	7.20	2.250	16.00	3.30	4.30
0.167	0.00	1.217	7.20	2.267	16.00	3.32	4.30
0.183	3.40	1.233	7.20	2.283	16.00	3.33	4.30
0.200	3.40	1.250	7.20	2.300	16.00	3.35	3.90
0.217	3.40	1.267	7.20	2.317	16.00	3.37	3.90
0.233	3.40	1.283	7.20	2.333	16.00	3.38	3.90
0.250	3.40	1.300	7.20	2.350	11.00	3.40	3.90
0.267	3.40	1.317	7.20	2.367	11.00	3.42	3.90
0.283	3.40	1.333	7.20	2.383	11.00	3.43	3.90
0.300	3.40	1.350	9.20	2.400	11.00	3.45	3.90
0.317	3.40	1.367	9.20	2.417	11.00	3.47	3.90
0.333	3.40	1.383	9.20	2.433	11.00	3.48	3.90
0.350	3.70	1.400	9.20	2.450	11.00	3.50	3.90
0.367	3.70	1.417	9.20	2.467	11.00	3.52	3.60
0.383	3.70	1.433	9.20	2.483	11.00	3.53	3.60
0.400	3.70	1.450	9.20	2.500	11.00	3.55	3.60
0.417	3.70	1.467	9.20	2.517	8.10	3.57	3.60
0.433	3.70	1.483	9.20	2.533	8.10	3.58	3.60
0.450	3.70	1.500	9.20	2.550	8.10	3.60	3.60
0.467	3.70	1.517	13.00	2.567	8.10	3.62	3.60
0.483	3.70	1.533	13.00	2.583	8.10	3.63	3.60
0.500	3.70	1.550	13.00	2.600	8.10	3.65	3.60
0.517	4.10	1.567	13.00	2.617	8.10	3.67	3.60
0.533	4.10	1.583	13.00	2.633	8.10	3.68	3.30
0.550	4.10	1.600	13.00	2.650	8.10	3.70	3.30
0.567	4.10	1.617	13.00	2.667	8.10	3.72	3.30
0.583	4.10	1.633	13.00	2.683	6.60	3.73	3.30
0.600	4.10	1.650	13.00	2.700	6.60	3.75	3.30
0.617	4.10	1.667	13.00	2.717	6.60	3.77	3.30
0.633	4.10	1.683	22.00	2.733	6.60	3.78	3.30
0.650	4.10	1.700	22.00	2.750	6.60	3.80	3.30
0.667	4.10	1.717	22.00	2.767	6.60	3.82	3.30
0.683	4.60	1.733	22.00	2.783	6.60	3.83	3.30
0.700	4.60	1.750	22.00	2.800	6.60	3.85	3.20
0.717	4.60	1.767	22.00	2.817	6.60	3.87	3.20
0.733	4.60	1.783	22.00	2.833	6.60	3.88	3.20
0.750	4.60	1.800	22.00	2.850	5.60	3.90	3.20
0.767	4.60	1.817	22.00	2.867	5.60	3.92	3.20
0.783	4.60	1.833	22.00	2.883	5.60	3.93	3.20
0.800	4.60	1.850	135.99	2.900	5.60	3.95	3.20
0.817	4.60	1.867	136.00	2.917	5.60	3.97	3.20
0.833	4.60	1.883	136.00	2.933	5.60	3.98	3.20
0.850	5.20	1.900	136.00	2.950	5.60	4.00	3.20
0.867	5.20	1.917	136.00	2.967	5.60	4.02	3.10
0.883	5.20	1.933	136.00	2.983	5.60	4.03	3.10
0.900	5.20	1.950	136.00	3.000	5.60	4.05	3.10
0.917	5.20	1.967	136.00	3.017	4.90	4.07	3.10
0.933	5.20	1.983	136.00	3.033	4.90	4.08	3.10
0.950	5.20	2.000	136.00	3.050	4.90	4.10	3.10
0.967	5.20	2.017	38.01	3.067	4.90	4.12	3.10
0.983	5.20	2.033	38.00	3.083	4.90	4.13	3.10
1.000	5.20	2.050	38.00	3.100	4.90	4.15	3.10
1.017	6.00	2.067	38.00	3.117	4.90	4.17	3.10
1.033	6.00	2.083	38.00	3.133	4.90		
1.050	6.00	2.100	38.00	3.150	4.90		

Max.Eff.Inten.(mm/hr)=	136.00	74.71	
over (min)	5.00	4.00	
Storage Coeff. (min)=	2.15 (ii)	3.14 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.36	0.33	
			TOTALS
PEAK FLOW (cms)=	0.11	0.00	0.113 (iii)
TIME TO PEAK (hrs)=	2.00	2.02	2.00
RUNOFF VOLUME (mm)=	53.33	28.58	53.08
TOTAL RAINFALL (mm)=	54.33	54.33	54.33
RUNOFF COEFFICIENT =	0.98	0.53	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0102)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)

```
                        0.0000     0.0000   |   0.0440      0.0083
                        0.0220     0.0041   |   0.0660      0.0124

                                  AREA     QPEAK     TPEAK       R.V.
                                  (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2013)      0.310      0.113      2.00      53.08
   OUTFLOW: ID= 1 (  0102)      0.310      0.038      2.15      52.93

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 33.47
                  TIME SHIFT OF PEAK FLOW         (min)=  9.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0071

    **** WARNING : SELECTED ROUTING TIME STEP DENIED.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0101):     0.23   0.031     2.13    52.73
     + ID2= 2 (  0102):     0.31   0.038     2.15    52.93
       ================================================
       ID = 3 (  0001):     0.54   0.069     2.13    52.85

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 3 (  0001):     0.54   0.069     2.13    52.85
     + ID2= 2 (  0103):     0.15   0.020     2.10    52.83
       ================================================
       ID = 1 (  0001):     0.69   0.089     2.13    52.84

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0204)|   Area    (ha)=   0.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  55.00   Dir. Conn.(%)=  55.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
    Surface Area     (ha)=       0.18         0.15
    Dep. Storage     (mm)=       1.00         5.00
    Average Slope     (%)=       1.00         2.00
    Length            (m)=      46.60        40.00
    Mannings n           =      0.013        0.250
```

```
    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    0.00 | 1.167    6.00 | 2.250   16.00 |  3.33    4.30
    0.167    0.00 | 1.250    7.20 | 2.333   16.00 |  3.42    3.90
    0.250    3.40 | 1.333    7.20 | 2.417   11.00 |  3.50    3.90
    0.333    3.40 | 1.417    9.20 | 2.500   11.00 |  3.58    3.60
    0.417    3.70 | 1.500    9.20 | 2.583    8.10 |  3.67    3.60
    0.500    3.70 | 1.583   13.00 | 2.667    8.10 |  3.75    3.30
    0.583    4.10 | 1.667   13.00 | 2.750    6.60 |  3.83    3.30
    0.667    4.10 | 1.750   22.00 | 2.833    6.60 |  3.92    3.20
    0.750    4.60 | 1.833   22.00 | 2.917    5.60 |  4.00    3.20
    0.833    4.60 | 1.917  136.00 | 3.000    5.60 |  4.08    3.10
    0.917    5.20 | 2.000  136.00 | 3.083    4.90 |  4.17    3.10
    1.000    5.20 | 2.083   38.00 | 3.167    4.90 |
    1.083    6.00 | 2.167   38.00 | 3.250    4.30 |

  Max.Eff.Inten.(mm/hr)=     136.00        20.44
            over (min)         5.00        15.00
  Storage Coeff.  (min)=       1.43 (ii)   14.75 (ii)
  Unit Hyd. Tpeak (min)=       5.00        15.00
  Unit Hyd. peak  (cms)=       0.33         0.08
                                                      *TOTALS*
  PEAK FLOW       (cms)=       0.07         0.01        0.070 (iii)
  TIME TO PEAK    (hrs)=       2.00         2.17         2.00
  RUNOFF VOLUME    (mm)=      53.33        10.78        34.16
  TOTAL RAINFALL   (mm)=      54.33        54.33        54.33
  RUNOFF COEFFICIENT   =       0.98         0.20         0.63

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

     (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  59.0    Ia = Dep. Storage  (Above)
    (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
         THAN THE STORAGE COEFFICIENT.
   (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0002)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0001):     0.69   0.089     2.13    52.84
     + ID2= 2 (  2011):     1.84   0.546     2.00    43.54
       ================================================
       ID = 3 (  0002):     2.53   0.611     2.00    46.07
```

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0002)		AREA	QPEAK	TPEAK	R.V.
3 + 2 = 1		(ha)	(cms)	(hrs)	(mm)
	ID1= 3 (0002):	2.53	0.611	2.00	46.07
	+ ID2= 2 (0204):	0.33	0.070	2.00	34.16
	ID = 1 (0002):	2.85	0.681	2.00	44.71

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CHAMBER(0025)	OUTFLOW: ON, UNDERDRAIN: OFF, INFIL: OFF
IN= 2--> OUT= 3	CHAMBER:
DT= 5.0 min	MAX STO VOL (cu.m.)= 710.04 Bottom Area(m2) = 614.46

DEPTH (mm)	STORAGE (cu.m.)	DEPTH (mm)	STORAGE (cu.m.)
0.00	0.00	864.00	430.26
25.00	13.40	889.00	441.69
51.00	26.76	914.00	453.02
76.00	40.09	940.00	464.23
102.00	53.40	965.00	475.34
127.00	66.68	991.00	486.32
152.00	79.92	1016.00	497.18
178.00	93.14	1041.00	507.92
203.00	106.32	1067.00	518.52
229.00	119.46	1092.00	528.98
254.00	132.57	1118.00	539.29
279.00	145.64	1143.00	549.44
305.00	158.66	1168.00	559.43
330.00	171.65	1194.00	569.25
356.00	184.58	1219.00	578.88
381.00	197.47	1245.00	588.32
406.00	210.31	1270.00	597.54
432.00	223.09	1295.00	606.52
457.00	235.83	1321.00	615.24
483.00	248.51	1346.00	623.67
508.00	261.13	1372.00	631.72
533.00	273.68	1397.00	639.20
559.00	286.18	1422.00	646.18
584.00	298.61	1448.00	653.00
610.00	310.97	1473.00	659.69
635.00	323.26	1499.00	666.24
660.00	335.48	1524.00	672.59
686.00	347.62	1549.00	678.83
711.00	359.68	1575.00	685.08
737.00	371.67	1600.00	691.32
762.00	383.57	1626.00	697.56
787.00	395.38	1651.00	703.80
813.00	407.10	1676.00	710.04
838.00	418.73	0.00	0.00

DEPTH (m)	DISCHARGE (cms)	DEPTH (m)	DISCHARGE (cms)
0.000	0.000	1.255	0.504
0.455	0.000	1.355	0.535
0.555	0.178	1.455	0.564
0.655	0.252	1.555	0.591
0.755	0.309	1.655	0.617
0.855	0.356	1.755	0.643
0.955	0.399	1.855	0.667
1.055	0.437	1.955	0.690
1.155	0.472	2.055	0.713

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW:ID= 2	2.85	0.681	2.00	44.71
OUTFLOW:ID= 1	2.85	0.384	2.07	36.48
OVERFLOW:ID= 3	0.00	0.000	0.00	0.00

Volume Reduction Rate[(RVin-RVout)/RVin](%)= 18.42
Time to reach Max storage (Hr)= 2.07
Volume of water for drawdown in LID (cu.m.)= 234.86
Volume of maximum water storage (cu.m.)= 432.48
***** After simulation, water volume is not zero.

Junction Command(0034)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

Junction Command(0035)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.38	2.07	36.48
OUTFLOW: ID= 2(0035)	2.85	0.38	2.07	36.48

```
--------------------
| CALIB            |
| STANDHYD (  0202)|   Area    (ha)=   0.10
|ID= 1 DT= 5.0 min |   Total Imp(%)=  11.00   Dir. Conn.(%)=  11.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.01         0.09
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      25.66        40.00
     Mannings n            =      0.013        0.250

         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    0.00 | 1.167    6.00 | 2.250   16.00 |  3.33    4.30
              0.167    0.00 | 1.250    7.20 | 2.333   16.00 |  3.42    3.90
              0.250    3.40 | 1.333    7.20 | 2.417   11.00 |  3.50    3.90
              0.333    3.40 | 1.417    9.20 | 2.500   11.00 |  3.58    3.60
              0.417    3.70 | 1.500    9.20 | 2.583    8.10 |  3.67    3.60
              0.500    3.70 | 1.583   13.00 | 2.667    8.10 |  3.75    3.30
              0.583    4.10 | 1.667   13.00 | 2.750    6.60 |  3.83    3.30
              0.667    4.10 | 1.750   22.00 | 2.833    6.60 |  3.92    3.20
              0.750    4.60 | 1.833   22.00 | 2.917    5.60 |  4.00    3.20
              0.833    4.60 | 1.917  136.00 | 3.000    5.60 |  4.08    3.10
              0.917    5.20 | 2.000  136.00 | 3.083    4.90 |  4.17    3.10
              1.000    5.20 | 2.083   38.00 | 3.167    4.90 |
              1.083    6.00 | 2.167   38.00 | 3.250    4.30 |

     Max.Eff.Inten.(mm/hr)=     136.00        20.44
               over (min)        5.00        15.00
     Storage Coeff.  (min)=       1.00 (ii)   14.32 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=       0.34         0.08
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.00         0.00          0.006 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.17           2.00
     RUNOFF VOLUME    (mm)=      53.33        10.78          15.37
     TOTAL RAINFALL   (mm)=      54.33        54.33          54.33
     RUNOFF COEFFICIENT   =       0.98         0.20           0.28

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
             YOU SHOULD CONSIDER SPLITTING THE AREA.
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      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  59.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------
| CALIB            |
| STANDHYD (  0203)|   Area    (ha)=   0.05
|ID= 1 DT= 5.0 min |   Total Imp(%)=  27.00   Dir. Conn.(%)=  27.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.01         0.04
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      18.90        40.00
     Mannings n            =      0.013        0.250

         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    0.00 | 1.167    6.00 | 2.250   16.00 |  3.33    4.30
              0.167    0.00 | 1.250    7.20 | 2.333   16.00 |  3.42    3.90
              0.250    3.40 | 1.333    7.20 | 2.417   11.00 |  3.50    3.90
              0.333    3.40 | 1.417    9.20 | 2.500   11.00 |  3.58    3.60
              0.417    3.70 | 1.500    9.20 | 2.583    8.10 |  3.67    3.60
              0.500    3.70 | 1.583   13.00 | 2.667    8.10 |  3.75    3.30
              0.583    4.10 | 1.667   13.00 | 2.750    6.60 |  3.83    3.30
              0.667    4.10 | 1.750   22.00 | 2.833    6.60 |  3.92    3.20
              0.750    4.60 | 1.833   22.00 | 2.917    5.60 |  4.00    3.20
              0.833    4.60 | 1.917  136.00 | 3.000    5.60 |  4.08    3.10
              0.917    5.20 | 2.000  136.00 | 3.083    4.90 |  4.17    3.10
              1.000    5.20 | 2.083   38.00 | 3.167    4.90 |
              1.083    6.00 | 2.167   38.00 | 3.250    4.30 |

     Max.Eff.Inten.(mm/hr)=     136.00        20.44
               over (min)        5.00        15.00
     Storage Coeff.  (min)=       0.83 (ii)   14.15 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=       0.34         0.08
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.01         0.00          0.006 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.17           2.00
     RUNOFF VOLUME    (mm)=      53.33        10.78          22.13
     TOTAL RAINFALL   (mm)=      54.33        54.33          54.33
     RUNOFF COEFFICIENT   =       0.98         0.20           0.41
```

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0003)					
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0202):	0.10	0.006	2.00	15.37	
+ ID2= 2 (0203):	0.05	0.006	2.00	22.13	
ID = 3 (0003):	0.15	0.012	2.00	17.75	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0003)					
3 + 2 = 1	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	

*** W A R N I N G : HYDROGRAPH 0034 <ID= 2> IS DRY.
*** W A R N I N G : HYDROGRAPH 0001 = HYDROGRAPH 0003

ID1= 3 (0003):	0.15	0.012	2.00	17.75
+ ID2= 2 (0034):	0.00	0.000	0.00	0.00
ID = 1 (0003):	0.15	0.012	2.00	17.75

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0003)					
1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.	
	(ha)	(cms)	(hrs)	(mm)	
ID1= 1 (0003):	0.15	0.012	2.00	17.75	
+ ID2= 2 (0035):	2.85	0.384	2.07	36.48	
ID = 3 (0003):	3.00	0.391	2.07	35.53	

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

****
** SIMULATION:2.3 25Y4H Chicago Design Storm **

****

READ STORM	Filename: C:\Users\CAAS077425\AppData\Local\Temp\928a9435-1a45-4733-a537-3482c3d30588\98a05c9c
Ptotal= 62.05 mm	Comments: 25Y4H Chicago Design Storm

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.00	1.17	8.30	2.33	12.00	3.50	4.20
0.17	4.10	1.33	10.00	2.50	9.20	3.67	3.90
0.33	4.40	1.50	14.00	2.67	7.60	3.83	3.80
0.50	4.80	1.67	24.00	2.83	6.50	4.00	3.60
0.67	5.40	1.83	160.00	3.00	5.70		
0.83	6.10	2.00	40.00	3.17	5.10		
1.00	7.00	2.17	18.00	3.33	4.60		

CALIB	
STANDHYD (2011)|	Area (ha)= 1.84
ID= 1 DT= 5.0 min	Total Imp(%)= 77.00 Dir. Conn.(%)= 77.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.42	0.42
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	110.72	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	1.167	7.00	2.250	18.00	3.33	5.10
0.167	0.00	1.250	8.30	2.333	18.00	3.42	4.60
0.250	4.10	1.333	8.30	2.417	12.00	3.50	4.60
0.333	4.10	1.417	10.00	2.500	12.00	3.58	4.20
0.417	4.40	1.500	10.00	2.583	9.20	3.67	4.20
0.500	4.40	1.583	14.00	2.667	9.20	3.75	3.90
0.583	4.80	1.667	14.00	2.750	7.60	3.83	3.90
0.667	4.80	1.750	24.00	2.833	7.60	3.92	3.80
0.750	5.40	1.833	24.00	2.917	6.50	4.00	3.80
0.833	5.40	1.917	160.00	3.000	6.50	4.08	3.60
0.917	6.10	2.000	160.00	3.083	5.70	4.17	3.60
1.000	6.10	2.083	40.00	3.167	5.70		

1.083	7.00	2.167	40.00	3.250	5.10

Max.Eff.Inten.(mm/hr)=	160.00	34.22	
over (min)	5.00	10.00	
Storage Coeff. (min)=	2.25 (ii)	5.86 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.30	0.15	
			TOTALS
PEAK FLOW (cms)=	0.62	0.03	0.648 (iii)
TIME TO PEAK (hrs)=	2.00	2.08	2.00
RUNOFF VOLUME (mm)=	61.05	13.94	50.21
TOTAL RAINFALL (mm)=	62.05	62.05	62.05
RUNOFF COEFFICIENT =	0.98	0.22	0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (2012)	Area (ha)= 0.23
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.23	0.00
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.50	2.00
Length	(m)=	67.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	7.00	2.117	40.00	3.17	5.70
0.033	0.00	1.083	7.00	2.133	40.00	3.18	5.10
0.050	0.00	1.100	7.00	2.150	40.00	3.20	5.10
0.067	0.00	1.117	7.00	2.167	40.00	3.22	5.10
0.083	0.00	1.133	7.00	2.183	18.00	3.23	5.10
0.100	0.00	1.150	7.00	2.200	18.00	3.25	5.10
0.117	0.00	1.167	7.00	2.217	18.00	3.27	5.10
0.133	0.00	1.183	8.30	2.233	18.00	3.28	5.10
0.150	0.00	1.200	8.30	2.250	18.00	3.30	5.10
0.167	0.00	1.217	8.30	2.267	18.00	3.32	5.10
0.183	4.10	1.233	8.30	2.283	18.00	3.33	5.10
0.200	4.10	1.250	8.30	2.300	18.00	3.35	4.60
0.217	4.10	1.267	8.30	2.317	18.00	3.37	4.60
0.233	4.10	1.283	8.30	2.333	18.00	3.38	4.60
0.250	4.10	1.300	8.30	2.350	12.00	3.40	4.60
0.267	4.10	1.317	8.30	2.367	12.00	3.42	4.60
0.283	4.10	1.333	8.30	2.383	12.00	3.43	4.60
0.300	4.10	1.350	10.00	2.400	12.00	3.45	4.60
0.317	4.10	1.367	10.00	2.417	12.00	3.47	4.60
0.333	4.10	1.383	10.00	2.433	12.00	3.48	4.60
0.350	4.40	1.400	10.00	2.450	12.00	3.50	4.60
0.367	4.40	1.417	10.00	2.467	12.00	3.52	4.20
0.383	4.40	1.433	10.00	2.483	12.00	3.53	4.20
0.400	4.40	1.450	10.00	2.500	12.00	3.55	4.20
0.417	4.40	1.467	10.00	2.517	9.20	3.57	4.20
0.433	4.40	1.483	10.00	2.533	9.20	3.58	4.20
0.450	4.40	1.500	10.00	2.550	9.20	3.60	4.20
0.467	4.40	1.517	14.00	2.567	9.20	3.62	4.20
0.483	4.40	1.533	14.00	2.583	9.20	3.63	4.20
0.500	4.40	1.550	14.00	2.600	9.20	3.65	4.20
0.517	4.80	1.567	14.00	2.617	9.20	3.67	4.20
0.533	4.80	1.583	14.00	2.633	9.20	3.68	3.90
0.550	4.80	1.600	14.00	2.650	9.20	3.70	3.90
0.567	4.80	1.617	14.00	2.667	9.20	3.72	3.90
0.583	4.80	1.633	14.00	2.683	7.60	3.73	3.90
0.600	4.80	1.650	14.00	2.700	7.60	3.75	3.90
0.617	4.80	1.667	14.00	2.717	7.60	3.77	3.90
0.633	4.80	1.683	24.00	2.733	7.60	3.78	3.90
0.650	4.80	1.700	24.00	2.750	7.60	3.80	3.90
0.667	4.80	1.717	24.00	2.767	7.60	3.82	3.90
0.683	5.40	1.733	24.00	2.783	7.60	3.83	3.90
0.700	5.40	1.750	24.00	2.800	7.60	3.85	3.80
0.717	5.40	1.767	24.00	2.817	7.60	3.87	3.80
0.733	5.40	1.783	24.00	2.833	7.60	3.88	3.80
0.750	5.40	1.800	24.00	2.850	6.50	3.90	3.80
0.767	5.40	1.817	24.00	2.867	6.50	3.92	3.80
0.783	5.40	1.833	24.00	2.883	6.50	3.93	3.80
0.800	5.40	1.850	159.99	2.900	6.50	3.95	3.80
0.817	5.40	1.867	160.00	2.917	6.50	3.97	3.80
0.833	5.40	1.883	160.00	2.933	6.50	3.98	3.80
0.850	6.10	1.900	160.00	2.950	6.50	4.00	3.80
0.867	6.10	1.917	160.00	2.967	6.50	4.02	3.60
0.883	6.10	1.933	160.00	2.983	6.50	4.03	3.60
0.900	6.10	1.950	160.00	3.000	6.50	4.05	3.60
0.917	6.10	1.967	160.00	3.017	5.70	4.07	3.60
0.933	6.10	1.983	160.00	3.033	5.70	4.08	3.60
0.950	6.10	2.000	160.00	3.050	5.70	4.10	3.60
0.967	6.10	2.017	40.01	3.067	5.70	4.12	3.60
0.983	6.10	2.033	40.00	3.083	5.70	4.13	3.60

1.000	6.10	2.050	40.00	3.100	5.70	4.15	3.60
1.017	7.00	2.067	40.00	3.117	5.70	4.17	3.60
1.033	7.00	2.083	40.00	3.133	5.70		
1.050	7.00	2.100	40.00	3.150	5.70		

Max.Eff.Inten.(mm/hr)=	160.00	34.22	
over (min)	5.00	3.00	
Storage Coeff. (min)=	2.05 (ii)	2.98 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.37	0.38	
			TOTALS
PEAK FLOW (cms)=	0.10	0.00	0.098 (iii)
TIME TO PEAK (hrs)=	2.00	2.02	2.00
RUNOFF VOLUME (mm)=	61.05	13.94	60.57
TOTAL RAINFALL (mm)=	62.05	62.05	62.05
RUNOFF COEFFICIENT =	0.98	0.22	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0101)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0380	0.0061
	0.0190	0.0030	0.0570	0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.098	2.00	60.57
OUTFLOW: ID= 1 (0101)	0.229	0.036	2.12	60.40

PEAK FLOW REDUCTION [Qout/Qin](%)= 36.18
TIME SHIFT OF PEAK FLOW (min)= 7.00
MAXIMUM STORAGE USED (ha.m.)= 0.0057

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB		
STANDHYD (2014)	Area (ha)= 0.15	
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00	Dir. Conn.(%)= 99.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.15	0.00
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	0.50	2.00
Length (m)=	31.44	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	7.00	2.117	40.00	3.17	5.70
0.033	0.00	1.083	7.00	2.133	40.00	3.18	5.10
0.050	0.00	1.100	7.00	2.150	40.00	3.20	5.10
0.067	0.00	1.117	7.00	2.167	40.00	3.22	5.10
0.083	0.00	1.133	7.00	2.183	18.00	3.23	5.10
0.100	0.00	1.150	7.00	2.200	18.00	3.25	5.10
0.117	0.00	1.167	7.00	2.217	18.00	3.27	5.10
0.133	0.00	1.183	8.30	2.233	18.00	3.28	5.10
0.150	0.00	1.200	8.30	2.250	18.00	3.30	5.10
0.167	0.00	1.217	8.30	2.267	18.00	3.32	5.10
0.183	4.10	1.233	8.30	2.283	18.00	3.33	5.10
0.200	4.10	1.250	8.30	2.300	18.00	3.35	4.60
0.217	4.10	1.267	8.30	2.317	18.00	3.37	4.60
0.233	4.10	1.283	8.30	2.333	18.00	3.38	4.60
0.250	4.10	1.300	8.30	2.350	12.00	3.40	4.60
0.267	4.10	1.317	8.30	2.367	12.00	3.42	4.60
0.283	4.10	1.333	8.30	2.383	12.00	3.43	4.60
0.300	4.10	1.350	10.00	2.400	12.00	3.45	4.60
0.317	4.10	1.367	10.00	2.417	12.00	3.47	4.60
0.333	4.10	1.383	10.00	2.433	12.00	3.48	4.60
0.350	4.40	1.400	10.00	2.450	12.00	3.50	4.60
0.367	4.40	1.417	10.00	2.467	12.00	3.52	4.20
0.383	4.40	1.433	10.00	2.483	12.00	3.53	4.20
0.400	4.40	1.450	10.00	2.500	12.00	3.55	4.20
0.417	4.40	1.467	10.00	2.517	9.20	3.57	4.20
0.433	4.40	1.483	10.00	2.533	9.20	3.58	4.20
0.450	4.40	1.500	10.00	2.550	9.20	3.60	4.20
0.467	4.40	1.517	14.00	2.567	9.20	3.62	4.20
0.483	4.40	1.533	14.00	2.583	9.20	3.63	4.20
0.500	4.40	1.550	14.00	2.600	9.20	3.65	4.20
0.517	4.80	1.567	14.00	2.617	9.20	3.67	4.20
0.533	4.80	1.583	14.00	2.633	9.20	3.68	3.90
0.550	4.80	1.600	14.00	2.650	9.20	3.70	3.90
0.567	4.80	1.617	14.00	2.667	9.20	3.72	3.90
0.583	4.80	1.633	14.00	2.683	7.60	3.73	3.90
0.600	4.80	1.650	14.00	2.700	7.60	3.75	3.90
0.617	4.80	1.667	14.00	2.717	7.60	3.77	3.90
0.633	4.80	1.683	24.00	2.733	7.60	3.78	3.90

0.650	4.80	1.700	24.00	2.750	7.60	3.80	3.90
0.667	4.80	1.717	24.00	2.767	7.60	3.82	3.90
0.683	5.40	1.733	24.00	2.783	7.60	3.83	3.90
0.700	5.40	1.750	24.00	2.800	7.60	3.85	3.80
0.717	5.40	1.767	24.00	2.817	7.60	3.87	3.80
0.733	5.40	1.783	24.00	2.833	7.60	3.88	3.80
0.750	5.40	1.800	24.00	2.850	6.50	3.90	3.80
0.767	5.40	1.817	24.00	2.867	6.50	3.92	3.80
0.783	5.40	1.833	24.00	2.883	6.50	3.93	3.80
0.800	5.40	1.850	159.99	2.900	6.50	3.95	3.80
0.817	5.40	1.867	160.00	2.917	6.50	3.97	3.80
0.833	5.40	1.883	160.00	2.933	6.50	3.98	3.80
0.850	6.10	1.900	160.00	2.950	6.50	4.00	3.80
0.867	6.10	1.917	160.00	2.967	6.50	4.02	3.60
0.883	6.10	1.933	160.00	2.983	6.50	4.03	3.60
0.900	6.10	1.950	160.00	3.000	6.50	4.05	3.60
0.917	6.10	1.967	160.00	3.017	5.70	4.07	3.60
0.933	6.10	1.983	160.00	3.033	5.70	4.08	3.60
0.950	6.10	2.000	160.00	3.050	5.70	4.10	3.60
0.967	6.10	2.017	40.01	3.067	5.70	4.12	3.60
0.983	6.10	2.033	40.00	3.083	5.70	4.13	3.60
1.000	6.10	2.050	40.00	3.100	5.70	4.15	3.60
1.017	7.00	2.067	40.00	3.117	5.70	4.17	3.60
1.033	7.00	2.083	40.00	3.133	5.70		
1.050	7.00	2.100	40.00	3.150	5.70		

Max.Eff.Inten.(mm/hr)=	160.00	94.55		
over (min)	5.00	3.00		
Storage Coeff. (min)=	1.30 (ii)	2.23 (ii)		
Unit Hyd. Tpeak (min)=	5.00	3.00		
Unit Hyd. peak (cms)=	0.44	0.45		
			TOTALS	
PEAK FLOW (cms)=	0.06	0.00	0.065 (iii)	
TIME TO PEAK (hrs)=	2.00	2.00	2.00	
RUNOFF VOLUME (mm)=	61.05	34.79	60.78	
TOTAL RAINFALL (mm)=	62.05	62.05	62.05	
RUNOFF COEFFICIENT =	0.98	0.56	0.98	

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0103)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE
	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.0250	0.0040
	0.0130	0.0020	0.0380	0.0059

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2014)	0.148	0.065	2.00	60.78
OUTFLOW: ID= 1 (0103)	0.148	0.023	2.10	60.52

PEAK FLOW REDUCTION [Qout/Qin](%)= 35.89
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0038

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB			
STANDHYD (2013)	Area (ha)= 0.31		
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00	Dir. Conn.(%)= 99.00	
	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	0.31	0.00	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	0.50	2.00	
Length (m)=	65.00	40.00	
Mannings n =	0.013	0.250	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	7.00	2.117	40.00	3.17	5.70
0.033	0.00	1.083	7.00	2.133	40.00	3.18	5.10
0.050	0.00	1.100	7.00	2.150	40.00	3.20	5.10
0.067	0.00	1.117	7.00	2.167	40.00	3.22	5.10
0.083	0.00	1.133	7.00	2.183	18.00	3.23	5.10
0.100	0.00	1.150	7.00	2.200	18.00	3.25	5.10
0.117	0.00	1.167	7.00	2.217	18.00	3.27	5.10
0.133	0.00	1.183	8.30	2.233	18.00	3.28	5.10
0.150	0.00	1.200	8.30	2.250	18.00	3.30	5.10
0.167	0.00	1.217	8.30	2.267	18.00	3.32	5.10
0.183	4.10	1.233	8.30	2.283	18.00	3.33	5.10
0.200	4.10	1.250	8.30	2.300	18.00	3.35	4.60
0.217	4.10	1.267	8.30	2.317	18.00	3.37	4.60
0.233	4.10	1.283	8.30	2.333	18.00	3.38	4.60
0.250	4.10	1.300	8.30	2.350	12.00	3.40	4.60
0.267	4.10	1.317	8.30	2.367	12.00	3.42	4.60
0.283	4.10	1.333	8.30	2.383	12.00	3.43	4.60

0.300	4.10	1.350	10.00	2.400	12.00	3.45	4.60
0.317	4.10	1.367	10.00	2.417	12.00	3.47	4.60
0.333	4.10	1.383	10.00	2.433	12.00	3.48	4.60
0.350	4.40	1.400	10.00	2.450	12.00	3.50	4.60
0.367	4.40	1.417	10.00	2.467	12.00	3.52	4.20
0.383	4.40	1.433	10.00	2.483	12.00	3.53	4.20
0.400	4.40	1.450	10.00	2.500	12.00	3.55	4.20
0.417	4.40	1.467	10.00	2.517	9.20	3.57	4.20
0.433	4.40	1.483	10.00	2.533	9.20	3.58	4.20
0.450	4.40	1.500	10.00	2.550	9.20	3.60	4.20
0.467	4.40	1.517	14.00	2.567	9.20	3.62	4.20
0.483	4.40	1.533	14.00	2.583	9.20	3.63	4.20
0.500	4.40	1.550	14.00	2.600	9.20	3.65	4.20
0.517	4.80	1.567	14.00	2.617	9.20	3.67	4.20
0.533	4.80	1.583	14.00	2.633	9.20	3.68	3.90
0.550	4.80	1.600	14.00	2.650	9.20	3.70	3.90
0.567	4.80	1.617	14.00	2.667	9.20	3.72	3.90
0.583	4.80	1.633	14.00	2.683	7.60	3.73	3.90
0.600	4.80	1.650	14.00	2.700	7.60	3.75	3.90
0.617	4.80	1.667	14.00	2.717	7.60	3.77	3.90
0.633	4.80	1.683	24.00	2.733	7.60	3.78	3.90
0.650	4.80	1.700	24.00	2.750	7.60	3.80	3.90
0.667	4.80	1.717	24.00	2.767	7.60	3.82	3.90
0.683	5.40	1.733	24.00	2.783	7.60	3.83	3.90
0.700	5.40	1.750	24.00	2.800	7.60	3.85	3.80
0.717	5.40	1.767	24.00	2.817	7.60	3.87	3.80
0.733	5.40	1.783	24.00	2.833	7.60	3.88	3.80
0.750	5.40	1.800	24.00	2.850	6.50	3.90	3.80
0.767	5.40	1.817	24.00	2.867	6.50	3.92	3.80
0.783	5.40	1.833	24.00	2.883	6.50	3.93	3.80
0.800	5.40	1.850	159.99	2.900	6.50	3.95	3.80
0.817	5.40	1.867	160.00	2.917	6.50	3.97	3.80
0.833	5.40	1.883	160.00	2.933	6.50	3.98	3.80
0.850	6.10	1.900	160.00	2.950	6.50	4.00	3.80
0.867	6.10	1.917	160.00	2.967	6.50	4.02	3.60
0.883	6.10	1.933	160.00	2.983	6.50	4.03	3.60
0.900	6.10	1.950	160.00	3.000	6.50	4.05	3.60
0.917	6.10	1.967	160.00	3.017	5.70	4.07	3.60
0.933	6.10	1.983	160.00	3.033	5.70	4.08	3.60
0.950	6.10	2.000	160.00	3.050	5.70	4.10	3.60
0.967	6.10	2.017	40.01	3.067	5.70	4.12	3.60
0.983	6.10	2.033	40.00	3.083	5.70	4.13	3.60
1.000	6.10	2.050	40.00	3.100	5.70	4.15	3.60
1.017	7.00	2.067	40.00	3.117	5.70	4.17	3.60
1.033	7.00	2.083	40.00	3.133	5.70		
1.050	7.00	2.100	40.00	3.150	5.70		

Max.Eff.Inten.(mm/hr)=	160.00	94.55
over (min)	5.00	3.00
Storage Coeff. (min)=	2.01 (ii)	2.94 (ii)

Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.37	0.38	
			TOTALS
PEAK FLOW (cms)=	0.13	0.00	0.134 (iii)
TIME TO PEAK (hrs)=	2.00	2.00	2.00
RUNOFF VOLUME (mm)=	61.05	34.79	60.78
TOTAL RAINFALL (mm)=	62.05	62.05	62.05
RUNOFF COEFFICIENT =	0.98	0.56	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0102)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0440	0.0083
	0.0220	0.0041	0.0660	0.0124

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2013)	0.310	0.134	2.00	60.78
OUTFLOW: ID= 1 (0102)	0.310	0.044	2.13	60.63

PEAK FLOW REDUCTION [Qout/Qin](%)= 32.60
TIME SHIFT OF PEAK FLOW (min)= 8.00
MAXIMUM STORAGE USED (ha.m.)= 0.0082

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

ADD HYD (0001)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				
ID1= 1 (0101):	0.23	0.036	2.12	60.40
+ ID2= 2 (0102):	0.31	0.044	2.13	60.63
ID = 3 (0001):	0.54	0.079	2.12	60.54

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
| ADD HYD  (  0001)|
|   3 +  2 =  1    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 3 (  0001):     0.54   0.079     2.12    60.54
     + ID2= 2 (  0103):     0.15   0.023     2.10    60.52
       ================================================
       ID = 1 (  0001):     0.69   0.103     2.12    60.53

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0204)|   Area    (ha)=   0.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  55.00   Dir. Conn.(%)=  55.00
--------------------

                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.18         0.15
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      46.60        40.00
     Mannings n           =      0.013        0.250

         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    0.00 | 1.167    7.00 | 2.250   18.00 |  3.33    5.10
             0.167    0.00 | 1.250    8.30 | 2.333   18.00 |  3.42    4.60
             0.250    4.10 | 1.333    8.30 | 2.417   12.00 |  3.50    4.60
             0.333    4.10 | 1.417   10.00 | 2.500   12.00 |  3.58    4.20
             0.417    4.40 | 1.500   10.00 | 2.583    9.20 |  3.67    4.20
             0.500    4.40 | 1.583   14.00 | 2.667    9.20 |  3.75    3.90
             0.583    4.80 | 1.667   14.00 | 2.750    7.60 |  3.83    3.90
             0.667    4.80 | 1.750   24.00 | 2.833    7.60 |  3.92    3.80
             0.750    5.40 | 1.833   24.00 | 2.917    6.50 |  4.00    3.80
             0.833    5.40 | 1.917  160.00 | 3.000    6.50 |  4.08    3.60
             0.917    6.10 | 2.000  160.00 | 3.083    5.70 |  4.17    3.60
             1.000    6.10 | 2.083   40.00 | 3.167    5.70 |
             1.083    7.00 | 2.167   40.00 | 3.250    5.10 |

     Max.Eff.Inten.(mm/hr)=     160.00        27.12
               over (min)          5.00        15.00
     Storage Coeff.  (min)=       1.34 (ii)   13.23 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=       0.33         0.08
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.08         0.01          0.083 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.17           2.00
     RUNOFF VOLUME    (mm)=      61.05        13.94          39.83
     TOTAL RAINFALL   (mm)=      62.05        62.05          62.05
     RUNOFF COEFFICIENT   =       0.98         0.22           0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0002)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0001):     0.69   0.103     2.12    60.53
     + ID2= 2 (  2011):     1.84   0.648     2.00    50.21
       ================================================
       ID = 3 (  0002):     2.53   0.723     2.00    53.02

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| ADD HYD  (  0002)|
|   3 +  2 =  1    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 3 (  0002):     2.53   0.723     2.00    53.02
     + ID2= 2 (  0204):     0.33   0.083     2.00    39.83
       ================================================
       ID = 1 (  0002):     2.85   0.806     2.00    51.51

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
------------------
| CHAMBER(  0025)|  OUTFLOW: ON,   UNDERDRAIN: OFF,  INFIL: OFF
|IN= 2--> OUT= 3 |  CHAMBER:
| DT=  5.0 min   |  MAX STO VOL (cu.m.)=  710.04  Bottom Area(m2)   =  614.46
------------------

                      DEPTH       STORAGE          |   DEPTH      STORAGE
                      (mm)        (cu.m.)          |   (mm)       (cu.m.)
                        0.00          0.00         |    864.00       430.26
                       25.00         13.40         |    889.00       441.69
                       51.00         26.76         |    914.00       453.02
                       76.00         40.09         |    940.00       464.23
                      102.00         53.40         |    965.00       475.34
                      127.00         66.68         |    991.00       486.32
```

152.00	79.92	|	1016.00	497.18
178.00	93.14	|	1041.00	507.92
203.00	106.32	|	1067.00	518.52
229.00	119.46	|	1092.00	528.98
254.00	132.57	|	1118.00	539.29
279.00	145.64	|	1143.00	549.44
305.00	158.66	|	1168.00	559.43
330.00	171.65	|	1194.00	569.25
356.00	184.58	|	1219.00	578.88
381.00	197.47	|	1245.00	588.32
406.00	210.31	|	1270.00	597.54
432.00	223.09	|	1295.00	606.52
457.00	235.83	|	1321.00	615.24
483.00	248.51	|	1346.00	623.67
508.00	261.13	|	1372.00	631.72
533.00	273.68	|	1397.00	639.20
559.00	286.18	|	1422.00	646.18
584.00	298.61	|	1448.00	653.00
610.00	310.97	|	1473.00	659.69
635.00	323.26	|	1499.00	666.24
660.00	335.48	|	1524.00	672.59
686.00	347.62	|	1549.00	678.83
711.00	359.68	|	1575.00	685.08
737.00	371.67	|	1600.00	691.32
762.00	383.57	|	1626.00	697.56
787.00	395.38	|	1651.00	703.80
813.00	407.10	|	1676.00	710.04
838.00	418.73	|	0.00	0.00

DEPTH (m)	DISCHARGE (cms)	|	DEPTH (m)	DISCHARGE (cms)
0.000	0.000	|	1.255	0.504
0.455	0.000	|	1.355	0.535
0.555	0.178	|	1.455	0.564
0.655	0.252	|	1.555	0.591
0.755	0.309	|	1.655	0.617
0.855	0.356	|	1.755	0.643
0.955	0.399	|	1.855	0.667
1.055	0.437	|	1.955	0.690
1.155	0.472	|	2.055	0.713

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW:ID= 2	2.85	0.806	2.00	51.51
OUTFLOW:ID= 1	2.85	0.439	2.07	43.28
OVERFLOW:ID= 3	0.00	0.000	0.00	0.00

Volume Reduction Rate[(RVin-RVout)/RVin](%)= 15.99
Time to reach Max storage (Hr)= 2.07
Volume of water for drawdown in LID (cu.m.)= 234.86

Volume of maximum water storage (cu.m.)= 489.92
***** After simulation, water volume is not zero.

Junction Command(0034)				
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

Junction Command(0035)				
	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.44	2.07	43.28
OUTFLOW: ID= 2(0035)	2.85	0.44	2.07	43.28

CALIB
STANDHYD (0202) ID= 1 DT= 5.0 min | Area (ha)= 0.10 Total Imp(%)= 11.00 Dir. Conn.(%)= 11.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.01	0.09
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	25.66	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	|	TIME hrs	RAIN mm/hr	|	TIME hrs	RAIN mm/hr	|	TIME hrs	RAIN mm/hr
0.083	0.00	|	1.167	7.00	|	2.250	18.00	|	3.33	5.10
0.167	0.00	|	1.250	8.30	|	2.333	18.00	|	3.42	4.60
0.250	4.10	|	1.333	8.30	|	2.417	12.00	|	3.50	4.60
0.333	4.10	|	1.417	10.00	|	2.500	12.00	|	3.58	4.20
0.417	4.40	|	1.500	10.00	|	2.583	9.20	|	3.67	4.20
0.500	4.40	|	1.583	14.00	|	2.667	9.20	|	3.75	3.90
0.583	4.80	|	1.667	14.00	|	2.750	7.60	|	3.83	3.90
0.667	4.80	|	1.750	24.00	|	2.833	7.60	|	3.92	3.80

```
              0.750    5.40 | 1.833   24.00 | 2.917    6.50 |  4.00    3.80
              0.833    5.40 | 1.917  160.00 | 3.000    6.50 |  4.08    3.60
              0.917    6.10 | 2.000  160.00 | 3.083    5.70 |  4.17    3.60
              1.000    6.10 | 2.083   40.00 | 3.167    5.70 |
              1.083    7.00 | 2.167   40.00 | 3.250    5.10 |

     Max.Eff.Inten.(mm/hr)=     160.00        27.12
               over (min)        5.00        15.00
     Storage Coeff.  (min)=       0.94 (ii)   12.83 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=       0.34         0.08
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.00         0.00          0.007 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.17           2.00
     RUNOFF VOLUME    (mm)=      61.05        13.94          19.03
     TOTAL RAINFALL   (mm)=      62.05        62.05          62.05
     RUNOFF COEFFICIENT   =       0.98         0.22           0.31

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
              YOU SHOULD CONSIDER SPLITTING THE AREA.

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0203)|   Area    (ha)=   0.05
|ID= 1 DT= 5.0 min |   Total Imp(%)=  27.00   Dir. Conn.(%)=  27.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.01         0.04
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      18.90        40.00
     Mannings n           =      0.013        0.250

         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    0.00 | 1.167    7.00 | 2.250   18.00 |  3.33    5.10
              0.167    0.00 | 1.250    8.30 | 2.333   18.00 |  3.42    4.60
              0.250    4.10 | 1.333    8.30 | 2.417   12.00 |  3.50    4.60
              0.333    4.10 | 1.417   10.00 | 2.500   12.00 |  3.58    4.20
              0.417    4.40 | 1.500   10.00 | 2.583    9.20 |  3.67    4.20
              0.500    4.40 | 1.583   14.00 | 2.667    9.20 |  3.75    3.90
              0.583    4.80 | 1.667   14.00 | 2.750    7.60 |  3.83    3.90
              0.667    4.80 | 1.750   24.00 | 2.833    7.60 |  3.92    3.80
              0.750    5.40 | 1.833   24.00 | 2.917    6.50 |  4.00    3.80
              0.833    5.40 | 1.917  160.00 | 3.000    6.50 |  4.08    3.60
              0.917    6.10 | 2.000  160.00 | 3.083    5.70 |  4.17    3.60
              1.000    6.10 | 2.083   40.00 | 3.167    5.70 |
              1.083    7.00 | 2.167   40.00 | 3.250    5.10 |

     Max.Eff.Inten.(mm/hr)=     160.00        27.12
               over (min)        5.00        15.00
     Storage Coeff.  (min)=       0.78 (ii)   12.67 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=       0.34         0.08
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.01         0.00          0.007 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.17           2.00
     RUNOFF VOLUME    (mm)=      61.05        13.94          26.50
     TOTAL RAINFALL   (mm)=      62.05        62.05          62.05
     RUNOFF COEFFICIENT   =       0.98         0.22           0.43

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0202):     0.10   0.007     2.00    19.03
     + ID2= 2 (  0203):     0.05   0.007     2.00    26.50
       ================================================
       ID = 3 (  0003):     0.15   0.014     2.00    21.66

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   3 +  2 =  1    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
*** W A R N I N G :  HYDROGRAPH   0034 <ID= 2> IS DRY.
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*** W A R N I N G :  HYDROGRAPH   0001 = HYDROGRAPH 0003
       ID1= 3 (  0003):     0.15   0.014     2.00    21.66
     + ID2= 2 (  0034):     0.00   0.000     0.00     0.00
       ================================================
       ID = 1 (  0003):     0.15   0.014     2.00    21.66

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0003):     0.15   0.014     2.00    21.66
     + ID2= 2 (  0035):     2.85   0.439     2.07    43.28
       ================================================
       ID = 3 (  0003):     3.00   0.449     2.05    42.19

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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**********************************************
** SIMULATION:2.4 50Y4H Chicago Design Storm **
**********************************************

--------------------
|    READ STORM    |    Filename: C:\Users\CAAS077425\AppD
|                  |              ata\Local\Temp\
|                  |              928a9435-1a45-4733-a537-3482c3d30588\7bc680b6
| Ptotal= 72.18 mm |    Comments: 50Y4H Chicago Design Storm
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
                0.00    0.00 |  1.17    9.20 |  2.33   14.00 |  3.50    4.50
                0.17    4.30 |  1.33   12.00 |  2.50   10.00 |  3.67    4.10
                0.33    4.70 |  1.50   16.00 |  2.67    8.30 |  3.83    3.90
                0.50    5.10 |  1.67   29.00 |  2.83    7.00 |  4.00    3.80
                0.67    5.70 |  1.83  190.00 |  3.00    6.10 |
                0.83    6.50 |  2.00   50.00 |  3.17    5.40 |
                1.00    7.60 |  2.17   21.00 |  3.33    4.90 |

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| CALIB            |
| STANDHYD (  2011)|   Area    (ha)=   1.84
|ID= 1 DT= 5.0 min |   Total Imp(%)=  77.00   Dir. Conn.(%)=  77.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       1.42         0.42
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope    (%)=       1.00         2.00
     Length           (m)=     110.72        40.00
     Mannings n         =      0.013        0.250

         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   0.00 | 1.167    7.60 | 2.250   21.00 |  3.33    5.40
                0.167   0.00 | 1.250    9.20 | 2.333   21.00 |  3.42    4.90
                0.250   4.30 | 1.333    9.20 | 2.417   14.00 |  3.50    4.90
                0.333   4.30 | 1.417   12.00 | 2.500   14.00 |  3.58    4.50
                0.417   4.70 | 1.500   12.00 | 2.583   10.00 |  3.67    4.50
                0.500   4.70 | 1.583   16.00 | 2.667   10.00 |  3.75    4.10
                0.583   5.10 | 1.667   16.00 | 2.750    8.30 |  3.83    4.10
                0.667   5.10 | 1.750   29.00 | 2.833    8.30 |  3.92    3.90
                0.750   5.70 | 1.833   29.00 | 2.917    7.00 |  4.00    3.90
                0.833   5.70 | 1.917  190.00 | 3.000    7.00 |  4.08    3.80
                0.917   6.50 | 2.000  190.00 | 3.083    6.10 |  4.17    3.80
                1.000   6.50 | 2.083   50.00 | 3.167    6.10 |
                1.083   7.60 | 2.167   50.00 | 3.250    5.40 |

     Max.Eff.Inten.(mm/hr)=     190.00        46.93
               over (min)         5.00        10.00
     Storage Coeff.  (min)=       2.10 (ii)    5.47 (ii)
     Unit Hyd. Tpeak (min)=       5.00        10.00
     Unit Hyd. peak  (cms)=       0.31         0.16
                                                          *TOTALS*
     PEAK FLOW       (cms)=       0.74         0.04          0.778 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.08          2.00
     RUNOFF VOLUME    (mm)=      71.18        18.52         59.07
     TOTAL RAINFALL   (mm)=      72.18        72.18         72.18
     RUNOFF COEFFICIENT   =       0.99         0.26          0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB            |
| STANDHYD (  2012)|   Area    (ha)=   0.23
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.23	0.00
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.50	2.00
Length	(m)=	67.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	7.60	2.117	50.00	3.17	6.10
0.033	0.00	1.083	7.60	2.133	50.00	3.18	5.40
0.050	0.00	1.100	7.60	2.150	50.00	3.20	5.40
0.067	0.00	1.117	7.60	2.167	50.00	3.22	5.40
0.083	0.00	1.133	7.60	2.183	21.00	3.23	5.40
0.100	0.00	1.150	7.60	2.200	21.00	3.25	5.40
0.117	0.00	1.167	7.60	2.217	21.00	3.27	5.40
0.133	0.00	1.183	9.20	2.233	21.00	3.28	5.40
0.150	0.00	1.200	9.20	2.250	21.00	3.30	5.40
0.167	0.00	1.217	9.20	2.267	21.00	3.32	5.40
0.183	4.30	1.233	9.20	2.283	21.00	3.33	5.40
0.200	4.30	1.250	9.20	2.300	21.00	3.35	4.90
0.217	4.30	1.267	9.20	2.317	21.00	3.37	4.90
0.233	4.30	1.283	9.20	2.333	21.00	3.38	4.90
0.250	4.30	1.300	9.20	2.350	14.00	3.40	4.90
0.267	4.30	1.317	9.20	2.367	14.00	3.42	4.90
0.283	4.30	1.333	9.20	2.383	14.00	3.43	4.90
0.300	4.30	1.350	12.00	2.400	14.00	3.45	4.90
0.317	4.30	1.367	12.00	2.417	14.00	3.47	4.90
0.333	4.30	1.383	12.00	2.433	14.00	3.48	4.90
0.350	4.70	1.400	12.00	2.450	14.00	3.50	4.90
0.367	4.70	1.417	12.00	2.467	14.00	3.52	4.50
0.383	4.70	1.433	12.00	2.483	14.00	3.53	4.50
0.400	4.70	1.450	12.00	2.500	14.00	3.55	4.50
0.417	4.70	1.467	12.00	2.517	10.00	3.57	4.50
0.433	4.70	1.483	12.00	2.533	10.00	3.58	4.50
0.450	4.70	1.500	12.00	2.550	10.00	3.60	4.50
0.467	4.70	1.517	16.00	2.567	10.00	3.62	4.50
0.483	4.70	1.533	16.00	2.583	10.00	3.63	4.50
0.500	4.70	1.550	16.00	2.600	10.00	3.65	4.50
0.517	5.10	1.567	16.00	2.617	10.00	3.67	4.50
0.533	5.10	1.583	16.00	2.633	10.00	3.68	4.10
0.550	5.10	1.600	16.00	2.650	10.00	3.70	4.10
0.567	5.10	1.617	16.00	2.667	10.00	3.72	4.10
0.583	5.10	1.633	16.00	2.683	8.30	3.73	4.10
0.600	5.10	1.650	16.00	2.700	8.30	3.75	4.10
0.617	5.10	1.667	16.00	2.717	8.30	3.77	4.10
0.633	5.10	1.683	29.00	2.733	8.30	3.78	4.10
0.650	5.10	1.700	29.00	2.750	8.30	3.80	4.10
0.667	5.10	1.717	29.00	2.767	8.30	3.82	4.10
0.683	5.70	1.733	29.00	2.783	8.30	3.83	4.10
0.700	5.70	1.750	29.00	2.800	8.30	3.85	3.90
0.717	5.70	1.767	29.00	2.817	8.30	3.87	3.90
0.733	5.70	1.783	29.00	2.833	8.30	3.88	3.90
0.750	5.70	1.800	29.00	2.850	7.00	3.90	3.90
0.767	5.70	1.817	29.00	2.867	7.00	3.92	3.90
0.783	5.70	1.833	29.00	2.883	7.00	3.93	3.90
0.800	5.70	1.850	189.99	2.900	7.00	3.95	3.90
0.817	5.70	1.867	190.00	2.917	7.00	3.97	3.90
0.833	5.70	1.883	190.00	2.933	7.00	3.98	3.90
0.850	6.50	1.900	190.00	2.950	7.00	4.00	3.90
0.867	6.50	1.917	190.00	2.967	7.00	4.02	3.80
0.883	6.50	1.933	190.00	2.983	7.00	4.03	3.80
0.900	6.50	1.950	190.00	3.000	7.00	4.05	3.80
0.917	6.50	1.967	190.00	3.017	6.10	4.07	3.80
0.933	6.50	1.983	190.00	3.033	6.10	4.08	3.80
0.950	6.50	2.000	190.00	3.050	6.10	4.10	3.80
0.967	6.50	2.017	50.01	3.067	6.10	4.12	3.80
0.983	6.50	2.033	50.00	3.083	6.10	4.13	3.80
1.000	6.50	2.050	50.00	3.100	6.10	4.15	3.80
1.017	7.60	2.067	50.00	3.117	6.10	4.17	3.80
1.033	7.60	2.083	50.00	3.133	6.10		
1.050	7.60	2.100	50.00	3.150	6.10		

Max.Eff.Inten.(mm/hr)=	190.00	46.93		
over (min)	5.00	3.00		
Storage Coeff. (min)=	1.91 (ii)	2.78 (ii)		
Unit Hyd. Tpeak (min)=	5.00	3.00		
Unit Hyd. peak (cms)=	0.38	0.39		
				TOTALS
PEAK FLOW (cms)=	0.12	0.00		0.117 (iii)
TIME TO PEAK (hrs)=	2.00	2.02		2.00
RUNOFF VOLUME (mm)=	71.18	18.52		70.65
TOTAL RAINFALL (mm)=	72.18	72.18		72.18
RUNOFF COEFFICIENT =	0.99	0.26		0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0101)	OVERFLOW IS OFF
IN= 2---> OUT= 1	

DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0380	0.0061
	0.0190	0.0030	0.0570	0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.117	2.00	70.65
OUTFLOW: ID= 1 (0101)	0.229	0.042	2.12	70.48

PEAK FLOW REDUCTION [Qout/Qin](%)= 36.19
TIME SHIFT OF PEAK FLOW (min)= 7.00
MAXIMUM STORAGE USED (ha.m.)= 0.0068

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB
STANDHYD (2014)
ID= 1 DT= 1.0 min

Area (ha)= 0.15
Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.15	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	31.44	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	7.60	2.117	50.00	3.17	6.10
0.033	0.00	1.083	7.60	2.133	50.00	3.18	5.40
0.050	0.00	1.100	7.60	2.150	50.00	3.20	5.40
0.067	0.00	1.117	7.60	2.167	50.00	3.22	5.40
0.083	0.00	1.133	7.60	2.183	21.00	3.23	5.40
0.100	0.00	1.150	7.60	2.200	21.00	3.25	5.40
0.117	0.00	1.167	7.60	2.217	21.00	3.27	5.40
0.133	0.00	1.183	9.20	2.233	21.00	3.28	5.40
0.150	0.00	1.200	9.20	2.250	21.00	3.30	5.40
0.167	0.00	1.217	9.20	2.267	21.00	3.32	5.40
0.183	4.30	1.233	9.20	2.283	21.00	3.33	5.40
0.200	4.30	1.250	9.20	2.300	21.00	3.35	4.90
0.217	4.30	1.267	9.20	2.317	21.00	3.37	4.90
0.233	4.30	1.283	9.20	2.333	21.00	3.38	4.90
0.250	4.30	1.300	9.20	2.350	14.00	3.40	4.90
0.267	4.30	1.317	9.20	2.367	14.00	3.42	4.90
0.283	4.30	1.333	9.20	2.383	14.00	3.43	4.90
0.300	4.30	1.350	12.00	2.400	14.00	3.45	4.90
0.317	4.30	1.367	12.00	2.417	14.00	3.47	4.90
0.333	4.30	1.383	12.00	2.433	14.00	3.48	4.90
0.350	4.70	1.400	12.00	2.450	14.00	3.50	4.90
0.367	4.70	1.417	12.00	2.467	14.00	3.52	4.50
0.383	4.70	1.433	12.00	2.483	14.00	3.53	4.50
0.400	4.70	1.450	12.00	2.500	14.00	3.55	4.50
0.417	4.70	1.467	12.00	2.517	10.00	3.57	4.50
0.433	4.70	1.483	12.00	2.533	10.00	3.58	4.50
0.450	4.70	1.500	12.00	2.550	10.00	3.60	4.50
0.467	4.70	1.517	16.00	2.567	10.00	3.62	4.50
0.483	4.70	1.533	16.00	2.583	10.00	3.63	4.50
0.500	4.70	1.550	16.00	2.600	10.00	3.65	4.50
0.517	5.10	1.567	16.00	2.617	10.00	3.67	4.50
0.533	5.10	1.583	16.00	2.633	10.00	3.68	4.10
0.550	5.10	1.600	16.00	2.650	10.00	3.70	4.10
0.567	5.10	1.617	16.00	2.667	10.00	3.72	4.10
0.583	5.10	1.633	16.00	2.683	8.30	3.73	4.10
0.600	5.10	1.650	16.00	2.700	8.30	3.75	4.10
0.617	5.10	1.667	16.00	2.717	8.30	3.77	4.10
0.633	5.10	1.683	29.00	2.733	8.30	3.78	4.10
0.650	5.10	1.700	29.00	2.750	8.30	3.80	4.10
0.667	5.10	1.717	29.00	2.767	8.30	3.82	4.10
0.683	5.70	1.733	29.00	2.783	8.30	3.83	4.10
0.700	5.70	1.750	29.00	2.800	8.30	3.85	3.90
0.717	5.70	1.767	29.00	2.817	8.30	3.87	3.90
0.733	5.70	1.783	29.00	2.833	8.30	3.88	3.90
0.750	5.70	1.800	29.00	2.850	7.00	3.90	3.90
0.767	5.70	1.817	29.00	2.867	7.00	3.92	3.90
0.783	5.70	1.833	29.00	2.883	7.00	3.93	3.90
0.800	5.70	1.850	189.99	2.900	7.00	3.95	3.90
0.817	5.70	1.867	190.00	2.917	7.00	3.97	3.90
0.833	5.70	1.883	190.00	2.933	7.00	3.98	3.90
0.850	6.50	1.900	190.00	2.950	7.00	4.00	3.90
0.867	6.50	1.917	190.00	2.967	7.00	4.02	3.80
0.883	6.50	1.933	190.00	2.983	7.00	4.03	3.80
0.900	6.50	1.950	190.00	3.000	7.00	4.05	3.80
0.917	6.50	1.967	190.00	3.017	6.10	4.07	3.80
0.933	6.50	1.983	190.00	3.033	6.10	4.08	3.80
0.950	6.50	2.000	190.00	3.050	6.10	4.10	3.80
0.967	6.50	2.017	50.01	3.067	6.10	4.12	3.80
0.983	6.50	2.033	50.00	3.083	6.10	4.13	3.80
1.000	6.50	2.050	50.00	3.100	6.10	4.15	3.80
1.017	7.60	2.067	50.00	3.117	6.10	4.17	3.80
1.033	7.60	2.083	50.00	3.133	6.10		
1.050	7.60	2.100	50.00	3.150	6.10		

Max.Eff.Inten.(mm/hr)=	190.00	120.61	
over (min)	5.00	3.00	

```
     Storage Coeff.  (min)=       1.22 (ii)    2.08 (ii)
     Unit Hyd. Tpeak (min)=       5.00         3.00
     Unit Hyd. peak  (cms)=       0.45         0.47
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.08         0.00          0.078 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.00           2.00
     RUNOFF VOLUME    (mm)=      71.18        43.25          70.90
     TOTAL RAINFALL   (mm)=      72.18        72.18          72.18
     RUNOFF COEFFICIENT   =       0.99         0.60           0.98


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  85.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR(  0103)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0250      0.0040
                          0.0130     0.0020   |   0.0380      0.0059

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2014)      0.148      0.078      2.00      70.90
   OUTFLOW: ID= 1 (  0103)      0.148      0.028      2.10      70.64

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 36.23
                  TIME SHIFT OF PEAK FLOW         (min)=  6.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0045

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
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--------------------
| CALIB            |
| STANDHYD (  2013)|   Area    (ha)=   0.31
|ID= 1 DT= 1.0 min |   Total Imp(%)=  99.00   Dir. Conn.(%)=  99.00
--------------------
                               IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.31         0.00
     Dep. Storage     (mm)=       1.00         1.50
     Average Slope     (%)=       0.50         2.00
     Length            (m)=      65.00        40.00
     Mannings n           =      0.013        0.250

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
```

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	7.60	2.117	50.00	3.17	6.10
0.033	0.00	1.083	7.60	2.133	50.00	3.18	5.40
0.050	0.00	1.100	7.60	2.150	50.00	3.20	5.40
0.067	0.00	1.117	7.60	2.167	50.00	3.22	5.40
0.083	0.00	1.133	7.60	2.183	21.00	3.23	5.40
0.100	0.00	1.150	7.60	2.200	21.00	3.25	5.40
0.117	0.00	1.167	7.60	2.217	21.00	3.27	5.40
0.133	0.00	1.183	9.20	2.233	21.00	3.28	5.40
0.150	0.00	1.200	9.20	2.250	21.00	3.30	5.40
0.167	0.00	1.217	9.20	2.267	21.00	3.32	5.40
0.183	4.30	1.233	9.20	2.283	21.00	3.33	5.40
0.200	4.30	1.250	9.20	2.300	21.00	3.35	4.90
0.217	4.30	1.267	9.20	2.317	21.00	3.37	4.90
0.233	4.30	1.283	9.20	2.333	21.00	3.38	4.90
0.250	4.30	1.300	9.20	2.350	14.00	3.40	4.90
0.267	4.30	1.317	9.20	2.367	14.00	3.42	4.90
0.283	4.30	1.333	9.20	2.383	14.00	3.43	4.90
0.300	4.30	1.350	12.00	2.400	14.00	3.45	4.90
0.317	4.30	1.367	12.00	2.417	14.00	3.47	4.90
0.333	4.30	1.383	12.00	2.433	14.00	3.48	4.90
0.350	4.70	1.400	12.00	2.450	14.00	3.50	4.90
0.367	4.70	1.417	12.00	2.467	14.00	3.52	4.50
0.383	4.70	1.433	12.00	2.483	14.00	3.53	4.50
0.400	4.70	1.450	12.00	2.500	14.00	3.55	4.50
0.417	4.70	1.467	12.00	2.517	10.00	3.57	4.50
0.433	4.70	1.483	12.00	2.533	10.00	3.58	4.50
0.450	4.70	1.500	12.00	2.550	10.00	3.60	4.50
0.467	4.70	1.517	16.00	2.567	10.00	3.62	4.50
0.483	4.70	1.533	16.00	2.583	10.00	3.63	4.50
0.500	4.70	1.550	16.00	2.600	10.00	3.65	4.50
0.517	5.10	1.567	16.00	2.617	10.00	3.67	4.50
0.533	5.10	1.583	16.00	2.633	10.00	3.68	4.10
0.550	5.10	1.600	16.00	2.650	10.00	3.70	4.10
0.567	5.10	1.617	16.00	2.667	10.00	3.72	4.10
0.583	5.10	1.633	16.00	2.683	8.30	3.73	4.10
0.600	5.10	1.650	16.00	2.700	8.30	3.75	4.10
0.617	5.10	1.667	16.00	2.717	8.30	3.77	4.10
0.633	5.10	1.683	29.00	2.733	8.30	3.78	4.10
0.650	5.10	1.700	29.00	2.750	8.30	3.80	4.10
0.667	5.10	1.717	29.00	2.767	8.30	3.82	4.10
0.683	5.70	1.733	29.00	2.783	8.30	3.83	4.10
0.700	5.70	1.750	29.00	2.800	8.30	3.85	3.90
0.717	5.70	1.767	29.00	2.817	8.30	3.87	3.90
0.733	5.70	1.783	29.00	2.833	8.30	3.88	3.90
0.750	5.70	1.800	29.00	2.850	7.00	3.90	3.90

0.767	5.70	1.817	29.00	2.867	7.00	3.92	3.90
0.783	5.70	1.833	29.00	2.883	7.00	3.93	3.90
0.800	5.70	1.850	189.99	2.900	7.00	3.95	3.90
0.817	5.70	1.867	190.00	2.917	7.00	3.97	3.90
0.833	5.70	1.883	190.00	2.933	7.00	3.98	3.90
0.850	6.50	1.900	190.00	2.950	7.00	4.00	3.90
0.867	6.50	1.917	190.00	2.967	7.00	4.02	3.80
0.883	6.50	1.933	190.00	2.983	7.00	4.03	3.80
0.900	6.50	1.950	190.00	3.000	7.00	4.05	3.80
0.917	6.50	1.967	190.00	3.017	6.10	4.07	3.80
0.933	6.50	1.983	190.00	3.033	6.10	4.08	3.80
0.950	6.50	2.000	190.00	3.050	6.10	4.10	3.80
0.967	6.50	2.017	50.01	3.067	6.10	4.12	3.80
0.983	6.50	2.033	50.00	3.083	6.10	4.13	3.80
1.000	6.50	2.050	50.00	3.100	6.10	4.15	3.80
1.017	7.60	2.067	50.00	3.117	6.10	4.17	3.80
1.033	7.60	2.083	50.00	3.133	6.10		
1.050	7.60	2.100	50.00	3.150	6.10		

Max.Eff.Inten.(mm/hr)=	190.00	120.61	
over (min)	5.00	3.00	
Storage Coeff. (min)=	1.88 (ii)	2.75 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.38	0.40	
			TOTALS
PEAK FLOW (cms)=	0.16	0.00	0.160 (iii)
TIME TO PEAK (hrs)=	2.00	2.00	2.00
RUNOFF VOLUME (mm)=	71.18	43.25	70.90
TOTAL RAINFALL (mm)=	72.18	72.18	72.18
RUNOFF COEFFICIENT =	0.99	0.60	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0102) / IN= 2---> OUT= 1 / DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0440	0.0083
	0.0220	0.0041	0.0660	0.0124

OVERFLOW IS OFF

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2013)	0.310	0.160	2.00	70.90

OUTFLOW: ID= 1 (0102)	0.310	0.052	2.13	70.75

PEAK FLOW REDUCTION [Qout/Qin](%)= 32.63
TIME SHIFT OF PEAK FLOW (min)= 8.00
MAXIMUM STORAGE USED (ha.m.)= 0.0098

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

ADD HYD (0001)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0101):	0.23	0.042	2.12	70.48
+ ID2= 2 (0102):	0.31	0.052	2.13	70.75
ID = 3 (0001):	0.54	0.095	2.12	70.64

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0001)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 3 (0001):	0.54	0.095	2.12	70.64
+ ID2= 2 (0103):	0.15	0.028	2.10	70.64
ID = 1 (0001):	0.69	0.123	2.12	70.64

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB
STANDHYD (0204) | Area (ha)= 0.33
ID= 1 DT= 5.0 min | Total Imp(%)= 55.00 Dir. Conn.(%)= 55.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.18	0.15
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	46.60	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr

0.083	0.00	1.167	7.60	2.250	21.00	3.33	5.40
0.167	0.00	1.250	9.20	2.333	21.00	3.42	4.90
0.250	4.30	1.333	9.20	2.417	14.00	3.50	4.90
0.333	4.30	1.417	12.00	2.500	14.00	3.58	4.50
0.417	4.70	1.500	12.00	2.583	10.00	3.67	4.50
0.500	4.70	1.583	16.00	2.667	10.00	3.75	4.10
0.583	5.10	1.667	16.00	2.750	8.30	3.83	4.10
0.667	5.10	1.750	29.00	2.833	8.30	3.92	3.90
0.750	5.70	1.833	29.00	2.917	7.00	4.00	3.90
0.833	5.70	1.917	190.00	3.000	7.00	4.08	3.80
0.917	6.50	2.000	190.00	3.083	6.10	4.17	3.80
1.000	6.50	2.083	50.00	3.167	6.10		
1.083	7.60	2.167	50.00	3.250	5.40		

Max.Eff.Inten.(mm/hr)=	190.00	46.93	
over (min)	5.00	15.00	
Storage Coeff. (min)=	1.25 (ii)	10.80 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.33	0.09	
			TOTALS
PEAK FLOW (cms)=	0.09	0.01	0.100 (iii)
TIME TO PEAK (hrs)=	2.00	2.17	2.00
RUNOFF VOLUME (mm)=	71.18	18.52	47.46
TOTAL RAINFALL (mm)=	72.18	72.18	72.18
RUNOFF COEFFICIENT =	0.99	0.26	0.66

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0002)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0001):		0.69	0.123	2.12	70.64
+ ID2= 2 (2011):		1.84	0.778	2.00	59.07
ID = 3 (0002):		2.53	0.867	2.00	62.22

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

ADD HYD (0002)		AREA	QPEAK	TPEAK	R.V.
3 + 2 = 1		(ha)	(cms)	(hrs)	(mm)
ID1= 3 (0002):		2.53	0.867	2.00	62.22
+ ID2= 2 (0204):		0.33	0.100	2.00	47.46
ID = 1 (0002):		2.85	0.967	2.00	60.53

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CHAMBER(0025)	OUTFLOW: ON, UNDERDRAIN: OFF, INFIL: OFF
IN= 2--> OUT= 3	CHAMBER:
DT= 5.0 min	MAX STO VOL (cu.m.)= 710.04 Bottom Area(m2) = 614.46

DEPTH (mm)	STORAGE (cu.m.)	DEPTH (mm)	STORAGE (cu.m.)
0.00	0.00	864.00	430.26
25.00	13.40	889.00	441.69
51.00	26.76	914.00	453.02
76.00	40.09	940.00	464.23
102.00	53.40	965.00	475.34
127.00	66.68	991.00	486.32
152.00	79.92	1016.00	497.18
178.00	93.14	1041.00	507.92
203.00	106.32	1067.00	518.52
229.00	119.46	1092.00	528.98
254.00	132.57	1118.00	539.29
279.00	145.64	1143.00	549.44
305.00	158.66	1168.00	559.43
330.00	171.65	1194.00	569.25
356.00	184.58	1219.00	578.88
381.00	197.47	1245.00	588.32
406.00	210.31	1270.00	597.54
432.00	223.09	1295.00	606.52
457.00	235.83	1321.00	615.24
483.00	248.51	1346.00	623.67
508.00	261.13	1372.00	631.72
533.00	273.68	1397.00	639.20
559.00	286.18	1422.00	646.18
584.00	298.61	1448.00	653.00
610.00	310.97	1473.00	659.69
635.00	323.26	1499.00	666.24
660.00	335.48	1524.00	672.59
686.00	347.62	1549.00	678.83
711.00	359.68	1575.00	685.08
737.00	371.67	1600.00	691.32
762.00	383.57	1626.00	697.56
787.00	395.38	1651.00	703.80
813.00	407.10	1676.00	710.04
838.00	418.73	0.00	0.00

DEPTH (m)	DISCHARGE (cms)	DEPTH (m)	DISCHARGE (cms)
0.000	0.000	1.255	0.504
0.455	0.000	1.355	0.535
0.555	0.178	1.455	0.564
0.655	0.252	1.555	0.591
0.755	0.309	1.655	0.617
0.855	0.356	1.755	0.643
0.955	0.399	1.855	0.667
1.055	0.437	1.955	0.690
1.155	0.472	2.055	0.713

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW:ID= 2	2.85	0.967	2.00	60.53
OUTFLOW:ID= 1	2.85	0.507	2.07	52.29
OVERFLOW:ID= 3	0.00	0.000	0.00	0.00

Volume Reduction Rate[(RVin-RVout)/RVin](%)= 13.60
Time to reach Max storage (Hr)= 2.07
Volume of water for drawdown in LID (cu.m.)= 234.86
Volume of maximum water storage (cu.m.)= 565.29
***** After simulation, water volume is not zero.

Junction Command(0034)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 3(0025)	0.00	0.00	0.00	0.00
OUTFLOW: ID= 2(0034)	0.00	0.00	0.00	0.00

Junction Command(0035)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 1(0025)	2.85	0.51	2.07	52.29
OUTFLOW: ID= 2(0035)	2.85	0.51	2.07	52.29

CALIB STANDHYD (0202) ID= 1 DT= 5.0 min	Area (ha)= 0.10 Total Imp(%)= 11.00 Dir. Conn.(%)= 11.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.01	0.09
Dep. Storage (mm)=	1.00	5.00
Average Slope (%)=	1.00	2.00
Length (m)=	25.66	40.00
Mannings n =	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	1.167	7.60	2.250	21.00	3.33	5.40
0.167	0.00	1.250	9.20	2.333	21.00	3.42	4.90
0.250	4.30	1.333	9.20	2.417	14.00	3.50	4.90
0.333	4.30	1.417	12.00	2.500	14.00	3.58	4.50
0.417	4.70	1.500	12.00	2.583	10.00	3.67	4.50
0.500	4.70	1.583	16.00	2.667	10.00	3.75	4.10
0.583	5.10	1.667	16.00	2.750	8.30	3.83	4.10
0.667	5.10	1.750	29.00	2.833	8.30	3.92	3.90
0.750	5.70	1.833	29.00	2.917	7.00	4.00	3.90
0.833	5.70	1.917	190.00	3.000	7.00	4.08	3.80
0.917	6.50	2.000	190.00	3.083	6.10	4.17	3.80
1.000	6.50	2.083	50.00	3.167	6.10		
1.083	7.60	2.167	50.00	3.250	5.40		

			TOTALS
Max.Eff.Inten.(mm/hr)=	190.00	46.93	
over (min)	5.00	15.00	
Storage Coeff. (min)=	0.87 (ii)	10.43 (ii)	
Unit Hyd. Tpeak (min)=	5.00	15.00	
Unit Hyd. peak (cms)=	0.34	0.09	
PEAK FLOW (cms)=	0.01	0.01	0.009 (iii)
TIME TO PEAK (hrs)=	2.00	2.17	2.00
RUNOFF VOLUME (mm)=	71.18	18.52	24.25
TOTAL RAINFALL (mm)=	72.18	72.18	72.18
RUNOFF COEFFICIENT =	0.99	0.26	0.34

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
YOU SHOULD CONSIDER SPLITTING THE AREA.

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB            |
| STANDHYD (  0203)|   Area    (ha)=   0.05
|ID= 1 DT= 5.0 min |   Total Imp(%)=  27.00   Dir. Conn.(%)=  27.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.01         0.04
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      18.90        40.00
     Mannings n           =      0.013        0.250

         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    0.00 | 1.167    7.60 | 2.250   21.00 |  3.33    5.40
              0.167    0.00 | 1.250    9.20 | 2.333   21.00 |  3.42    4.90
              0.250    4.30 | 1.333    9.20 | 2.417   14.00 |  3.50    4.90
              0.333    4.30 | 1.417   12.00 | 2.500   14.00 |  3.58    4.50
              0.417    4.70 | 1.500   12.00 | 2.583   10.00 |  3.67    4.50
              0.500    4.70 | 1.583   16.00 | 2.667   10.00 |  3.75    4.10
              0.583    5.10 | 1.667   16.00 | 2.750    8.30 |  3.83    4.10
              0.667    5.10 | 1.750   29.00 | 2.833    8.30 |  3.92    3.90
              0.750    5.70 | 1.833   29.00 | 2.917    7.00 |  4.00    3.90
              0.833    5.70 | 1.917  190.00 | 3.000    7.00 |  4.08    3.80
              0.917    6.50 | 2.000  190.00 | 3.083    6.10 |  4.17    3.80
              1.000    6.50 | 2.083   50.00 | 3.167    6.10 |
              1.083    7.60 | 2.167   50.00 | 3.250    5.40 |

     Max.Eff.Inten.(mm/hr)=     190.00        46.93
               over (min)         5.00        15.00
     Storage Coeff.  (min)=       0.73 (ii)   10.28 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=       0.34         0.09
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.01         0.00          0.009 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.17           2.00
     RUNOFF VOLUME    (mm)=      71.18        18.52          32.61
     TOTAL RAINFALL   (mm)=      72.18        72.18          72.18
     RUNOFF COEFFICIENT   =       0.99         0.26           0.45

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0202):     0.10   0.009     2.00    24.25
     + ID2= 2 (  0203):     0.05   0.009     2.00    32.61
       ================================================
       ID = 3 (  0003):     0.15   0.018     2.00    27.19

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| ADD HYD  (  0003)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
*** W A R N I N G :  HYDROGRAPH   0034 <ID= 2> IS DRY.
*** W A R N I N G :  HYDROGRAPH   0001 = HYDROGRAPH 0003
       ID1= 3 (  0003):     0.15   0.018     2.00    27.19
     + ID2= 2 (  0034):     0.00   0.000     0.00     0.00
       ================================================
       ID = 1 (  0003):     0.15   0.018     2.00    27.19

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0003):     0.15   0.018     2.00    27.19
     + ID2= 2 (  0035):     2.85   0.507     2.07    52.29
       ================================================
       ID = 3 (  0003):     3.00   0.520     2.07    51.03

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
**********************************************
** SIMULATION:2.5 100Y4H Chicago Design Storm **
**********************************************

--------------------
|    READ STORM    |    Filename: C:\Users\CAAS077425\AppD
|                  |              ata\Local\Temp\
|                  |              928a9435-1a45-4733-a537-3482c3d30588\6558e376
```

| Ptotal= 78.00 mm | Comments: 100Y4H Chicago Design Storm

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.00	0.00	1.17	9.70	2.33	15.00	3.50	4.50
0.17	4.30	1.33	13.00	2.50	11.00	3.67	4.20
0.33	4.70	1.50	18.00	2.67	8.70	3.83	4.00
0.50	5.30	1.67	33.00	2.83	7.30	4.00	3.80
0.67	5.90	1.83	203.00	3.00	6.30		
0.83	6.80	2.00	58.00	3.17	5.60		
1.00	7.90	2.17	23.00	3.33	5.00		

CALIB
STANDHYD (2011)
ID= 1 DT= 5.0 min

Area (ha)= 1.84
Total Imp(%)= 77.00 Dir. Conn.(%)= 77.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	1.42	0.42
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	1.00	2.00
Length	(m)=	110.72	40.00
Mannings n	=	0.013	0.250

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

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.083	0.00	1.167	7.90	2.250	23.00	3.33	5.60
0.167	0.00	1.250	9.70	2.333	23.00	3.42	5.00
0.250	4.30	1.333	9.70	2.417	15.00	3.50	5.00
0.333	4.30	1.417	13.00	2.500	15.00	3.58	4.50
0.417	4.70	1.500	13.00	2.583	11.00	3.67	4.50
0.500	4.70	1.583	18.00	2.667	11.00	3.75	4.20
0.583	5.30	1.667	18.00	2.750	8.70	3.83	4.20
0.667	5.30	1.750	33.00	2.833	8.70	3.92	4.00
0.750	5.90	1.833	33.00	2.917	7.30	4.00	4.00
0.833	5.90	1.917	203.00	3.000	7.30	4.08	3.80
0.917	6.80	2.000	203.00	3.083	6.30	4.17	3.80
1.000	6.80	2.083	58.00	3.167	6.30		
1.083	7.90	2.167	58.00	3.250	5.60		

Max.Eff.Inten.(mm/hr)=		203.00	53.72
over (min)		5.00	10.00
Storage Coeff. (min)=		2.05 (ii)	5.33 (ii)
Unit Hyd. Tpeak (min)=		5.00	10.00
Unit Hyd. peak (cms)=		0.31	0.16
			TOTALS
PEAK FLOW	(cms)=	0.79	0.05 0.835 (iii)
TIME TO PEAK	(hrs)=	2.00	2.08 2.00
RUNOFF VOLUME	(mm)=	77.00	21.36 64.20
TOTAL RAINFALL	(mm)=	78.00	78.00 78.00
RUNOFF COEFFICIENT	=	0.99	0.27 0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (2012)
ID= 1 DT= 1.0 min

Area (ha)= 0.23
Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.23	0.00
Dep. Storage	(mm)=	1.00	5.00
Average Slope	(%)=	0.50	2.00
Length	(m)=	67.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	7.90	2.117	58.00	3.17	6.30
0.033	0.00	1.083	7.90	2.133	58.00	3.18	5.60
0.050	0.00	1.100	7.90	2.150	58.00	3.20	5.60
0.067	0.00	1.117	7.90	2.167	58.00	3.22	5.60
0.083	0.00	1.133	7.90	2.183	23.00	3.23	5.60
0.100	0.00	1.150	7.90	2.200	23.00	3.25	5.60
0.117	0.00	1.167	7.90	2.217	23.00	3.27	5.60
0.133	0.00	1.183	9.70	2.233	23.00	3.28	5.60
0.150	0.00	1.200	9.70	2.250	23.00	3.30	5.60
0.167	0.00	1.217	9.70	2.267	23.00	3.32	5.60
0.183	4.30	1.233	9.70	2.283	23.00	3.33	5.60
0.200	4.30	1.250	9.70	2.300	23.00	3.35	5.00
0.217	4.30	1.267	9.70	2.317	23.00	3.37	5.00
0.233	4.30	1.283	9.70	2.333	23.00	3.38	5.00
0.250	4.30	1.300	9.70	2.350	15.00	3.40	5.00

0.267	4.30	1.317	9.70	2.367	15.00	3.42	5.00
0.283	4.30	1.333	9.70	2.383	15.00	3.43	5.00
0.300	4.30	1.350	13.00	2.400	15.00	3.45	5.00
0.317	4.30	1.367	13.00	2.417	15.00	3.47	5.00
0.333	4.30	1.383	13.00	2.433	15.00	3.48	5.00
0.350	4.70	1.400	13.00	2.450	15.00	3.50	5.00
0.367	4.70	1.417	13.00	2.467	15.00	3.52	4.50
0.383	4.70	1.433	13.00	2.483	15.00	3.53	4.50
0.400	4.70	1.450	13.00	2.500	15.00	3.55	4.50
0.417	4.70	1.467	13.00	2.517	11.00	3.57	4.50
0.433	4.70	1.483	13.00	2.533	11.00	3.58	4.50
0.450	4.70	1.500	13.00	2.550	11.00	3.60	4.50
0.467	4.70	1.517	18.00	2.567	11.00	3.62	4.50
0.483	4.70	1.533	18.00	2.583	11.00	3.63	4.50
0.500	4.70	1.550	18.00	2.600	11.00	3.65	4.50
0.517	5.30	1.567	18.00	2.617	11.00	3.67	4.50
0.533	5.30	1.583	18.00	2.633	11.00	3.68	4.20
0.550	5.30	1.600	18.00	2.650	11.00	3.70	4.20
0.567	5.30	1.617	18.00	2.667	11.00	3.72	4.20
0.583	5.30	1.633	18.00	2.683	8.70	3.73	4.20
0.600	5.30	1.650	18.00	2.700	8.70	3.75	4.20
0.617	5.30	1.667	18.00	2.717	8.70	3.77	4.20
0.633	5.30	1.683	33.00	2.733	8.70	3.78	4.20
0.650	5.30	1.700	33.00	2.750	8.70	3.80	4.20
0.667	5.30	1.717	33.00	2.767	8.70	3.82	4.20
0.683	5.90	1.733	33.00	2.783	8.70	3.83	4.20
0.700	5.90	1.750	33.00	2.800	8.70	3.85	4.00
0.717	5.90	1.767	33.00	2.817	8.70	3.87	4.00
0.733	5.90	1.783	33.00	2.833	8.70	3.88	4.00
0.750	5.90	1.800	33.00	2.850	7.30	3.90	4.00
0.767	5.90	1.817	33.00	2.867	7.30	3.92	4.00
0.783	5.90	1.833	33.00	2.883	7.30	3.93	4.00
0.800	5.90	1.850	202.99	2.900	7.30	3.95	4.00
0.817	5.90	1.867	203.00	2.917	7.30	3.97	4.00
0.833	5.90	1.883	203.00	2.933	7.30	3.98	4.00
0.850	6.80	1.900	203.00	2.950	7.30	4.00	4.00
0.867	6.80	1.917	203.00	2.967	7.30	4.02	3.80
0.883	6.80	1.933	203.00	2.983	7.30	4.03	3.80
0.900	6.80	1.950	203.00	3.000	7.30	4.05	3.80
0.917	6.80	1.967	203.00	3.017	6.30	4.07	3.80
0.933	6.80	1.983	203.00	3.033	6.30	4.08	3.80
0.950	6.80	2.000	203.00	3.050	6.30	4.10	3.80
0.967	6.80	2.017	58.01	3.067	6.30	4.12	3.80
0.983	6.80	2.033	58.00	3.083	6.30	4.13	3.80
1.000	6.80	2.050	58.00	3.100	6.30	4.15	3.80
1.017	7.90	2.067	58.00	3.117	6.30	4.17	3.80
1.033	7.90	2.083	58.00	3.133	6.30		
1.050	7.90	2.100	58.00	3.150	6.30		

Max.Eff.Inten.(mm/hr)= 203.00 53.72

over (min) 5.00 3.00
Storage Coeff. (min)= 1.86 (ii) 2.71 (ii)
Unit Hyd. Tpeak (min)= 5.00 3.00
Unit Hyd. peak (cms)= 0.39 0.40

TOTALS
PEAK FLOW (cms)= 0.13 0.00 0.126 (iii)
TIME TO PEAK (hrs)= 2.00 2.02 2.00
RUNOFF VOLUME (mm)= 77.00 21.36 76.44
TOTAL RAINFALL (mm)= 78.00 78.00 78.00
RUNOFF COEFFICIENT = 0.99 0.27 0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 59.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0101)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0380	0.0061
	0.0190	0.0030	0.0570	0.0091

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (2012)	0.229	0.126	2.00	76.44
OUTFLOW: ID= 1 (0101)	0.229	0.046	2.12	76.27

PEAK FLOW REDUCTION [Qout/Qin](%)= 36.67
TIME SHIFT OF PEAK FLOW (min)= 7.00
MAXIMUM STORAGE USED (ha.m.)= 0.0074

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB		
STANDHYD (2014)	Area (ha)= 0.15	
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00	Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.15	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	31.44	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	7.90	2.117	58.00	3.17	6.30
0.033	0.00	1.083	7.90	2.133	58.00	3.18	5.60
0.050	0.00	1.100	7.90	2.150	58.00	3.20	5.60
0.067	0.00	1.117	7.90	2.167	58.00	3.22	5.60
0.083	0.00	1.133	7.90	2.183	23.00	3.23	5.60
0.100	0.00	1.150	7.90	2.200	23.00	3.25	5.60
0.117	0.00	1.167	7.90	2.217	23.00	3.27	5.60
0.133	0.00	1.183	9.70	2.233	23.00	3.28	5.60
0.150	0.00	1.200	9.70	2.250	23.00	3.30	5.60
0.167	0.00	1.217	9.70	2.267	23.00	3.32	5.60
0.183	4.30	1.233	9.70	2.283	23.00	3.33	5.60
0.200	4.30	1.250	9.70	2.300	23.00	3.35	5.00
0.217	4.30	1.267	9.70	2.317	23.00	3.37	5.00
0.233	4.30	1.283	9.70	2.333	23.00	3.38	5.00
0.250	4.30	1.300	9.70	2.350	15.00	3.40	5.00
0.267	4.30	1.317	9.70	2.367	15.00	3.42	5.00
0.283	4.30	1.333	9.70	2.383	15.00	3.43	5.00
0.300	4.30	1.350	13.00	2.400	15.00	3.45	5.00
0.317	4.30	1.367	13.00	2.417	15.00	3.47	5.00
0.333	4.30	1.383	13.00	2.433	15.00	3.48	5.00
0.350	4.70	1.400	13.00	2.450	15.00	3.50	5.00
0.367	4.70	1.417	13.00	2.467	15.00	3.52	4.50
0.383	4.70	1.433	13.00	2.483	15.00	3.53	4.50
0.400	4.70	1.450	13.00	2.500	15.00	3.55	4.50
0.417	4.70	1.467	13.00	2.517	11.00	3.57	4.50
0.433	4.70	1.483	13.00	2.533	11.00	3.58	4.50
0.450	4.70	1.500	13.00	2.550	11.00	3.60	4.50
0.467	4.70	1.517	18.00	2.567	11.00	3.62	4.50
0.483	4.70	1.533	18.00	2.583	11.00	3.63	4.50
0.500	4.70	1.550	18.00	2.600	11.00	3.65	4.50
0.517	5.30	1.567	18.00	2.617	11.00	3.67	4.50
0.533	5.30	1.583	18.00	2.633	11.00	3.68	4.20
0.550	5.30	1.600	18.00	2.650	11.00	3.70	4.20
0.567	5.30	1.617	18.00	2.667	11.00	3.72	4.20
0.583	5.30	1.633	18.00	2.683	8.70	3.73	4.20
0.600	5.30	1.650	18.00	2.700	8.70	3.75	4.20
0.617	5.30	1.667	18.00	2.717	8.70	3.77	4.20
0.633	5.30	1.683	33.00	2.733	8.70	3.78	4.20
0.650	5.30	1.700	33.00	2.750	8.70	3.80	4.20
0.667	5.30	1.717	33.00	2.767	8.70	3.82	4.20
0.683	5.90	1.733	33.00	2.783	8.70	3.83	4.20
0.700	5.90	1.750	33.00	2.800	8.70	3.85	4.00
0.717	5.90	1.767	33.00	2.817	8.70	3.87	4.00
0.733	5.90	1.783	33.00	2.833	8.70	3.88	4.00
0.750	5.90	1.800	33.00	2.850	7.30	3.90	4.00
0.767	5.90	1.817	33.00	2.867	7.30	3.92	4.00
0.783	5.90	1.833	33.00	2.883	7.30	3.93	4.00
0.800	5.90	1.850	202.99	2.900	7.30	3.95	4.00
0.817	5.90	1.867	203.00	2.917	7.30	3.97	4.00
0.833	5.90	1.883	203.00	2.933	7.30	3.98	4.00
0.850	6.80	1.900	203.00	2.950	7.30	4.00	4.00
0.867	6.80	1.917	203.00	2.967	7.30	4.02	3.80
0.883	6.80	1.933	203.00	2.983	7.30	4.03	3.80
0.900	6.80	1.950	203.00	3.000	7.30	4.05	3.80
0.917	6.80	1.967	203.00	3.017	6.30	4.07	3.80
0.933	6.80	1.983	203.00	3.033	6.30	4.08	3.80
0.950	6.80	2.000	203.00	3.050	6.30	4.10	3.80
0.967	6.80	2.017	58.01	3.067	6.30	4.12	3.80
0.983	6.80	2.033	58.00	3.083	6.30	4.13	3.80
1.000	6.80	2.050	58.00	3.100	6.30	4.15	3.80
1.017	7.90	2.067	58.00	3.117	6.30	4.17	3.80
1.033	7.90	2.083	58.00	3.133	6.30		
1.050	7.90	2.100	58.00	3.150	6.30		

			TOTALS
Max.Eff.Inten.(mm/hr)=	203.00	133.29	
over (min)	5.00	3.00	
Storage Coeff. (min)=	1.18 (ii)	2.03 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.45	0.48	
PEAK FLOW (cms)=	0.08	0.00	0.083 (iii)
TIME TO PEAK (hrs)=	2.00	2.00	2.00
RUNOFF VOLUME (mm)=	77.00	48.24	76.71
TOTAL RAINFALL (mm)=	78.00	78.00	78.00
RUNOFF COEFFICIENT =	0.99	0.62	0.98

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 85.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0103)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 5.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0250	0.0040
	0.0130	0.0020	0.0380	0.0059

AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)

INFLOW : ID= 2 (2014) 0.148 0.083 2.00 76.71
OUTFLOW: ID= 1 (0103) 0.148 0.031 2.10 76.45

PEAK FLOW REDUCTION [Qout/Qin](%)= 36.88
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0048

**** WARNING : SELECTED ROUTING TIME STEP DENIED.

CALIB	
STANDHYD (2013)	Area (ha)= 0.31
ID= 1 DT= 1.0 min	Total Imp(%)= 99.00 Dir. Conn.(%)= 99.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.31	0.00
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	0.50	2.00
Length	(m)=	65.00	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.067	7.90	2.117	58.00	3.17	6.30
0.033	0.00	1.083	7.90	2.133	58.00	3.18	5.60
0.050	0.00	1.100	7.90	2.150	58.00	3.20	5.60
0.067	0.00	1.117	7.90	2.167	58.00	3.22	5.60
0.083	0.00	1.133	7.90	2.183	23.00	3.23	5.60
0.100	0.00	1.150	7.90	2.200	23.00	3.25	5.60
0.117	0.00	1.167	7.90	2.217	23.00	3.27	5.60
0.133	0.00	1.183	9.70	2.233	23.00	3.28	5.60
0.150	0.00	1.200	9.70	2.250	23.00	3.30	5.60
0.167	0.00	1.217	9.70	2.267	23.00	3.32	5.60
0.183	4.30	1.233	9.70	2.283	23.00	3.33	5.60
0.200	4.30	1.250	9.70	2.300	23.00	3.35	5.00
0.217	4.30	1.267	9.70	2.317	23.00	3.37	5.00
0.233	4.30	1.283	9.70	2.333	23.00	3.38	5.00
0.250	4.30	1.300	9.70	2.350	15.00	3.40	5.00
0.267	4.30	1.317	9.70	2.367	15.00	3.42	5.00
0.283	4.30	1.333	9.70	2.383	15.00	3.43	5.00
0.300	4.30	1.350	13.00	2.400	15.00	3.45	5.00
0.317	4.30	1.367	13.00	2.417	15.00	3.47	5.00
0.333	4.30	1.383	13.00	2.433	15.00	3.48	5.00
0.350	4.70	1.400	13.00	2.450	15.00	3.50	5.00
0.367	4.70	1.417	13.00	2.467	15.00	3.52	4.50
0.383	4.70	1.433	13.00	2.483	15.00	3.53	4.50
0.400	4.70	1.450	13.00	2.500	15.00	3.55	4.50
0.417	4.70	1.467	13.00	2.517	11.00	3.57	4.50
0.433	4.70	1.483	13.00	2.533	11.00	3.58	4.50
0.450	4.70	1.500	13.00	2.550	11.00	3.60	4.50
0.467	4.70	1.517	18.00	2.567	11.00	3.62	4.50
0.483	4.70	1.533	18.00	2.583	11.00	3.63	4.50
0.500	4.70	1.550	18.00	2.600	11.00	3.65	4.50
0.517	5.30	1.567	18.00	2.617	11.00	3.67	4.50
0.533	5.30	1.583	18.00	2.633	11.00	3.68	4.20
0.550	5.30	1.600	18.00	2.650	11.00	3.70	4.20
0.567	5.30	1.617	18.00	2.667	11.00	3.72	4.20
0.583	5.30	1.633	18.00	2.683	8.70	3.73	4.20
0.600	5.30	1.650	18.00	2.700	8.70	3.75	4.20
0.617	5.30	1.667	18.00	2.717	8.70	3.77	4.20
0.633	5.30	1.683	33.00	2.733	8.70	3.78	4.20
0.650	5.30	1.700	33.00	2.750	8.70	3.80	4.20
0.667	5.30	1.717	33.00	2.767	8.70	3.82	4.20
0.683	5.90	1.733	33.00	2.783	8.70	3.83	4.20
0.700	5.90	1.750	33.00	2.800	8.70	3.85	4.00
0.717	5.90	1.767	33.00	2.817	8.70	3.87	4.00
0.733	5.90	1.783	33.00	2.833	8.70	3.88	4.00
0.750	5.90	1.800	33.00	2.850	7.30	3.90	4.00
0.767	5.90	1.817	33.00	2.867	7.30	3.92	4.00
0.783	5.90	1.833	33.00	2.883	7.30	3.93	4.00
0.800	5.90	1.850	202.99	2.900	7.30	3.95	4.00
0.817	5.90	1.867	203.00	2.917	7.30	3.97	4.00
0.833	5.90	1.883	203.00	2.933	7.30	3.98	4.00
0.850	6.80	1.900	203.00	2.950	7.30	4.00	4.00
0.867	6.80	1.917	203.00	2.967	7.30	4.02	3.80
0.883	6.80	1.933	203.00	2.983	7.30	4.03	3.80
0.900	6.80	1.950	203.00	3.000	7.30	4.05	3.80
0.917	6.80	1.967	203.00	3.017	6.30	4.07	3.80
0.933	6.80	1.983	203.00	3.033	6.30	4.08	3.80
0.950	6.80	2.000	203.00	3.050	6.30	4.10	3.80
0.967	6.80	2.017	58.01	3.067	6.30	4.12	3.80
0.983	6.80	2.033	58.00	3.083	6.30	4.13	3.80
1.000	6.80	2.050	58.00	3.100	6.30	4.15	3.80
1.017	7.90	2.067	58.00	3.117	6.30	4.17	3.80
1.033	7.90	2.083	58.00	3.133	6.30		
1.050	7.90	2.100	58.00	3.150	6.30		

Max.Eff.Inten.(mm/hr)=	203.00	133.29		
over (min)	5.00	3.00		
Storage Coeff. (min)=	1.83 (ii)	2.68 (ii)		
Unit Hyd. Tpeak (min)=	5.00	3.00		
Unit Hyd. peak (cms)=	0.39	0.40		
				TOTALS
PEAK FLOW (cms)=	0.17	0.00		0.171 (iii)
TIME TO PEAK (hrs)=	2.00	2.00		2.00
RUNOFF VOLUME (mm)=	77.00	48.24		76.71

```
     TOTAL RAINFALL   (mm)=      78.00        78.00          78.00
     RUNOFF COEFFICIENT   =       0.99         0.62           0.98


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  85.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0102)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  5.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0440      0.0083
                          0.0220     0.0041   |   0.0660      0.0124

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  2013)     0.310      0.171      2.00      76.71
   OUTFLOW: ID= 1 (  0102)     0.310      0.057      2.13      76.56

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 33.09
                  TIME SHIFT OF PEAK FLOW         (min)=  8.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0107

     **** WARNING : SELECTED ROUTING TIME STEP DENIED.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0101):     0.23   0.046     2.12    76.27
     + ID2= 2 (  0102):     0.31   0.057     2.13    76.56
       ================================================
       ID = 3 (  0001):     0.54   0.103     2.13    76.44

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0001)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 3 (  0001):     0.54   0.103     2.13    76.44
     + ID2= 2 (  0103):     0.15   0.031     2.10    76.45
       ================================================
```

```
       ID = 1 (  0001):     0.69   0.133     2.12    76.44

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0204)|   Area    (ha)=   0.33
|ID= 1 DT= 5.0 min |   Total Imp(%)=  55.00   Dir. Conn.(%)=  55.00
--------------------

                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.18         0.15
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      46.60        40.00
     Mannings n           =      0.013        0.250

         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    0.00 | 1.167    7.90 | 2.250   23.00 |  3.33    5.60
              0.167    0.00 | 1.250    9.70 | 2.333   23.00 |  3.42    5.00
              0.250    4.30 | 1.333    9.70 | 2.417   15.00 |  3.50    5.00
              0.333    4.30 | 1.417   13.00 | 2.500   15.00 |  3.58    4.50
              0.417    4.70 | 1.500   13.00 | 2.583   11.00 |  3.67    4.50
              0.500    4.70 | 1.583   18.00 | 2.667   11.00 |  3.75    4.20
              0.583    5.30 | 1.667   18.00 | 2.750    8.70 |  3.83    4.20
              0.667    5.30 | 1.750   33.00 | 2.833    8.70 |  3.92    4.00
              0.750    5.90 | 1.833   33.00 | 2.917    7.30 |  4.00    4.00
              0.833    5.90 | 1.917  203.00 | 3.000    7.30 |  4.08    3.80
              0.917    6.80 | 2.000  203.00 | 3.083    6.30 |  4.17    3.80
              1.000    6.80 | 2.083   58.00 | 3.167    6.30 |
              1.083    7.90 | 2.167   58.00 | 3.250    5.60 |

     Max.Eff.Inten.(mm/hr)=     203.00        53.72
               over (min)        5.00        10.00
     Storage Coeff.  (min)=       1.22 (ii)    6.12 (ii)
     Unit Hyd. Tpeak (min)=       5.00        10.00
     Unit Hyd. peak  (cms)=       0.33         0.15
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.10         0.02        0.115 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.08         2.00
     RUNOFF VOLUME    (mm)=      77.00        21.36        51.95
     TOTAL RAINFALL   (mm)=      78.00        78.00        78.00
     RUNOFF COEFFICIENT   =       0.99         0.27         0.67

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
```

```
       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0002)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 1 (  0001):     0.69   0.133     2.12    76.44
      + ID2= 2 (  2011):     1.84   0.835     2.00    64.20
        ================================================
        ID = 3 (  0002):     2.53   0.932     2.00    67.53

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| ADD HYD  (  0002)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
        ID1= 3 (  0002):     2.53   0.932     2.00    67.53
      + ID2= 2 (  0204):     0.33   0.115     2.00    51.95
        ================================================
        ID = 1 (  0002):     2.85   1.047     2.00    65.75

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
------------------
| CHAMBER(  0025)|  OUTFLOW: ON,   UNDERDRAIN: OFF,  INFIL: OFF
|IN= 2--> OUT= 3 |  CHAMBER:
| DT=  5.0 min   |  MAX STO VOL (cu.m.)=  710.04  Bottom Area(m2)   =  614.46
------------------
                     DEPTH       STORAGE          |   DEPTH      STORAGE
                     (mm)        (cu.m.)          |   (mm)       (cu.m.)
                        0.00          0.00        |    864.00       430.26
                       25.00         13.40        |    889.00       441.69
                       51.00         26.76        |    914.00       453.02
                       76.00         40.09        |    940.00       464.23
                      102.00         53.40        |    965.00       475.34
                      127.00         66.68        |    991.00       486.32
                      152.00         79.92        |   1016.00       497.18
                      178.00         93.14        |   1041.00       507.92
                      203.00        106.32        |   1067.00       518.52
                      229.00        119.46        |   1092.00       528.98
                      254.00        132.57        |   1118.00       539.29
                      279.00        145.64        |   1143.00       549.44
                      305.00        158.66        |   1168.00       559.43
                      330.00        171.65        |   1194.00       569.25
                      356.00        184.58        |   1219.00       578.88
                      381.00        197.47        |   1245.00       588.32
                      406.00        210.31        |   1270.00       597.54
                      432.00        223.09        |   1295.00       606.52
                      457.00        235.83        |   1321.00       615.24
                      483.00        248.51        |   1346.00       623.67
                      508.00        261.13        |   1372.00       631.72
                      533.00        273.68        |   1397.00       639.20
                      559.00        286.18        |   1422.00       646.18
                      584.00        298.61        |   1448.00       653.00
                      610.00        310.97        |   1473.00       659.69
                      635.00        323.26        |   1499.00       666.24
                      660.00        335.48        |   1524.00       672.59
                      686.00        347.62        |   1549.00       678.83
                      711.00        359.68        |   1575.00       685.08
                      737.00        371.67        |   1600.00       691.32
                      762.00        383.57        |   1626.00       697.56
                      787.00        395.38        |   1651.00       703.80
                      813.00        407.10        |   1676.00       710.04
                      838.00        418.73        |      0.00         0.00

                    DEPTH       DISCHARGE        |   DEPTH      DISCHARGE
                      (m)         (cms)          |    (m)         (cms)
                    0.000         0.000          |   1.255        0.504
                    0.455         0.000          |   1.355        0.535
                    0.555         0.178          |   1.455        0.564
                    0.655         0.252          |   1.555        0.591
                    0.755         0.309          |   1.655        0.617
                    0.855         0.356          |   1.755        0.643
                    0.955         0.399          |   1.855        0.667
                    1.055         0.437          |   1.955        0.690
                    1.155         0.472          |   2.055        0.713

                      AREA         QPEAK            TPEAK         R.V.
                      (ha)         (cms)            (hrs)         (mm)
   INFLOW:ID= 2      2.85         1.047             2.00         65.75
  OUTFLOW:ID= 1      2.85         0.546             2.07         57.51
OVERFLOW:ID= 3       0.00         0.000             0.00          0.00

            Volume Reduction Rate[(RVin-RVout)/RVin](%)=       12.52
            Time to reach Max storage              (Hr)=        2.07
            Volume of water for drawdown in LID (cu.m.)=      234.86
            Volume of maximum water storage     (cu.m.)=      604.92
            ***** After simulation, water volume is not zero.

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| Junction Command(0034) |
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                          AREA     QPEAK   TPEAK     R.V.
                          (ha)     (cms)    (hrs)    (mm)
  INFLOW : ID= 3(  0025)    0.00     0.00    0.00     0.00
  OUTFLOW: ID= 2(  0034)    0.00     0.00    0.00     0.00

  ------------------------------------------------------------------------------

  --------------------------
  | Junction Command(0035) |
  --------------------------

                          AREA     QPEAK   TPEAK     R.V.
                          (ha)     (cms)    (hrs)    (mm)
  INFLOW : ID= 1(  0025)    2.85     0.55    2.07    57.51
  OUTFLOW: ID= 2(  0035)    2.85     0.55    2.07    57.51

  ------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0202)|   Area    (ha)=   0.10
|ID= 1 DT= 5.0 min |   Total Imp(%)=  11.00   Dir. Conn.(%)=  11.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.01         0.09
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      25.66        40.00
     Mannings n           =      0.013        0.250

         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    0.00 | 1.167    7.90 | 2.250   23.00 |  3.33    5.60
 0.167    0.00 | 1.250    9.70 | 2.333   23.00 |  3.42    5.00
 0.250    4.30 | 1.333    9.70 | 2.417   15.00 |  3.50    5.00
 0.333    4.30 | 1.417   13.00 | 2.500   15.00 |  3.58    4.50
 0.417    4.70 | 1.500   13.00 | 2.583   11.00 |  3.67    4.50
 0.500    4.70 | 1.583   18.00 | 2.667   11.00 |  3.75    4.20
 0.583    5.30 | 1.667   18.00 | 2.750    8.70 |  3.83    4.20
 0.667    5.30 | 1.750   33.00 | 2.833    8.70 |  3.92    4.00
 0.750    5.90 | 1.833   33.00 | 2.917    7.30 |  4.00    4.00
 0.833    5.90 | 1.917  203.00 | 3.000    7.30 |  4.08    3.80
 0.917    6.80 | 2.000  203.00 | 3.083    6.30 |  4.17    3.80
 1.000    6.80 | 2.083   58.00 | 3.167    6.30 |
 1.083    7.90 | 2.167   58.00 | 3.250    5.60 |
```

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     Max.Eff.Inten.(mm/hr)=     203.00        53.72
               over (min)        5.00        10.00
     Storage Coeff.  (min)=       0.85 (ii)    9.90 (ii)
     Unit Hyd. Tpeak (min)=       5.00        10.00
     Unit Hyd. peak  (cms)=       0.34         0.11
                                                        *TOTALS*
     PEAK FLOW       (cms)=       0.01         0.01         0.012 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.08          2.00
     RUNOFF VOLUME    (mm)=      77.00        21.36         27.41
     TOTAL RAINFALL   (mm)=      78.00        78.00         78.00
     RUNOFF COEFFICIENT   =       0.99         0.27          0.35

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
***** WARNING:FOR AREAS WITH IMPERVIOUS RATIOS BELOW 20%
              YOU SHOULD CONSIDER SPLITTING THE AREA.

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

------------------------------------------------------------------------------
--------------------
| CALIB            |
| STANDHYD (  0203)|   Area    (ha)=   0.05
|ID= 1 DT= 5.0 min |   Total Imp(%)=  27.00   Dir. Conn.(%)=  27.00
--------------------
                           IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.01         0.04
     Dep. Storage     (mm)=       1.00         5.00
     Average Slope     (%)=       1.00         2.00
     Length            (m)=      18.90        40.00
     Mannings n           =      0.013        0.250

         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    0.00 | 1.167    7.90 | 2.250   23.00 |  3.33    5.60
 0.167    0.00 | 1.250    9.70 | 2.333   23.00 |  3.42    5.00
 0.250    4.30 | 1.333    9.70 | 2.417   15.00 |  3.50    5.00
 0.333    4.30 | 1.417   13.00 | 2.500   15.00 |  3.58    4.50
 0.417    4.70 | 1.500   13.00 | 2.583   11.00 |  3.67    4.50
 0.500    4.70 | 1.583   18.00 | 2.667   11.00 |  3.75    4.20
 0.583    5.30 | 1.667   18.00 | 2.750    8.70 |  3.83    4.20
 0.667    5.30 | 1.750   33.00 | 2.833    8.70 |  3.92    4.00
 0.750    5.90 | 1.833   33.00 | 2.917    7.30 |  4.00    4.00
```

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              0.833    5.90 | 1.917  203.00 | 3.000    7.30 |  4.08    3.80
              0.917    6.80 | 2.000  203.00 | 3.083    6.30 |  4.17    3.80
              1.000    6.80 | 2.083   58.00 | 3.167    6.30 |
              1.083    7.90 | 2.167   58.00 | 3.250    5.60 |

     Max.Eff.Inten.(mm/hr)=     203.00        53.72
               over (min)         5.00        10.00
     Storage Coeff.  (min)=       0.71 (ii)    9.76 (ii)
     Unit Hyd. Tpeak (min)=       5.00        10.00
     Unit Hyd. peak  (cms)=       0.34         0.11
                                                          *TOTALS*
     PEAK FLOW       (cms)=       0.01         0.00          0.011 (iii)
     TIME TO PEAK    (hrs)=       2.00         2.08           2.00
     RUNOFF VOLUME    (mm)=      77.00        21.36          36.29
     TOTAL RAINFALL   (mm)=      78.00        78.00          78.00
     RUNOFF COEFFICIENT   =       0.99         0.27           0.47

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  59.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0202):     0.10   0.012     2.00    27.41
     + ID2= 2 (  0203):     0.05   0.011     2.00    36.29
       ================================================
       ID = 3 (  0003):     0.15   0.023     2.00    30.54

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0003)|
|   3 +  2 =  1    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
*** W A R N I N G :  HYDROGRAPH   0034 <ID= 2> IS DRY.
*** W A R N I N G :  HYDROGRAPH   0001 = HYDROGRAPH 0003
       ID1= 3 (  0003):     0.15   0.023     2.00    30.54
     + ID2= 2 (  0034):     0.00   0.000     0.00     0.00
       ================================================
       ID = 1 (  0003):     0.15   0.023     2.00    30.54
```

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     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| ADD HYD  (  0003)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0003):     0.15   0.023     2.00    30.54
     + ID2= 2 (  0035):     2.85   0.546     2.07    57.51
       ================================================
       ID = 3 (  0003):     3.00   0.563     2.07    56.15

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
```