JANUARY 24, 2020

PROJECT NO: 1060-5384

MHBC Planning
113 Collier Street
Barrie, ON, L4M 1H2

Attention: Kory Chisholm, BES, Associate

RE: FLATO EDGEWOOD GREENS
FLATO EAST COMMERCIAL BLOCK
SERVICING & STORMWATER MANAGEMENT ANALYSIS

Dear Kory,

The following letter has been prepared in support of the Zoning By-Law Amendment (ZBA) and Official Plan Amendment (OPA) for the proposed commercial block located within the Flato Edgewood Greens Development, in the Village of Dundalk, Township of Southgate. Concurrent with the approvals process for the aforementioned amendments, a redline will be required to revise the current Flato East (Edgewood Greens) Draft Plan. It should be noted that the proposed commercial block is subject to a future Site Plan Application, which will be completed at a later date.

The proposed Concept Plan for the commercial block has been presented in Figure 1 and the Phasing Plan for the Edgewood Greens Development in Figure 2. The elements of the Concept Plan include a commercial building with a gross floor area (GFA) of 1,635 square meters (17,599 square feet), 80 parking spaces and 2 loading spaces, respectively.

The impact the commercial block will have on the development from a servicing and stormwater management perspective has been summarized within the contents of this letter. Our office has also prepared a Traffic Impact Study (TIS) under separate cover, and the reader is directed to this document for transportation engineering considerations of the land use change.

Stormwater Management (SWM) Analysis

As illustrated in the Concept Plan (Figure 1), the proposed commercial block will impact Phases 12 and 13 of the Flato Edgewood Greens Development. Thirty-three (33) townhome units will be replaced by the commercial plaza. Due to the impervious nature of the proposed design, the development will generate increased runoff. The stormwater management design for the development will have to accommodate for these changes.

The proposed commercial block is located within the SWM Facility #3 catchment area.

A preliminary design for SWM Facility #3 was completed by our office in 2016 and outlined in the Preliminary Stormwater Management and Floodplain Assessment Report. To ensure the preliminary design of this SWM Facility is sufficient to accommodate the increased levels of runoff from the commercial block, a hydrologic analysis was completed. To complete this analysis, the preliminary stage-storage discharge (SSD) relationship presented in the Preliminary SWM Report was used and

40 Huron Street, Suite 301
Collingwood, ON L9Y 4R3
T. 705.446.3510
F. 705.446.3520
cfcrozier.ca

the hydrologic model (SWMHYMO) catchment parameters were updated reflect the new impervious levels, which are characteristic of a commercial development.

The hydrologic analysis has been separated into two sections; Water Quality/ Extended Detention and Water Quantity.

Water Quality & Extended Detention (ED)

After updating the level of imperviousness for the contributing drainage area to SWM Facility #3 to account for the commercial block, the permanent pool and extended detention requirements were analyzed. As a result of the increased imperviousness, the required permanent pool and extended detention volumes increased. Based on the available storage of SWM Facility #3 (preliminary design), the facility is able to accommodate the increase of runoff and the previously designed outlet control structure (extended detention orifice) still meets the minimum 24-hour extended detention drawdown requirement. Water quality and extended detention calculations have been provided in Appendix A. A summary of the required and provided permanent pool and extended detention volumes has been provided in Table 1. Based on this analysis, the design of SWM Facility #3 is sufficient to meet the Ministry of Environment, Conservation and Parks (MECP) enhanced protection water quality objectives.

Table 1: SWM Facility Quality Control Characteristics

	Required Volume (m^3)	Provided Volume (m^3)
Permanent Pool	769	1262
MOE Extended Detention	452	1349
Erosion Control	1349	1349

Water Quantity

To determine if the SWM Facility still meets the water quantity "Post-to-Pre" control objectives for the Foley Drain, the hydrologic model (SWMHYMO) was updated. As mentioned above, only the catchment parameters of the contributing drainage area needed to be revised, as the ED orifice sizing did not need to change. As such, the SSD for SWM Facility #3, represented using the ROUTE RESERVOIR command in SWMHYMO, is consistent with the hydraulics presented in the Preliminary SWM Report. SWM Facility #2 also outlets to the Foley Drain. As such, the SWMHYMO model also includes the SSD for SWM Facility #2 based on the Phase 7 and 8 detailed design and the SWM Facility #2 catchment area, however, the design of this facility is unaffected by the introduction of the commercial block.

Based on the modelling results, the proposed commercial block did not substantially impact the design of SWM Facility #3, in that "Post-to-Pre" control is still met and the 100-year high water level (514.08 m) still remains below the emergency spillway invert (514.30 m).

As evidenced by Table 1 below, 'Post-to-Pre' peak stormwater flow rate control has been met at the point of interest for the Foley Drain.

Table 2: Summary of 'Post-to-Pre' Peak Flows in the Foley Drain

Return Period (Years)	Pre-Development (m^3/s)	Post Development (m^3/s)
2 yr Chicago	1.44	1.44
5 yr Chicago	2.86	2.82
10 yr Chicago	3.98	3.90
25 yr Chicago	5.52	5.43
50 yr Chicago	6.80	6.69
100 yr Chicago	8.10	7.97
2 yr SCS	3.63	3.58
5 yr SCS	6.41	6.33
10 yr SCS	8.50	8.37
25 yr SCS	11.32	11.14
50 yr SCS	13.55	13.31
100 yr SCS	15.79	15.48

As outlined in the table below, the SWMHYMO results indicate that the 100-year high water level of SWM Facility #3 sits at approximately 85% of the ponds total storage, up to the invert of the emergency spillway. It should be noted that this analysis is based on the preliminary design and is subject to change during detailed design. Should more storage be required, additional SWM techniques can be incorporated in the design (i.e. underground storage within the commercial block), however, based on this SWM analysis, no additional storage is required. SWMHYMO modelling input and output files have been provided in Appendix B, as well as the updated hydrologic parameter sheets.

Table 3: Summary of SWM Facility Operating Conditions

SWM Facility #3	Without Commercial Block		With Commercial Block	
Operating Level	**Elevation**	**Storage**	**Elevation**	**Storage**
Permanent Pool (Provided)	512.40 m	1262 m^3	512.40 m	1262 m^3
Permanent Pool (Required)		758 m^3		769 m^3
Extended Detention	512.73 m	1310 m^3	512.75	1349 m^3
100-year HWL	514.08 m	9044 m^3	514.08 m	9100 m^3
Emergency Spillway Invert	514. 30 m	10757 m^3	514.30m	10757 m^3
Storage Used	84%[1]		85%[1]	

1. Up to the invert of the emergency spillway; not entire pond storage.

Based on this analysis, at this time we can confirm that the proposed commercial block is feasible from a stormwater management perspective, and the approved size of the SWM Facility #3 block is adequately sized to handle the increased volume of runoff and stormwater flows generated by the proposed Draft Plan changes.

Civil Servicing

Our office has completed a preliminary analysis of servicing considerations associated with the change in land use from residential townhouses to the commercial plaza.

Sanitary Servicing

Sanitary servicing flows have been estimated for the commercial plaza, as well as for the Townhouses which were previously prepared. In comparing the sanitary flows produced by the two development scenarios, it can be seen that the commercial development represents significantly lower sanitary flow production. Calculations on flow production have been appended to this brief (Appendix C) and demonstrate peak flows of 0.3 L/s can be anticipated in the case of the commercial development, verses 1.6 L/s which would be produced were the previously proposed townhouses to be developed.

It is noted that the above referenced calculations were completed based on general preliminary flow values for commercial/ retail developments per Ontario Building Code. These calculations may be revised through the detailed design process, and as details of the anticipated tenants/ specific building uses become known.

The sanitary servicing strategy remains similar to as it was under the previously proposed land use. Gravity sanitary sewers will be installed under the future adjacent roadways. A sanitary stub will be provided to service the commercial block. Flows produced will be conveyed to the Sanitary Pumping Station which is currently under design by Crozier and Associates in support of Phases 7-13 of the overall Edgewood Greens development.

Per the 2019 Reserve Capacity Study (Triton Engineering, April 2019), Phases 7-13 of the Flato East development represent 460 uncommitted equivalent residential units. Currently the Township's Waste Water Treatment Plant can support 410 uncommitted equivalent residential units. The EA process to increase wastewater capacity is ongoing, however our office notes that the proposed change to commercial usage will facilitate a modest reduction in equivalent residential units associated with the Flato East Development, and promote additional capacity for other developments which currently do not have allocated sanitary servicing capacity (Flato Glenelg, White Rose [Phase 3], and the remainder of Flato East).

Domestic Water.

Similar to anticipated sanitary flow rates, the overall water usage demands were evaluated and compared between the commercial block development, and the previously proposed Townhouse scenarios. As was the case for sanitary demands, the commercial building is anticipated to utilize lower typical domestic flow rates. Flow rates are summarized in the below table, and supporting calculations are appended to this memo (Appendix D).

Table 4: Domestic Water Demands

Development Scenario	Townhouses	Commercial Plaza
Average Demand (L/s)	0.36	0.09
Peak Hour Demand (L/s) *	1.95	1.35
Maximum Daily Demand (L/s) *	1.30	0.90

* It is noted that peak hour and Maximum Daily Demands are inflated as a result of high peak factors associated with excluding the remainder of the Edgewood Greens development.

It is noted that the above rates do not consider fire flows. Commercial usage typically requires more substantial fire flows and associated watermain pressures than townhouse/ residential uses. Fire flow requirements have been detailed in the below table and calculations are appended to this brief (Appendix D). We note that at this time, conservative assumptions have been made in the calculation of fire suppression requirements and are therefore considered preliminary. The calculations will be revised through the Site Plan Application process as more details of the building's use and physical characteristics become known. Confirmation of available fire flows to service the development will be required to be completed by the Township's Engineering Consultant; Triton Engineering Ltd. Fire flows will need to be considered in the design of the watermain through the remaining phases of Flato East to ensure fire flows can be met at the commercial block. If the available fire flows are insufficient, the option of on-site water storage should be examined and watermain looping from Highway 10.

Table 5: Preliminary Fire Flow Calculations

	Required Fire Flows (Commercial Block)
Fire Underwriters Survey	150 L/s
Ontario Building Code	150 L/s

As is the case with sanitary servicing; the water servicing strategy will remain similar to the previously proposed Townhouses. Watermain will be installed within the adjacent public right-of - ways and a servicing stub will be provided to the site to facilitate servicing the commercial plaza.

Per the 2019 Reserve Capacity Study, the Township's water treatment infrastructure possesses capacity for 1,816 uncommitted new development equivalent residential units. This exceeds the current total of uncommitted developments of 770 units.

Conclusions and Recommendations

Based on the foregoing, our office concludes that the change in land use from townhouse units to a commercial plaza will not materially impact the stormwater management or civil servicing strategy for the Subject Lands. Stormwater management and civil servicing can be adequately provided within the context of the revised Draft Plan. Therefore, our office recommends the approval of the planning applications from the perspective of satisfying related engineering constraints.

Should you have any questions or concerns, please contact the undersigned.
Sincerely,

C.F. CROZIER & ASSOCIATES INC.

Brittany Robertson, P.Eng.
Associate

C.F. CROZIER & ASSOCIATES INC.

Darrin Tone, P.Eng.
Project Engineer

J:\1000\1060-Flato Dev\5177-Flato East Phases 7 & 8\Letters\2019.10.03_Servicing Memo.docx

Appendix A

SWM Facility Calculations

Water Quality Requirements

Project #:	1060-5384
Project:	Dundalk Commercial
Date:	2020.01.17
By:	HB

Post-development Scenario Water Quality Requirements for SWM Facility #3 Wetland

Areas Contributing	Area (ha)	% Imp	25mm RV (mm)	25mm RV (m^3)
FB2	10.1	59	11.76	1188
SWMF3	1.21	50	13.36	162
TOTAL	**11.31**	**58**		**1349**

MOE Total WQ Volume (m^3/ha)	108
MOE ED Volume (m^3/ha)	40
MOE ED Volume (m^3)	452
MOE PP Volume (m^3/ha)	68
MOE PP Volume (m^3)	769
Pond Required ED Volume (m^3)	1349
Pond Required PP Volume (m^3)	769
Available ED Volume	1349
Provided PP Volume (m^3)*	1262

* $PP\ Vol\ = (Avg.\ PP\ Area\ in\ Forebay \times Forebay\ Deepth) + (Avg.\ PP\ Area\ in\ Main\ Cell \times Main\ Cell\ Deepth)$

$$PP\ Vol\ = \left(\frac{223m^2 + 721m^2}{2} \times 1m\right) + \left(\frac{2445m^2 + 2820m^2}{2} \times 0.3m\right) = 1262m^3$$

CROZIER & ASSOCIATES
Consulting Engineers

Project:	1060-5384
Project No.:	Dundalk Commercial
File:	Extended Detention
Design by:	HB
Date:	2020.01.17

EXTENDED DETENTION SPECIFICATIONS - SWM FACILITY #3

(Per MOECC)

Extended Detention Volume (Area x runoff from 25mm event)		1349
t (drawdown time - seconds, *hours in italics*)	*37.5*	135000
Ao (cross section area of orifice - sqm)		0.0123
h (maximum water elevation above orifice for extended detention- m)		0.35
C (discharge coefficient)		0.64
Ap (average surface area for extended detention - sqm)		3997

t = 2*Ap*(h^0.5)/(C*Ao*(g*2)^0.5)

Ao =	0.012357419 sqm	d =	125	mm

Extended Detention Orifice Diameter (as designed)	d =	**125**	mm

CROZIER & ASSOCIATES
Consulting Engineers

Project:	1060-5384
Project No.:	Dundalk Commercial
File:	Stage Storage Discharge
Design by:	BH
Date:	June 1, 2016
MOD:	2020.01.14

SWM Facility #3 Pond Stage Storage Outflow Calculations & Extended Detention Calculations (per GRCA)

Outlet Structure Dimensions

E.D. Orifice Diameter:	0.125 m
E.D. Orifice Invert Elevation:	512.4 m
Spillway Elev.	514.3 m
Spillway Bot. Width	20 m
Trap. Side Slopes	6:1

Pond Dimensions				East Outlet Structure Discharge				Total		
Elev. (m)	Depth Above PP (m)	Area (sqm)	Storage Volume (cu.m)	ED Orifice Discharge (cu.m/s)	Spillway Ave. Weir Width (m)	Spillway Discharge (cu.m/s)	Total Discharge (cu.m/s)	ED Draw-down time (hrs)	Total Discharge (cu.m/s)	Storage (ha-m)
512.40	0.00	*3541*	0	0.000	0.00	0.000	0.000		0.000	0.000
512.50	0.10	3737	364	0.007	0.00	0.000	0.007	30.008	**0.007**	**0.036**
512.60	0.20	3933	747	0.013	0.00	0.000	0.013	10.849	**0.013**	**0.075**
512.68	0.28	4089	1068	0.016	1.00	0.000	0.016	6.121	**0.016**	**0.107**
512.70	0.30	4128	1150	0.017	10.40	0.000	0.017		**0.017**	**0.115**
512.75	0.35	4226	1349	0.019	10.70	0.000	0.019		0.019	0.135
512.80	0.40	4324	1573	0.020	11.00	0.000	0.020		0.020	0.157
512.90	*0.50*	*4520*	*2015*	0.023	11.60	0.000	0.023		**0.023**	**0.202**
513.00	0.60	4768	2480	0.026	12.20	0.000	0.0255		0.026	0.248
513.05	0.65	4891	2721	0.027	12.50	0.000	0.027		**0.027**	**0.272**
513.10	0.70	5015	2969	0.028	12.80	0.000	0.028		0.028	0.297
513.20	0.80	5263	3483	0.030	13.40	0.000	0.030		**0.030**	**0.348**
513.30	0.90	5510	4021	0.032	14.00	0.000	0.032		0.032	0.402
513.40	1.00	5758	4585	0.034	14.60	0.000	0.034		0.034	0.458
513.50	1.10	6006	5173	0.035	15.20	0.000	0.035		**0.035**	**0.517**
513.60	1.20	6253	5786	0.037	15.80	0.000	0.037		0.037	0.579
513.70	1.30	6501	6424	0.039	16.40	0.000	0.039		0.039	0.642
513.80	1.40	6748	7086	0.040	17.00	0.000	0.040		**0.040**	**0.709**
513.90	1.50	6996	7773	0.042	17.60	0.000	0.042		0.042	0.777
514.00	1.60	7243	8485	0.043	18.20	0.000	0.043		0.043	0.849
514.10	*1.70*	*7491*	*9222*	0.045	18.80	0.000	0.045		**0.045**	**0.922**
514.20	1.80	7677	9980	0.046	19.40	0.000	0.046		0.046	0.998
514.30	1.90	7863	10757	0.047	20.00	0.000	0.047		0.047	1.076
514.40	*2.00*	*8049*	*11553*	0.048	20.60	1.199	1.247		**1.247**	**1.155**
						Total ED Draw Down Time (hrs)		46.978		

Appendix B

SWMHYMO Modelling Files
&
Hydrologic Parameter Sheets

Project Name:	Edgewood Greens	**D.A. NAME**	**Ext 1**
Project Number:	1060-4892	**D.A. AREA (ha)**	**41.2**
Date:	February 12, 2019		
By:	H. Birrell		

Hydrologic Parameters: NASHYD Command
Pre-Development - Unnamed Tributary

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	74.15	30.55
Harriston Silt Loam	Hs	B	25.85	10.65
				0.00
				0.00
Total Area				41.20

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	3.0	98		98		98	4.4	98		98	7.4	725.2
Hs	0.3	98		98		98	0.3	98		98	0.6	58.8
0		98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
Subtotal Area	3.3		0		0		4.7		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	4.62	60	6.48	65	0.00	50	5.01	69	7.05	74	23.15	1565.12
Hs	0.92	60	0.00	65	0.00	50	5.53	69	3.60	74	10.05	703.15
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Subtotal Area	5.54		6.48		0.00		10.53		10.65			

Composite Area Calculations	Total Pervious Area	33.20
	Total Impervious Area	8
	% Impervious	0.2
	Composite Curve Number	74.1
	Total Area Check	41.2

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		0		0		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	5.541	55.41002	0.25	4.62	0.25	0.92		0		0	1.38525
Meadow	8	6.4765	51.81195	0.28	6.48		0		0		0	1.81342
Wetland	16	0	0		0.00		0		0		0	0
Lawn/Pasture	5	10.534	52.6692	0.28	5.01	0.28	5.53		0		0	2.94948
Cultivated	7	10.649	74.54064	0.35	7.05	0.35	3.60		0.00		0	3.72703
Impervious	2	8	16	0.95	7.40	0.95	0.60		0		0	7.6
Composite IA		41.2	6.078442	Composite Runoff Coefficient								0.42415

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	950	8.5	0.89%	4.6	0.44	0.61	0.41	0.70	0.85	0.57	1.38	0.92
Overland	300	2	0.67%	2.3	0.19	0.44	0.30					
	Appropriate calculated time to peak:				0.57	Appropriate Method:			Bransby Williams			

Project Name:	Edgewood Greens	**D.A. NAME**	**Pre 2**
Project Number:	1060-4892	**D.A. AREA (ha)**	**14.85**
Date:	February 12, 2019		
By:	H.B		

Hydrologic Parameters: NASHYD Command
Pre-Development - Unnamed Tributary

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	14.85
Harriston Silt Loam	Hs	B	0.00	0.00
				0.00
				0.00
Total Area				14.85

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0	98		98		98		98		98	0	0
Hs	0	98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
Subtotal Area	0		0		0		0		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.00	60	0.00	65	0.00	50	0.00	69	14.85	74	14.85	1098.90
Hs	0.00	60	0.00	65	0.00	50	0.00	69	0.00	74	0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Subtotal Area	0.00		0.00		0.00		0.00		14.85			

Composite Area Calculations	Total Pervious Area	14.85
	Total Impervious Area	0
	% Impervious	0.0
	Composite Curve Number	74.0
	Total Area Check	14.85

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		0		0		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	0	0	0.25	0.00	0.25	0.00		0		0	0
Meadow	8	0	0	0.28	0.00		0		0		0	0
Wetland	16	0	0		0.00		0		0		0	0
Lawn/Pasture	5	0	0	0.28	0.00	0.28	0.00		0		0	0
Cultivated	7	14.85	103.95	0.35	14.85	0.35	0.00		0.00		0	5.1975
Impervious	2	0	0	0.95	0.00	0.95	0.00		0		0	0
Composite IA		14.85	7	Composite Runoff Coefficient								0.35

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	500	3.2	0.64%	4.6	0.37	0.38	0.25	0.39	0.52	0.35	1.12	0.75
Overland	200	3	1.50%	2.3	0.28	0.20	0.13					
	Appropriate calculated time to peak:				0.75	Appropriate Method:			Airport			

Project Name:	Edgewood Greens	**D.A. NAME**	**Ext 3**
Project Number:	1060-4892	**D.A. AREA (ha)**	**1.55**
Date:	February 12, 2019		
By:	HB		

Hydrologic Parameters: NASHYD Command
Pre-Development - Unnamed Tributary

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	1.55
Harriston Silt Loam	Hs	B	0.00	0.00
				0.00
				0.00
Total Area				1.55

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0	98		98		98		98		98	0	0
Hs	0	98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
Subtotal Area	0		0		0		0		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	1.55	60	0.00	65	0.00	50	0.00	69	0.00	74	1.55	93.00
Hs	0.00	60	0.00	65	0.00	50	0.00	69	0.00	74	0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Subtotal Area	1.55		0.00		0.00		0.00		0.00			

Composite Area Calculations	Total Pervious Area	1.55
	Total Impervious Area	0
	% Impervious	0.0
	Composite Curve Number	60.0
	Total Area Check	1.55

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		0		0		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	1.55	15.5	0.25	1.55	0.25	0.00		0		0	0.3875
Meadow	8	0	0	0.28	0.00		0		0		0	0
Wetland	16	0	0		0.00		0		0		0	0
Lawn/Pasture	5	0	0	0.28	0.00	0.28	0.00		0		0	0
Cultivated	7	0	0	0.35	0.00	0.35	0.00		0.00		0	0
Impervious	2	0	0	0.95	0.00	0.95	0.00		0		0	0
Composite IA		1.55	10	Composite Runoff Coefficient								0.25

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	100	0.89	0.89%	4.6	0.43	0.06	0.04	0.14	0.19	0.13	0.71	0.47
Overland	100	0.67	0.67%	2.3	0.19	0.15	0.10					
	Appropriate calculated time to peak:				0.47	Appropriate Method:			Airport			

Project Name:	Edgewood Greens	**D.A. NAME**	**Ext 2**
Project Number:	1060-4892	**D.A. AREA (ha)**	**417.20**
Date:	February 12, 2019		
By:	HB		

Hydrologic Parameters: NASHYD Command
Pre-Development - Foley Drain

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	16.9	70.61
Harriston Silt Loam	Hs	B	52.1	217.30
Parkhill Loam	Pal	C	6.8	28.37
Muck	M	D	24.2	100.92
Total Area				417.20

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	1.8	98		98		98		98		98	1.8167	178.0349
Hs	4.9	98		98		98		98		98	4.9195	482.1064
Pal		98		98		98		98		98	0	0
M		98		98		98		98		98	0	0
Subtotal Area	6.74		0		0		0		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	19.44	60	3.04	65	0.01	50	4.13	69	42.17	74	68.79	4770.28
Hs	20.32	60	9.17	65	0.05	50	11.85	69	171.00	74	212.38	15289.03
Pal	2.82	73	4.43	76	0.00	50	0.97	79	20.14	82	28.37	2271.07
M	58.35	79	18.28	81	0.02	50	0.02	84	24.26	86	100.92	8178.53
Subtotal Area	100.92		34.92		0.08		16.96		257.57			

Composite Area Calculations	Total Pervious Area	410.46
	Total Impervious Area	6.7361
	% Impervious	0.016
	Composite Curve Number	74.7
	Total Area Check	417.2

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		Parkhill Loam		Muck		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	100.9	1009.2	0.25	19.44	0.25	20	0.35	3	0.35	58	31.34738
Meadow	8	34.9	279.4	0.28	3.04	0.28	9	0.40	4	0.40	18	12.50393
Wetland	16	0.1	1.3	0.05	0.01	0.05	0.05		0	0.05	0.02	0.004182
Lawn/Pasture	5	17.0	84.8	0.28	4.13	0.28	12	0.40	1	0.40	0	4.867269
Cultivated	7	257.6	1803.0	0.35	42.17	0.35	171.00	0.55	20.14	0.55	24	99.03074
Impervious	2	6.7	13.5	0.95	1.82	0.95	5	0.95	0	0.95	0	6.399328
Composite IA		417.2	7.65	Composite Runoff Coefficient								0.369494

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	4150	15	0.36%	4.6	0.28	4.17	2.79	3.08	2.79	1.87	3.51	2.35
Overland	400	5	1.25%	2.3	0.26	0.43	0.29					

Appropriate calculated time to peak:	1.87	Appropriate Method:	Bransby Williams

Project Name:	Edgewood Greens	**D.A. NAME**	**Pre 3**
Project Number:	1060-4892	**D.A. AREA (ha)**	**29.18**
Date:	February 12, 2019		
By:	HB		

Hydrologic Parameters: NASHYD Command
Pre-Development - Foley Drain

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	73.0	21.30
Harriston Silt Loam	Hs	B	0.0	0.00
Parkhill Loam	Pal	C	27.0	7.88
Muck	M	D	0.0	0.00
Total Area				29.18

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0	98		98		98		98		98	0	0
Hs	0	98		98		98		98		98	0	0
Pal		98		98		98		98		98	0	0
M		98		98		98		98		98	0	0
Subtotal Area	0		0		0		0		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.00	60	0.00	65	0.00	50	0.00	69	21.30	74	21.30	1576.30
Hs	0.00	60	0.00	65	0.00	50	0.00	69	0.00	74	0.00	0.00
Pal	0.00	73	0.00	76	0.00	50	0.00	79	7.88	82	7.88	646.05
M	0.00	79	0.00	81	0.00	50	0.00	84	0.00	86	0.00	0.00
Subtotal Area	0.00		0.00		0.00		0.00		29.18			

Composite Area Calculations	Total Pervious Area	29.18
	Total Impervious Area	0
	% Impervious	0.000
	Composite Curve Number	76.2
	Total Area Check	29.18

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		Parkhill Loam		Muck		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	0.0	0.0	0.25	0.00	0.25	0	0.35	0	0.35	0	0
Meadow	8	0.0	0.0	0.28	0.00	0.28	0	0.40	0	0.40	0	0
Wetland	16	0.0	0.0	0.05	0.00	0.05	0.00		0	0.05	0.00	0
Lawn/Pasture	5	0.0	0.0	0.28	0.00	0.28	0	0.40	0	0.40	0	0
Cultivated	7	29.2	204.3	0.35	21.30	0.35	0.00	0.55	7.88	0.55	0	11.78872
Impervious	2	0.0	0.0	0.95	0.00	0.95	0	0.95	0	0.95	0	0
Composite IA		29.2	7.0	Composite Runoff Coefficient								0.40

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	350	2	0.57%	4.6	0.35	0.28	0.19	0.40	0.46	0.31	0.96	0.64
Overland	350	6	1.71%	2.3	0.30	0.32	0.22					

Appropriate calculated time to peak:	0.64	Appropriate Method:	Airport

Project Name:	Edgewood Greens	**D.A. NAME**	**Ext 4**
Project Number:	1060-4892	**D.A. AREA (ha)**	**6.30**
Date:	February 12, 2019		
By:	HB		

Hydrologic Parameters: NASHYD Command
Pre-Development - Foley Drain

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	63.4	3.99
Harriston Silt Loam	Hs	B	0.0	0.00
Parkhill Loam	Pal	C	36.7	2.31
Muck	M	D	0.0	0.00
Total Area				6.30

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.00	98		98		98		98		98	0	0
Hs	0.00	98		98		98		98		98	0	0
Pal		98		98		98		98		98	0	0
M		98		98		98		98		98	0	0
Subtotal Area	0		0		0		0		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	3.99	60	0.00	65	0.00	50	0.00	69	0.00	74	3.99	239.46
Hs	0.00	60	0.00	65	0.00	50	0.00	69	0.00	74	0.00	0.00
Pal	2.31	73	0.00	76	0.00	50	0.00	79	0.00	82	2.31	168.55
M	0.00	79	0.00	81	0.00	50	0.00	84	0.00	86	0.00	0.00
Subtotal Area	6.30		0.00		0.00		0.00		0.00			

Composite Area Calculations	Total Pervious Area	6.30
	Total Impervious Area	0
	% Impervious	0.000
	Composite Curve Number	64.8
	Total Area Check	6.3

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		Parkhill Loam		Muck		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	6.3	63.0	0.25	3.99	0.25	0	0.35	2	0.35	0	1.805895
Meadow	8	0.0	0.0	0.28	0.00	0.28	0	0.40	0	0.40	0	0
Wetland	16	0.0	0.0	0.05	0.00	0.05	0.00		0	0.05	0.00	0
Lawn/Pasture	5	0.0	0.0	0.28	0.00	0.28	0	0.40	0	0.40	0	0
Cultivated	7	0.0	0.0	0.35	0.00	0.35	0.00	0.55	0.00	0.55	0	0
Impervious	2	0.0	0.0	0.95	0.00	0.95	0	0.95	0	0.95	0	0
Composite IA		6.3	10.0	Composite Runoff Coefficient								0.28665

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	100	0.65	0.65%	4.6	0.37	0.07	0.05	0.34	0.39	0.26	0.95	0.64
Overland	400	5	1.25%	2.3	0.26	0.43	0.29					

Appropriate calculated time to peak:	0.64	Appropriate Method:	Airport

NOTE: REVISED TO INCLUDE PROPOSED COMMERCIAL BLOCK

CROZIER & ASSOCIATES Consulting Engineers

Project Name:	Edgewood Greens	**D.A. NAME**	**FB2**
Project Number:	1060-5384	**D.A. AREA (ha)**	**10.10**
Date:	2020.01.13		
By:	HB		

Hydrologic Parameters: STANDHYD Command
Post-Development

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	10.10
				0.00
				0.00
				0.00
Total Area Check				10.10

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	2.67	98		98	0.60	98	2.68	98		98	5.95	583.3
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
Subtotal Area	2.67		0		0.60		2.68					

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0		0		0		4.1	74	0		4.15	307
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
Subtotal Area	0		0		0		4.15		0			

Note:	% X imp and % T imp given	Pervious Area Calculations	Total Pervious Area: 4.15
			Composite Pervious Curve Number (*): 74.0
		Impervious Area Calculations	Total Directly Connected Area: 3.27
			Total Indirectly Connected Area: 2.68
			Total Impervious Area: 5.95
			% X imp: 32.4
			% T imp: 58.9
			Total Area Check: 10.1

Initial Abstraction and Tp Calculations

Landuse	IA (mm)	Area (ha)	A * IA
Woodland	10	0	0
Meadow	8	0	0
Wetland	16	0	0
Lawn	5	4.15	20.7377
Cultivated	7	0	0

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2.0%	40	0.25
Impervious	2.0	0.5%	259	0.013

*Impervious travel length calculated by LGI = (A/1.5)^0.5

NOTE: REVISED TO INCLUDE PROPOSED COMMERCIAL BLOCK

CROZIER & ASSOCIATES Consulting Engineers

Project Name:	Edgewood Greens	**D.A. NAME**	**SWM #3**
Project Number:	1060-5384	**D.A. AREA (ha)**	**1.21**
Date:	2020.01.13		
By:	H. Birrell		

Hydrologic Parameters: STANDHYD Command
Post-Development

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	1.21
				0.00
				0.00
				0.00
Total Area Check				1.21

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls		98		98		98		98	0.61	98	0.61	59.3
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
Subtotal Area	0.00		0		0.00		0.00		0.61		0.61	

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0		0		0		0.61	74	0		0.61	45
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
Subtotal Area	0		0		0		0.61		0			

Note:	% X imp and % T imp given	Pervious Area Calculations	Total Pervious Area: 0.61
			Composite Pervious Curve Number (*): 74.0
		Impervious Area Calculations	Total Directly Connected Area: 0.61
			Total Indirectly Connected Area: 0.00
			Total Impervious Area: 0.61
			% X imp: 50.0
			% T imp: 50.0
			Total Area Check: 1.21

Initial Abstraction and Tp Calculations

Landuse	IA (mm)	Area (ha)	A * IA
Woodland	10	0	0
Meadow	8	0	0
Wetland	16	0	0
Lawn	5	0.61	3.025
Cultivated	7	0	0

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2.0%	40	0.25
Impervious	2.0	0.5%	90	0.013

*Impervious travel length calculated by LGI = (A/1.5)^0.5

Project Name:	Edgewood Greens	**D.A. NAME**	**Ext 4**
Project Number:	1060-5177	**D.A. AREA (ha)**	**6.30**
Date:	June 24, 2019		
By:	HB		

Hydrologic Parameters: NASHYD Command
Post-Development - Foley Drain

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	63.4	3.99
Harriston Silt Loam	Hs	B	0.0	0.00
Parkhill Loam	Pal	C	36.7	2.31
Muck	M	D	0.0	0.00
Total Area				6.30

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.00	98		98		98		98		98	0	0
Hs	0.00	98		98		98		98		98	0	0
Pal		98		98		98		98		98	0	0
M		98		98		98		98		98	0	0
Subtotal Area	0		0		0		0		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	3.99	60	0.00	65	0.00	50	0.00	69	0.00	74	3.99	239.46
Hs	0.00	60	0.00	65	0.00	50	0.00	69	0.00	74	0.00	0.00
Pal	2.31	73	0.00	76	0.00	50	0.00	79	0.00	82	2.31	168.55
M	0.00	79	0.00	81	0.00	50	0.00	84	0.00	86	0.00	0.00
Subtotal Area	6.30		0.00		0.00		0.00		0.00			

Composite Area Calculations	Total Pervious Area	6.30
	Total Impervious Area	0
	% Impervious	0.000
	Composite Curve Number	64.8
	Total Area Check	6.3

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		Parkhill Loam		Muck		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	6.3	63.0	0.25	3.99	0.25	0	0.35	2	0.35	0	1.805895
Meadow	8	0.0	0.0	0.28	0.00	0.28	0	0.40	0	0.40	0	0
Wetland	16	0.0	0.0	0.05	0.00	0.05	0.00		0	0.05	0.00	0
Lawn/Pasture	5	0.0	0.0	0.28	0.00	0.28	0	0.40	0	0.40	0	0
Cultivated	7	0.0	0.0	0.35	0.00	0.35	0.00	0.55	0.00	0.55	0	0
Impervious	2	0.0	0.0	0.95	0.00	0.95	0	0.95	0	0.95	0	0
Composite IA		6.3	10.0	Composite Runoff Coefficient								0.28665

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	100	0.65	0.65%	4.6	0.37	0.07	0.05	0.34	0.39	0.26	0.95	0.64
Overland	400	5	1.25%	2.3	0.26	0.43	0.29					

Appropriate calculated time to peak:	0.64	Appropriate Method:	Airport

Project Name:	Edgewood Greens	**D.A. NAME**	**FB Z1 - 2**
Project Number:	1060-5177	**D.A. AREA (ha)**	**5.68**
Date:	June 24, 2019		
By:	H. Birrell		

Hydrologic Parameters: NASHYD Command
Post-Development - West WS (Full Buildout)

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	5.68
Harriston Silt Loam	Hs	B	0.00	0.00
				0.00
				0.00
Total Area				5.68

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.1	98		98		98	0.6	98		98	0.7	68.6
Hs	0	98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
Subtotal Area	0.1		0		0		0.6		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.00	60	0.00	65	0.00	50	0.00	74	4.98	74	4.98	368.52
Hs	0.00	60	0.00	65	0.00	50	0.00	74	0.00	74	0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Subtotal Area	0.00		0.00		0.00		0.00		4.98			

Composite Area Calculations		
	Total Pervious Area	4.98
	Total Impervious Area	0.7
	% Impervious	0.1
	Composite Curve Number	77.0
	Total Area Check	5.68

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		0		0		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	0	0	0.25	0.00	0.25	0.00		0		0	0
Meadow	8	0	0	0.28	0.00		0		0		0	0
Wetland	16	0	0		0.00		0		0		0	0
Lawn/Pasture	5	0	0	0.28	0.00	0.28	0.00		0		0	0
Cultivated	7	4.98	34.86	0.35	4.98	0.35	0.00		0.00		0	1.743
Impervious	2	0.7	1.4	0.95	0.70	0.95	0.00		0		0	0.665
Composite IA		5.68	6.4	Composite Runoff Coefficient								0.42394

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	500	4.2	0.84%	4.6	0.42	0.33	0.22	0.22	0.60	0.40	1.02	0.68
Overland	250	3	1.20%	2.3	0.25							
	Appropriate calculated time to peak:				0.40	Appropriate Method:			Bransby Williams			

Project Name:	Edgewood Greens	**D.A. NAME**	**MINOR**
Project Number:	1060-5177	**D.A. AREA (ha)**	**0.21**
Date:	June 24, 2019		
By:	HB		

Hydrologic Parameters: STANDHYD Command
Post-Development

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	0.21
				0.00
				0.00
				0.00
Total Area Check				0.21

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.05	98		98	0.08	98	0.00	98		98	0.13	12.6
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
Subtotal Area	0.05		0		0.08		0.00					

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0		0		0		0.1	74	0		0.08	6
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
Subtotal Area	0		0		0		0.08		0			

Note:	% X imp and % T imp given	Pervious Area Calculations	Total Pervious Area: 0.08
			Composite Pervious Curve Number (*): 74.0
		Impervious Area Calculations	Total Directly Connected Area: 0.13
			Total Indirectly Connected Area: 0.00
			Total Impervious Area: 0.13
			% X imp: 61.4
			% T imp: 61.4
			Total Area Check: 0.21

Initial Abstraction and Tp Calculations

Landuse	IA (mm)	Area (ha)	A * IA
Woodland	10	0	0
Meadow	8	0	0
Wetland	16	0	0
Lawn	5	0.08	0.4
Cultivated	7	0	0

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2.0%	40	0.25
Impervious	2.0	0.5%	37	0.013

*Impervious travel length calculated by LGI = (A/1.5)^0.5

Project Name:	Edgewood Greens	**D.A. NAME**	**FB1-A**
Project Number:	1060-5177	**D.A. AREA (ha)**	**0.33**
Date:	June 24, 2019		
By:	HB		

Hydrologic Parameters: STANDHYD Command
Post-Development

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	0.33
				0.00
				0.00
				0.00
Total Area Check				0.33

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.00	98		98	0.00	98	0.13	98		98	0.13	12.7
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
Subtotal Area	0.00		0		0.00		0.13					

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0		0		0		0.2	74	0		0.20	15
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
Subtotal Area	0		0		0		0.20		0			

Note:	% X imp and % T imp given	Pervious Area Calculations	Total Pervious Area: 0.20
			Composite Pervious Curve Number (*): 74.0
		Impervious Area Calculations	Total Directly Connected Area: 0.00
			Total Indirectly Connected Area: 0.13
			Total Impervious Area: 0.13
			% X imp: 0.0
			% T imp: 39.4
		Total Area Check	0.33

Initial Abstraction and Tp Calculations

Landuse	IA (mm)	Area (ha)	A * IA
Woodland	10	0	0
Meadow	8	0	0
Wetland	16	0	0
Lawn	5	0.20	1
Cultivated	7	0	0

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2.0%	40	0.25
Impervious	2.0	0.5%	47	0.013

*Impervious travel length calculated by LGI = (A/1.5)^0.5

Project Name:	Edgewood Greens	**D.A. NAME**	**FB1**
Project Number:	1060-5177	**D.A. AREA (ha)**	**14.70**
Date:	July 3, 2019		
By:	HB		

Hydrologic Parameters: STANDHYD Command
Post-Development

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	14.70
				0.00
				0.00
				0.00
Total Area Check				14.70

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	4.50	98		98	0.50	98	3.10	98		98	8.10	793.8
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
Subtotal Area	4.50		0		0.50		3.10					

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0		0		0		6.6	74	0		6.60	488
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
Subtotal Area	0		0		0		6.60		0			

Note:	% X imp and % T imp given	Pervious Area Calculations	Total Pervious Area: 6.60
			Composite Pervious Curve Number (*): 74.0
		Impervious Area Calculations	Total Directly Connected Area: 5.00
			Total Indirectly Connected Area: 3.10
			Total Impervious Area: 8.10
			% X imp: 34.0
			% T imp: 55.1
		Total Area Check	14.70

Initial Abstraction and Tp Calculations

Landuse	IA (mm)	Area (ha)	A * IA
Woodland	10	0	0
Meadow	8	0	0
Wetland	16	0	0
Lawn	5	6.60	33
Cultivated	7	0	0

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2.0%	40	0.25
Impervious	2.0	0.5%	313	0.013

*Impervious travel length calculated by LGI = (A/1.5)^0.5

Project Name:	Edgewood Greens	**D.A. NAME**	**FB Z1 - 3**
Project Number:	1060-5177	**D.A. AREA (ha)**	**1.0**
Date:	June 24, 2019		
By:	H. Birrell		

Hydrologic Parameters: STANDHYD Command
Post-Development (Full Buildout)

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	0.98
				0.00
				0.00
				0.00
Total Area Check				0.98

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.29	98		98		98	0.20	98		98	0.49	48.0
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
Subtotal Area	0.29		0		0.00		0.20		0.00		0.49	

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0		0		0		0.49	74	0		0.49	36
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
Subtotal Area	0		0		0		0.49		0			

Note:	% X imp and % T imp given	Pervious Area Calculations	Total Pervious Area 0.49
			Composite Pervious Curve Number (*) 74.0
		Impervious Area Calculations	Total Directly Connected Area 0.29
			Total Indirectly Connected Area 0.20
			Total Impervious Area 0.49
			% X imp 30.0
			% T imp 50.0
			Total Area Check 0.98

Initial Abstraction and Tp Calculations

Landuse	IA (mm)	Area (ha)	A * IA
Woodland	10	0	0
Meadow	8	0	0
Wetland	16	0	0
Lawn	5	0.49	2.45
Cultivated	7	0	0

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2.0%	40	0.25
Impervious	2.0	0.5%	81	0.013

*Impervious travel length calculated by LGI = (A/1.5)^0.5

Project Name:	Edgewood Greens	**D.A. NAME**	**FB Z1 - 1**
Project Number:	1060-5177	**D.A. AREA (ha)**	**12.4**
Date:	June 6, 2019		
By:	H. Birrell		

Hydrologic Parameters: STANDHYD Command
Post-Development (Full Buildout)

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	12.37
				0.00
				0.00
				0.00
Total Area Check				12.37

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	3.71	98		98		98	2.47	98		98	6.19	606.1
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
Subtotal Area	3.71		0		0.00		2.47		0.00		6.19	

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0		0		0		6.185	74	0		6.19	458
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
Subtotal Area	0		0		0		6.19		0			

Note:	% X imp and % T imp given	Pervious Area Calculations	Total Pervious Area: 6.19
			Composite Pervious Curve Number (*): 74.0
		Impervious Area Calculations	Total Directly Connected Area: 3.71
			Total Indirectly Connected Area: 2.47
			Total Impervious Area: 6.19
			% X imp: 30.0
			% T imp: 50.0
			Total Area Check: 12.37

Initial Abstraction and Tp Calculations

Landuse	IA (mm)	Area (ha)	A * IA
Woodland	10	0	0
Meadow	8	0	0
Wetland	16	0	0
Lawn	5	6.19	30.925
Cultivated	7	0	0

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2.0%	40	0.25
Impervious	2.0	0.5%	287	0.013

*Impervious travel length calculated by LGI = (A/1.5)^0.5

Project Name:	Edgewood Greens	**D.A. NAME**	**NAT**
Project Number:	1060-5177	**D.A. AREA (ha)**	**6.51**
Date:	July 3, 2019		
By:	H. Birrell		

Hydrologic Parameters: NASHYD Command
Pre-Development - Foley Drain

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	73.0	4.75
Harriston Silt Loam	Hs	B	0.0	0.00
Parkhill Loam	Pal	C	27.0	1.76
Muck	M	D	0.0	0.00
Total Area				6.51

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0	98		98		98	0.79	98		98	0.79	77.42
Hs	0	98		98		98		98		98	0	0
Pal		98		98		98		98		98	0	0
M		98		98		98		98		98	0	0
Subtotal Area	0		0		0		0.79		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.00	60	0.00	65	0.00	50	0.00	69	3.96	74	3.96	293.21
Hs	0.00	60	0.00	65	0.00	50	0.00	69	0.00	74	0.00	0.00
Pal	0.00	73	0.00	76	0.00	50	0.00	79	1.76	82	1.76	144.13
M	0.00	79	0.00	81	0.00	50	0.00	84	0.00	86	0.00	0.00
Subtotal Area	0.00		0.00		0.00		0.00		5.72			

Composite Area Calculations	Total Pervious Area	5.72
	Total Impervious Area	0.79
	% Impervious	0.121
	Composite Curve Number	79.1
	Total Area Check	6.51

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		Parkhill Loam		Muck		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	0.0	0.0	0.25	0.00	0.25	0	0.35	0	0.35	0	0
Meadow	8	0.0	0.0	0.28	0.00	0.28	0	0.40	0	0.40	0	0
Wetland	16	0.0	0.0	0.05	0.00	0.05	0.00		0	0.05	0.00	0
Lawn/Pasture	5	0.0	0.0	0.28	0.00	0.28	0	0.40	0	0.40	0	0
Cultivated	7	5.7	40.0	0.35	3.96	0.35	0.00	0.55	1.76	0.55	0	2.35354
Impervious	2	0.8	1.6	0.95	0.79	0.95	0	0.95	0	0.95	0	0.7505
Composite IA		6.5	6.4	Composite Runoff Coefficient								0.48

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	350	2	0.57%	4.6	0.35	0.28	0.19	0.40	0.54	0.36	0.86	0.57
Overland	350	6	1.71%	2.3	0.30	0.32	0.22					

Appropriate calculated time to peak:	0.36	Appropriate Method:	Bransby Williams

Project Name:	Edgewood Greens	**D.A. NAME**	**SWMF2**
Project Number:	1060-5177	**D.A. AREA (ha)**	**1.11**
Date:	June 24, 2019		
By:	H. Birrell		

Hydrologic Parameters: STANDHYD Command
Post-Development

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	1.11
				0.00
				0.00
				0.00
Total Area Check				1.11

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls		98		98		98		98	0.56	98	0.56	54.9
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
Subtotal Area	0.00		0		0.00		0.00		0.56		0.56	

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0		0		0		0.6	74	0		0.55	41
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
Subtotal Area	0		0		0		0.56		0			

Note:	% X imp and % T imp given	Pervious Area Calculations	Total Pervious Area: 0.55
			Composite Pervious Curve Number (*): 74.0
		Impervious Area Calculations	Total Directly Connected Area: 0.56
			Total Indirectly Connected Area: 0.00
			Total Impervious Area: 0.56
			% X imp: 50.5
			% T imp: 50.5
		Total Area Check	1.11

Initial Abstraction and Tp Calculations

Landuse	IA (mm)	Area (ha)	A * IA
Woodland	10	0	0
Meadow	8	0	0
Wetland	16	0	0
Lawn	5	0.55	2.75
Cultivated	7	0	0

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2.0%	40	0.25
Impervious	2.0	0.5%	86	0.013

*Impervious travel length calculated by LGI = (A/1.5)^0.5

Project Name:	Edgewood Greens	**D.A. NAME**	**Ext 5**
Project Number:	1060-5177	**D.A. AREA (ha)**	**0.97**
Date:	June 24, 2019		
By:	H. Birrell		

Hydrologic Parameters: NASHYD Command
Post-Development - Unnamed Tributary

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100	0.97
Harriston Silt Loam	Hs	B	0	0.00
				0.00
				0.00
Total Area				0.97

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls		98		98		98	0.15	98		98	0.15	14.7
Hs		98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
Subtotal Area	0		0		0		0.15		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0.00	60	0.00	65	0.00	50	0.82	74	0.00	74	0.82	60.68
Hs	0.00	60	0.00	65	0.00	50	0.00	74	0.00	74	0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Subtotal Area	0.00		0.00		0.00		0.82		0.00			

Composite Area Calculations	Total Pervious Area	0.8
	Total Impervious Area	0.2
	% Impervious	0.15
	Composite Curve Number	77.7
	Total Area Check	0.97

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		0		0		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	0	0	0.25	0.00	0.25	0.00		0		0	0
Meadow	8	0	0	0.28	0.00		0		0		0	0
Wetland	16	0	0		0.00		0		0		0	0
Lawn/Pasture	5	0.82	4.1	0.28	0.82	0.28	0.00		0		0	0.2296
Cultivated	7	0	0	0.35	0.00	0.35	0.00		0.00		0	0
Impervious	2	0.15	0.3	0.95	0.15	0.95	0.00		0		0	0.1425
Composite IA		0.97	4.536082	Composite Runoff Coefficient								0.383608

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Overland	130	2	1.54%	2.3	0.29	0.13	0.08	0.08	0.11	0.08	0.38	0.26
	Appropriate calculated time to peak:				0.26	Appropriate Method:			Airport			

Project Name:	Edgewood Greens	**D.A. NAME**	**SWMF #1**
Project Number:	1060-5177	**D.A. AREA (ha)**	**1.9**
Date:	June 24, 2019		
By:	H. Birrell		

Hydrologic Parameters: STANDHYD Command
Post-Development

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	1.90
				0.00
				0.00
				0.00
Total Area Check				1.90

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls		98		98		98		98	0.95	98	0.95	93.1
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
0		98		98		98		98		98	0.00	0.00
Subtotal Area	0.00		0		0.00		0.00		0.95		0.95	

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0		0		0		0.95	74	0		0.95	70
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
0	0		0		0		0.00		0		0.00	0.00
Subtotal Area	0		0		0		0.95		0			

Note:	% X imp and % T imp given	Pervious Area Calculations	Total Pervious Area: 0.95
			Composite Pervious Curve Number (*): 74.0
		Impervious Area Calculations	Total Directly Connected Area: 0.95
			Total Indirectly Connected Area: 0.00
			Total Impervious Area: 0.95
			% X imp: 50.0
			% T imp: 50.0
		Total Area Check	1.90

Initial Abstraction and Tp Calculations

Landuse	IA (mm)	Area (ha)	A * IA
Woodland	10	0	0
Meadow	8	0	0
Wetland	16	0	0
Lawn	5	0.95	4.75
Cultivated	7	0	0

Land Use	IA (mm)	Slope (%)	Travel Length (m)	Manning's n
Pervious	5.0	2.0%	40	0.25
Impervious	2.0	0.5%	113	0.013

*Impervious travel length calculated by LGI = (A/1.5)^0.5

Project Name:	Edgewood Greens	**D.A. NAME**	**Ext 1**
Project Number:	1060-5177	**D.A. AREA (ha)**	**41.2**
Date:	June 24, 2019		
By:	H. Birrell		

Hydrologic Parameters: NASHYD Command
Pre-Development - Unnamed Tributary

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	74.15	30.55
Harriston Silt Loam	Hs	B	25.85	10.65
				0.00
				0.00
Total Area				41.20

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	3.0	98		98		98	4.4	98		98	7.4	725.2
Hs	0.3	98		98		98	0.3	98		98	0.6	58.8
0		98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
Subtotal Area	3.3		0		0		4.7		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	4.62	60	6.48	65	0.00	50	5.01	69	7.05	74	23.15	1565.12
Hs	0.92	60	0.00	65	0.00	50	5.53	69	3.60	74	10.05	703.15
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Subtotal Area	5.54		6.48		0.00		10.53		10.65			

Composite Area Calculations	Total Pervious Area	33.20
	Total Impervious Area	8
	% Impervious	0.2
	Composite Curve Number	74.1
	Total Area Check	41.2

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		0		0		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	5.54	55.41002	0.25	4.62	0.25	0.92		0		0	1.38525
Meadow	8	6.4765	51.81195	0.28	6.48		0		0		0	1.81342
Wetland	16	0	0		0.00		0		0		0	0
Lawn/Pasture	5	10.534	52.6692	0.28	5.01	0.28	5.53		0		0	2.94948
Cultivated	7	10.649	74.54064	0.35	7.05	0.35	3.60		0.00		0	3.72703
Impervious	2	8	16	0.95	7.40	0.95	0.60		0		0	7.6
Composite IA		41.2	6.078442	Composite Runoff Coefficient								0.42415

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	950	8.5	0.89%	4.6	0.44	0.61	0.41	0.70	0.85	0.57	1.38	0.92
Overland	300	2	0.67%	2.3	0.19	0.44	0.30					
	Appropriate calculated time to peak:				0.57	Appropriate Method:			Bransby Williams			

Project Name:	Edgewood Greens	**D.A. NAME**	**Ext 3**
Project Number:	1060-5177	**D.A. AREA (ha)**	**1.55**
Date:	June 24, 2019		
By:	H. Birrell		

Hydrologic Parameters: NASHYD Command
Pre-Development - Unnamed Tributary

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	100.00	1.55
Harriston Silt Loam	Hs	B	0.00	0.00
				0.00
				0.00
Total Area				1.55

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	0	98		98		98		98		98	0	0
Hs	0	98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
0		98		98		98		98		98	0	0
Subtotal Area	0		0		0		0		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	1.55	60	0.00	65	0.00	50	0.00	69	0.00	74	1.55	93.00
Hs	0.00	60	0.00	65	0.00	50	0.00	69	0.00	74	0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
0	0.00		0.00		0.00		0.00		0.00		0.00	0.00
Subtotal Area	1.55		0.00		0.00		0.00		0.00			

Composite Area Calculations	Total Pervious Area	1.55
	Total Impervious Area	0
	% Impervious	0.0
	Composite Curve Number	60.0
	Total Area Check	1.55

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		0		0		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	1.55	15.5	0.25	1.55	0.25	0.00		0		0	0.3875
Meadow	8	0	0	0.28	0.00		0		0		0	0
Wetland	16	0	0		0.00		0		0		0	0
Lawn/Pasture	5	0	0	0.28	0.00	0.28	0.00		0		0	0
Cultivated	7	0	0	0.35	0.00	0.35	0.00		0.00		0	0
Impervious	2	0	0	0.95	0.00	0.95	0.00		0		0	0
Composite IA		1.55	10	Composite Runoff Coefficient								0.25

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	100	0.89	0.89%	4.6	0.43	0.06	0.04	0.14	0.19	0.13	0.71	0.47
Overland	100	0.67	0.67%	2.3	0.19	0.15	0.10					
Appropriate calculated time to peak:					0.47	Appropriate Method:			Airport			

Project Name:	Edgewood Greens	**D.A. NAME**	**Ext 2**
Project Number:	1060-5177	**D.A. AREA (ha)**	**417.20**
Date:	June 24, 2019		
By:	H. Birrell		

Hydrologic Parameters: NASHYD Command
Pre-Development - Foley Drain

Curve Number Calculation

Soil Types Present:				
Type	ID	Hydrologic Group	% Area	Area
Listowell Silt Loam	Ls	B	16.9	70.61
Harriston Silt Loam	Hs	B	52.1	217.30
Parkhill Loam	Pal	C	6.8	28.37
Muck	M	D	24.2	100.92
Total Area				417.20

Impervious Landuses Present:												
	Roadway		Sidewalk		Driveway		Building		SWMF		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	1.8	98		98		98		98		98	1.8167	178.0349
Hs	4.9	98		98		98		98		98	4.9195	482.1064
Pal		98		98		98		98		98	0	0
M		98		98		98		98		98	0	0
Subtotal Area	6.74		0		0		0		0			

Pervious Landuses Present:												
	Woodland		Meadow		Wetland		Lawn/Pasture		Cultivated		Subtotals	
Soils	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area (ha)	CN	Area	A*CN
Ls	19.44	60	3.04	65	0.01	50	4.13	69	42.17	74	68.79	4770.28
Hs	20.32	60	9.17	65	0.05	50	11.85	69	171.00	74	212.38	15289.03
Pal	2.82	73	4.43	76	0.00	50	0.97	79	20.14	82	28.37	2271.07
M	58.35	79	18.28	81	0.02	50	0.02	84	24.26	86	100.92	8178.53
Subtotal Area	100.92		34.92		0.08		16.96		257.57			

Composite Area Calculations	Total Pervious Area	410.46
	Total Impervious Area	6.7361
	% Impervious	0.016
	Composite Curve Number	74.7
	Total Area Check	417.2

Initial Abstraction and Tp Calculations

Initial Abstraction				Composite Curve Number								
Landuse	IA (mm)	Area (ha)	A * IA	Listowell Silt Loam		Harriston Silt Loam		Parkhill Loam		Muck		
				RC	Area	RC	Area	RC	Area	RC	Area	A*RC
Woodland	10	100.9	1009.2	0.25	19.44	0.25	20	0.35	3	0.35	58	31.34738
Meadow	8	34.9	279.4	0.28	3.04	0.28	9	0.40	4	0.40	18	12.50393
Wetland	16	0.1	1.3	0.05	0.01	0.05	0.05		0	0.05	0.02	0.004182
Lawn/Pasture	5	17.0	84.8	0.28	4.13	0.28	12	0.40	1	0.40	0	4.867269
Cultivated	7	257.6	1803.0	0.35	42.17	0.35	171.00	0.55	20.14	0.55	24	99.03074
Impervious	2	6.7	13.5	0.95	1.82	0.95	5	0.95	0	0.95	0	6.399328
Composite IA		417.2	7.65	Composite Runoff Coefficient								0.369494

Time to Peak Inputs						Uplands			Bransby Williams		Airport	
Flow Path Description	Length (m)	Drop (m)	Slope (%)	$V/S^{0.5}$	Velocity (m/s)	Tc (hr)	Tp(hr)	TOTAL Tp (hr)	Tc (hr)	Tp(hr)	Tc (hr)	Tp(hr)
Channel	4150	15	0.36%	4.6	0.28	4.17	2.79	3.08	2.79	1.87	3.51	2.35
Overland	400	5	1.25%	2.3	0.26	0.43	0.29					

Appropriate calculated time to peak:	1.87	Appropriate Method:	Bransby Williams

PRE-DEVELOPMENT - INPUT


```
00001> 2     Metric units
00002> *#*************************************************************************
00003> *#  Project Name: [Dundalk East]               Project Number: [1060-4892]
00004> *#  Date         : 08-09-2018
00005> *#  Modeller     : [B.H/HB]
00006> *#  Company      : C.F. Crozier & Associates Inc.
00007> *#  License #    :  3737016
00008> *#*************************************************************************
00009> START               TZERO=[0.0],  METOUT=[2],  NSTORM=[0],  NRUN=[0]
00010> *%                    [  ] <--storm filename, one per line for NSTORM time
00011> *%-----------------|-------------------------------------------------------|
00012> *#-----------------|------------------ PRE DEVELOPMENT MODEL ----------------|
00013> *%-----------------|-------------------------------------------------------|
00014> *#-----------------|-------------------------------------------------------|
00015> *#                    2222   Y   Y  RRRR       CCCC  H   H  IIIII            |
00016> *#                       2    Y Y   R   R     C      H   H    I              |
00017> *#                    2222     Y    RRRR      C      HHHHH    I              |
00018> *#                    2        Y    R  R      C      H   H    I              |
00019> *#                    2222     Y    R   R      CCCC  H   H  IIIII            |
00020> *#-----------------|-------------------------------------------------------|
00021> *#*************************************************************************
00022> *#                              2-YEAR, 3 HOUR CHICAGO STORM
00023> *#*************************************************************************
00024> *#-----------------|-------------------------------------------------------|
00025> CHICAGO STORM       IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
00026>                     ICASEcs=[2],
00027>                     Enter ordinates of IDF curve below, at least seven points
00028>                         TIME (min)    Intensity(mm/hr)
00029>                           [5]         [117.8]
00030>                           [10]        [72.8]
00031>                           [15]        [55.0]
00032>                           [30]        [34.0]
00033>                           [60]        [21.0]
00034>                           [120]       [13.0]
00035>                           [360]       [6.1]
00036>                           [720]       [3.7]
00037>                           [1440]      [2.3]
00038>                              -1                -1
00039> *#-----------------|-------------------------------------------------------|
00040> *#-----------------|--------------- West Catchment Area ----------------------|
00041> *#-----------------|---------------- Unnamed Tributary ----------------------|
00042> *%-----------------|-------------------------------------------------------|
00043> CALIB NASHYD        ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
00044>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
00045>                     N=[3], TP=[0.57]hrs,
00046>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00047> *#-----------------|-------------------------------------------------------|
00048> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
00049>                     RDT=[1](min),
00050>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
00051>                                         FPSLOPE=[0.96](%),
00052>                     SECNUM=[1],        NSEG=[3]
00053>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00054>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00055>                                                    [ 48.0, 514.81]
00056>                                                    [ 60.0, 514.69]
00057>                                                    [ 68.5, 514.54]
00058>                                                    [ 75.5, 514.23]
00059>                                                    [ 76.0, 514.06]
00060>                                                    [ 77.5, 514.06]
00061>                                                    [ 78.5, 514.36]
00062>                                                    [ 79.5, 514.39]
00063>                                                    [ 92.5, 514.49]
00064>                                                    [103.5, 514.51]
00065>                                                    [118.5, 514.67]
00066>                                                    [130.5, 514.50]
00067>                                                    [151.0, 515.00]
00068> *%-----------------|-------------------------------------------------------|
00069> CALIB NASHYD        ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
00070>                     DWF=[0](cms),  CN/C=[74], IA=[7](mm),
00071>                     N=[3], TP=[0.75]hrs,
00072>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00073> *#-----------------|-------------------------------------------------------|
00074> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00075> *#-----------------|-------------------------------------------------------|
00076> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
00077>                     RDT=[1](min),
00078>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
00079>                                         FPSLOPE=[0.96](%),
00080>                     SECNUM=[1],        NSEG=[3]
00081>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00082>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00083>                                                    [ 48.0, 514.81]
00084>                                                    [ 60.0, 514.69]
00085>                                                    [ 68.5, 514.54]
00086>                                                    [ 75.5, 514.23]
00087>                                                    [ 76.0, 514.06]
00088>                                                    [ 77.5, 514.06]
00089>                                                    [ 78.5, 514.36]
00090>                                                    [ 79.5, 514.39]
00091>                                                    [ 92.5, 514.49]
00092>                                                    [103.5, 514.51]
00093>                                                    [118.5, 514.67]
00094>                                                    [130.5, 514.50]
00095>                                                    [151.0, 515.00]
00096> *%-----------------|-------------------------------------------------------|
00097> CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
00098>                     DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
00099>                     N=[3], TP=[0.47]hrs,
00100>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00101> *#-----------------|-------------------------------------------------------|
00102> ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
00103> *#-----------------|-------------------------------------------------------|
00104>                     |---------------------------------------------------------|
00105> *#-----------------|-------------------------------------------------------|
00106> *#-----------------|--------------- East Catchment Area ----------------------|
00107> *#-----------------|-------------------- Foley Drain --------------------------|
00108> *%-----------------|-------------------------------------------------------|
00109> CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
00110>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
00111>                     N=[3], TP=[1.87]hrs,
00112>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00113> *%-----------------|-------------------------------------------------------|
00114> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
00115>                     RDT=[1](min),
00116>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00117>                                         FPSLOPE=[0.65](%),
00118>                     SECNUM=[1],        NSEG=[3]
00119>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00120>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00121>                                                    [196.60, 514.00]
00122>                                                    [215.60, 513.59]
00123>                                                    [216.55, 513.00]
00124>                                                    [217.20, 512.50]
00125>                                                    [217.45, 512.46]
00126>                                                    [217.80, 512.50]
00127>                                                    [218.95, 513.00]
00128>                                                    [221.30, 513.50]
00129>                                                    [221.70, 513.71]
00130>                                                    [230.40, 513.71]
00131>                                                    [243.80, 514.00]
00132>                                                    [249.40, 514.12]
00133>                                                    [259.50, 514.28]
00134>                                                    [266.50, 514.50]
00135> *%-----------------|-------------------------------------------------------|
00136> CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
00137>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
00138>                     N=[3], TP=[0.64]hrs,
00139>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00140> *#-----------------|-------------------------------------------------------|
00141> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00142> *#-----------------|-------------------------------------------------------|
00143> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
00144>                     RDT=[1](min),
00145>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00146>                                         FPSLOPE=[0.65](%),
00147>                     SECNUM=[1],        NSEG=[3]
00148>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00149>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00150>                                                    [196.60, 514.00]
00151>                                                    [215.60, 513.59]
00152>                                                    [216.55, 513.00]
00153>                                                    [217.20, 512.50]
00154>                                                    [217.45, 512.46]
00155>                                                    [217.80, 512.50]
00156>                                                    [218.95, 513.00]
00157>                                                    [221.30, 513.50]
00158>                                                    [221.70, 513.71]
00159>                                                    [230.40, 513.71]
00160>                                                    [243.80, 514.00]
00161>                                                    [249.40, 514.12]
00162>                                                    [259.50, 514.28]
00163>                                                    [266.50, 514.50]
00164> *%-----------------|-------------------------------------------------------|
00165> CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
00166>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
00167>                     N=[3], TP=[0.64]hrs,
00168>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00169> *#-----------------|-------------------------------------------------------|
00170> ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
00171> *#-----------------|-------------------------------------------------------|
00172> ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
00173> *#-----------------|-------------------------------------------------------|
00174> SAVE HYD            ID=[7],   # OF PCYCLES=[1],  ICASEsh=[-1]
00175>                     HYD_FILENAME=["C2yTUT.txt"]
00176>                     HYD_COMMENT=["Total FLow in Unnamed Tributary in 2yr CHI"]
00177> *%-----------------|-------------------------------------------------------|
00178> SAVE HYD            ID=[8],   # OF PCYCLES=[1],  ICASEsh=[-1]
00179>                     HYD_FILENAME=["C2yTFD.txt"]
00180>                     HYD_COMMENT=["Total FLow in Foley Drain in 2yr CHI"]
00181> *%-----------------|-------------------------------------------------------|
00182> *#-----------------|-------------------------------------------------------|
00183>
00184> *#*************************************************************************
00185> *#                    5555   Y   Y  RRRR       CCCC  H   H  IIIII            |
00186> *#                    5       Y Y   R   R     C      H   H    I              |
00187> *#                    5555     Y    RRRR      C      HHHHH    I              |
00188> *#                       5     Y    R  R      C      H   H    I              |
00189> *#                    5555     Y    R   R      CCCC  H   H  IIIII            |
00190> *#*************************************************************************
00191> *#*************************************************************************
00192> *#                              5-YEAR, 3 HOUR CHICAGO STORM
00193> *#*************************************************************************
00194> *#-----------------|-------------------------------------------------------|
00195> CHICAGO STORM       IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
00196>                     ICASEcs=[2],
00197>                     Enter ordinates of IDF curve below, at least seven points
00198>                         TIME (min)    Intensity(mm/hr)
00199>                           [5]         [158.4]
00200>                           [10]        [98.0]
00201>                           [15]        [74.0]
00202>                           [30]        [45.8]
00203>                           [60]        [28.3]
00204>                           [120]       [17.5]
00205>                           [360]       [8.2]
00206>                           [720]       [5.1]
00207>                           [1440]      [3.1]
00208>                              -1                -1
00209> *#-----------------|-------------------------------------------------------|
00210> *#-----------------|--------------- West Catchment Area ----------------------|
00211> *#-----------------|---------------- Unnamed Tributary ----------------------|
00212> *%-----------------|-------------------------------------------------------|
00213> CALIB NASHYD        ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
00214>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
00215>                     N=[3], TP=[0.57]hrs,
00216>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00217> *#-----------------|-------------------------------------------------------|
00218> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
00219>                     RDT=[1](min),
00220>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
00221>                                         FPSLOPE=[0.96](%),
00222>                     SECNUM=[1],        NSEG=[3]
00223>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00224>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00225>                                                    [ 48.0, 514.81]
00226>                                                    [ 60.0, 514.69]
00227>                                                    [ 68.5, 514.54]
00228>                                                    [ 75.5, 514.23]
00229>                                                    [ 76.0, 514.06]
00230>                                                    [ 77.5, 514.06]
00231>                                                    [ 78.5, 514.36]
00232>                                                    [ 79.5, 514.39]
00233>                                                    [ 92.5, 514.49]
00234>                                                    [103.5, 514.51]
00235>                                                    [118.5, 514.67]
00236>                                                    [130.5, 514.50]
00237>                                                    [151.0, 515.00]
00238> *%-----------------|-------------------------------------------------------|
00239> CALIB NASHYD        ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
00240>                     DWF=[0](cms),  CN/C=[74], IA=[7](mm),
00241>                     N=[3], TP=[0.75]hrs,
00242>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00243> *#-----------------|-------------------------------------------------------|
00244> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00245> *#-----------------|-------------------------------------------------------|
00246> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
00247>                     RDT=[1](min),
00248>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
00249>                                         FPSLOPE=[0.96](%),
00250>                     SECNUM=[1],        NSEG=[3]
00251>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00252>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00253>                                                    [ 48.0, 514.81]
00254>                                                    [ 60.0, 514.69]
00255>                                                    [ 68.5, 514.54]
00256>                                                    [ 75.5, 514.23]
00257>                                                    [ 76.0, 514.06]
00258>                                                    [ 77.5, 514.06]
00259>                                                    [ 78.5, 514.36]
00260>                                                    [ 79.5, 514.39]
00261>                                                    [ 92.5, 514.49]
00262>                                                    [103.5, 514.51]
00263>                                                    [118.5, 514.67]
00264>                                                    [130.5, 514.50]
00265>                                                    [151.0, 515.00]
00266> *%-----------------|-------------------------------------------------------|
00267> CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
00268>                     DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
00269>                     N=[3], TP=[0.47]hrs,
00270>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
```

```
00271> *#-----------------|-------------------------------------------------------|
00272> ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
00273> *#-----------------|-------------------------------------------------------|
00274>
00275> *#-----------------|-------------------------------------------------------|
00276> *#-----------------|--------------- East Catchment Area -----------------|
00277> *#-----------------|------------------- Foley Drain -------------------|
00278> *%-----------------|-------------------------------------------------------|
00279> CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
00280>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
00281>                     N=[3], TP=[1.87]hrs,
00282>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00283> *%-----------------|-------------------------------------------------------|
00284> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
00285>                     RDT=[1](min),
00286>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00287>                                         FPSLOPE=[0.65](%),
00288>                     SECNUM=[1],       NSEG=[3]
00289>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00290>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00291>                                                    [196.60, 514.00]
00292>                                                    [215.60, 513.59]
00293>                                                    [216.55, 513.00]
00294>                                                    [217.20, 512.50]
00295>                                                    [217.45, 512.46]
00296>                                                    [217.80, 512.50]
00297>                                                    [218.95, 513.00]
00298>                                                    [221.30, 513.50]
00299>                                                    [221.70, 513.71]
00300>                                                    [230.40, 513.71]
00301>                                                    [243.80, 514.00]
00302>                                                    [249.40, 514.12]
00303>                                                    [259.50, 514.28]
00304>                                                    [266.50, 514.50]
00305> *%-----------------|-------------------------------------------------------|
00306> CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
00307>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
00308>                     N=[3], TP=[0.64]hrs,
00309>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00310> *#-----------------|-------------------------------------------------------|
00311> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00312> *#-----------------|-------------------------------------------------------|
00313> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
00314>                     RDT=[1](min),
00315>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00316>                                         FPSLOPE=[0.65](%),
00317>                     SECNUM=[1],       NSEG=[3]
00318>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00319>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00320>                                                    [196.60, 514.00]
00321>                                                    [215.60, 513.59]
00322>                                                    [216.55, 513.00]
00323>                                                    [217.20, 512.50]
00324>                                                    [217.45, 512.46]
00325>                                                    [217.80, 512.50]
00326>                                                    [218.95, 513.00]
00327>                                                    [221.30, 513.50]
00328>                                                    [221.70, 513.71]
00329>                                                    [230.40, 513.71]
00330>                                                    [243.80, 514.00]
00331>                                                    [249.40, 514.12]
00332>                                                    [259.50, 514.28]
00333>                                                    [266.50, 514.50]
00334> *%-----------------|-------------------------------------------------------|
00335> CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
00336>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
00337>                     N=[3], TP=[0.64]hrs,
00338>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00339> *#-----------------|-------------------------------------------------------|
00340> ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
00341> *#-----------------|-------------------------------------------------------|
00342> ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
00343> *#-----------------|-------------------------------------------------------|
00344> SAVE HYD            ID=[7],   # OF PCYCLES=[1],  ICASEsh=[-1]
00345>                     HYD_FILENAME=["C2yTUT.txt"]
00346>                     HYD_COMMENT=["Total FLow in Unnamed Tributary in 2yr CHI"]
00347> *%-----------------|-------------------------------------------------------|
00348> SAVE HYD            ID=[8],   # OF PCYCLES=[1],  ICASEsh=[-1]
00349>                     HYD_FILENAME=["C2yTFD.txt"]
00350>                     HYD_COMMENT=["Total FLow in Foley Drain in 2yr CHI"]
00351> *%-----------------|-------------------------------------------------------|
00352> *#-----------------|-------------------------------------------------------|
00353>
00354>
00355> *#*****************************************************************************
00356> *#                  11    000    Y   Y  RRRR       CCCC  H   H  IIIII          |
00357> *#                 1 1   0    0   Y Y   R   R     C      H   H    I            |
00358> *#                   1   0    0    Y    RRRR      C      HHHHH    I            |
00359> *#                   1   0    0    Y    R  R      C      H   H    I            |
00360> *#                 11111  000      Y    R   R      CCCC  H   H  IIIII          |
00361> *#-----------------------------------------------------------------------------|
00362> *#*****************************************************************************
00363> *#                              10-YEAR, 3 HOUR CHICAGO STORM
00364> *#*****************************************************************************
00365> *#-----------------|-------------------------------------------------------|
00366> CHICAGO STORM       IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
00367>                     ICASEcs=[2],
00368>                     Enter ordinates of IDF curve below, at least seven points
00369>                         TIME (min)    Intensity(mm/hr)
00370>                           [5]         [185.8]
00371>                           [10]        [114.9]
00372>                           [15]        [86.8]
00373>                           [30]        [53.7]
00374>                           [60]        [33.2]
00375>                           [120]       [20.5]
00376>                           [360]       [9.6]
00377>                           [720]       [5.9]
00378>                           [1440]      [3.7]
00379>                              -1          -1
00380> *#-----------------|-------------------------------------------------------|
00381> *#-----------------|--------------- West Catchment Area -----------------|
00382> *#-----------------|---------------- Unnamed Tributary ------------------|
00383> *%-----------------|-------------------------------------------------------|
00384> CALIB NASHYD        ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
00385>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
00386>                     N=[3], TP=[0.57]hrs,
00387>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00388> *#-----------------|-------------------------------------------------------|
00389> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
00390>                     RDT=[1](min),
00391>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
00392>                                         FPSLOPE=[0.96](%),
00393>                     SECNUM=[1],       NSEG=[3]
00394>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00395>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00396>                                                    [ 48.0, 514.81]
00397>                                                    [ 60.0, 514.69]
00398>                                                    [ 68.5, 514.54]
00399>                                                    [ 75.5, 514.23]
00400>                                                    [ 76.0, 514.06]
00401>                                                    [ 77.5, 514.06]
00402>                                                    [ 78.5, 514.36]
00403>                                                    [ 79.5, 514.39]
00404>                                                    [ 92.5, 514.49]
00405>                                                    [103.5, 514.51]
00406>                                                    [118.5, 514.67]
00407>                                                    [130.5, 514.50]
00408>                                                    [151.0, 515.00]
00409> *%-----------------|-------------------------------------------------------|
00410> CALIB NASHYD        ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
00411>                     DWF=[0](cms),  CN/C=[74], IA=[7](mm),
00412>                     N=[3], TP=[0.75]hrs,
00413>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00414> *#-----------------|-------------------------------------------------------|
00415> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00416> *#-----------------|-------------------------------------------------------|
00417> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
00418>                     RDT=[1](min),
00419>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
00420>                                         FPSLOPE=[0.96](%),
00421>                     SECNUM=[1],       NSEG=[3]
00422>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00423>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00424>                                                    [ 48.0, 514.81]
00425>                                                    [ 60.0, 514.69]
00426>                                                    [ 68.5, 514.54]
00427>                                                    [ 75.5, 514.23]
00428>                                                    [ 76.0, 514.06]
00429>                                                    [ 77.5, 514.06]
00430>                                                    [ 78.5, 514.36]
00431>                                                    [ 79.5, 514.39]
00432>                                                    [ 92.5, 514.49]
00433>                                                    [103.5, 514.51]
00434>                                                    [118.5, 514.67]
00435>                                                    [130.5, 514.50]
00436>                                                    [151.0, 515.00]
00437> *%-----------------|-------------------------------------------------------|
00438> CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
00439>                     DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
00440>                     N=[3], TP=[0.47]hrs,
00441>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00442> *#-----------------|-------------------------------------------------------|
00443> ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
00444> *#-----------------|-------------------------------------------------------|
00445>
00446> *#-----------------|-------------------------------------------------------|
00447> *#-----------------|--------------- East Catchment Area -----------------|
00448> *%-----------------|-------------------------------------------------------|
00449> CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
00450>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
00451>                     N=[3], TP=[1.87]hrs,
00452>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00453> *%-----------------|-------------------------------------------------------|
00454> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
00455>                     RDT=[1](min),
00456>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00457>                                         FPSLOPE=[0.65](%),
00458>                     SECNUM=[1],       NSEG=[3]
00459>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00460>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00461>                                                    [196.60, 514.00]
00462>                                                    [215.60, 513.59]
00463>                                                    [216.55, 513.00]
00464>                                                    [217.20, 512.50]
00465>                                                    [217.45, 512.46]
00466>                                                    [217.80, 512.50]
00467>                                                    [218.95, 513.00]
00468>                                                    [221.30, 513.50]
00469>                                                    [221.70, 513.71]
00470>                                                    [230.40, 513.71]
00471>                                                    [243.80, 514.00]
00472>                                                    [249.40, 514.12]
00473>                                                    [259.50, 514.28]
00474>                                                    [266.50, 514.50]
00475> *%-----------------|-------------------------------------------------------|
00476> CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
00477>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
00478>                     N=[3], TP=[0.64]hrs,
00479>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00480> *#-----------------|-------------------------------------------------------|
00481> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00482> *#-----------------|-------------------------------------------------------|
00483> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
00484>                     RDT=[1](min),
00485>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00486>                                         FPSLOPE=[0.65](%),
00487>                     SECNUM=[1],       NSEG=[3]
00488>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00489>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00490>                                                    [196.60, 514.00]
00491>                                                    [215.60, 513.59]
00492>                                                    [216.55, 513.00]
00493>                                                    [217.20, 512.50]
00494>                                                    [217.45, 512.46]
00495>                                                    [217.80, 512.50]
00496>                                                    [218.95, 513.00]
00497>                                                    [221.30, 513.50]
00498>                                                    [221.70, 513.71]
00499>                                                    [230.40, 513.71]
00500>                                                    [243.80, 514.00]
00501>                                                    [249.40, 514.12]
00502>                                                    [259.50, 514.28]
00503>                                                    [266.50, 514.50]
00504> *%-----------------|-------------------------------------------------------|
00505> CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
00506>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
00507>                     N=[3], TP=[0.64]hrs,
00508>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00509> *#-----------------|-------------------------------------------------------|
00510> ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
00511> *#-----------------|-------------------------------------------------------|
00512> ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
00513> *#-----------------|-------------------------------------------------------|
00514> SAVE HYD            ID=[7],   # OF PCYCLES=[1],  ICASEsh=[-1]
00515>                     HYD_FILENAME=["C10yTUT.txt"]
00516>                     HYD_COMMENT=["Total FLow in Unnamed Tributary in 10yr CHI"]
00517> *%-----------------|-------------------------------------------------------|
00518> SAVE HYD            ID=[8],   # OF PCYCLES=[1],  ICASEsh=[-1]
00519>                     HYD_FILENAME=["C10yTFD.txt"]
00520>                     HYD_COMMENT=["Total FLow in Foley Drain in 10yr CHI"]
00521> *%-----------------|-------------------------------------------------------|
00522> *#-----------------|-------------------------------------------------------|
00523>
00524> *#-----------------------------------------------------------------------------|
00525> *#                 2222  5555   Y   Y  RRRR       CCCC  H   H  IIIII          |
00526> *#                    2  5       Y Y   R   R     C      H   H    I            |
00527> *#                 2222  5555     Y    RRRR      C      HHHHH    I            |
00528> *#                 2        5     Y    R  R      C      H   H    I            |
00529> *#                 2222  5555     Y    R   R      CCCC  H   H  IIIII          |
00530> *#-----------------------------------------------------------------------------|
00531> *#*****************************************************************************
00532> *#                              25-YEAR, 3 HOUR CHICAGO STORM
00533> *#*****************************************************************************
00534> *#-----------------|-------------------------------------------------------|
00535> CHICAGO STORM       IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
00536>                     ICASEcs=[2],
00537>                     Enter ordinates of IDF curve below, at least seven points
00538>                         TIME (min)    Intensity(mm/hr)
00539>                           [5]         [220.5]
00540>                           [10]        [136.4]
```

```
00541>                              [15]        [103.0]
00542>                              [30]        [63.7]
00543>                              [60]        [39.4]
00544>                              [120]       [24.4]
00545>                              [360]       [11.4]
00546>                              [720]       [7.0]
00547>                              [1440]      [4.4]
00548>                                 -1           -1
00549> *#-----------------|-------------------------------------------------------------|
00550> *#-----------------|--------------- West Catchment Area ----------------------|
00551> *#-----------------|--------------- Unnamed Tributary ---------------------------|
00552> *%-----------------|-------------------------------------------------------------|
00553> CALIB NASHYD       ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
00554>                    DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
00555>                    N=[3], TP=[0.57]hrs,
00556>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00557> *#-----------------|-------------------------------------------------------------|
00558> ROUTE CHANNEL      IDout=[2], NHYD=["SiteLag"], IDin=[1],
00559>                    RDT=[1](min),
00560>                    CHLGTH=[425](m),  CHSLOPE=[0.96](%),
00561>                                        FPSLOPE=[0.96](%),
00562>                    SECNUM=[1],       NSEG=[3]
00563>                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00564>                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00565>                                                   [ 48.0, 514.81]
00566>                                                   [ 60.0, 514.69]
00567>                                                   [ 68.5, 514.54]
00568>                                                   [ 75.5, 514.23]
00569>                                                   [ 76.0, 514.06]
00570>                                                   [ 77.5, 514.06]
00571>                                                   [ 78.5, 514.36]
00572>                                                   [ 79.5, 514.39]
00573>                                                   [ 92.5, 514.49]
00574>                                                   [103.5, 514.51]
00575>                                                   [118.5, 514.67]
00576>                                                   [130.5, 514.50]
00577>                                                   [151.0, 515.00]
00578> *%-----------------|-------------------------------------------------------------|
00579> CALIB NASHYD       ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
00580>                    DWF=[0](cms),  CN/C=[74], IA=[7](mm),
00581>                    N=[3], TP=[0.75]hrs,
00582>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00583> *#-----------------|-------------------------------------------------------------|
00584> ADD HYD            IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00585> *#-----------------|-------------------------------------------------------------|
00586> ROUTE CHANNEL      IDout=[5], NHYD=["DS Lag"], IDin=[4],
00587>                    RDT=[1](min),
00588>                    CHLGTH=[150](m),  CHSLOPE=[0.96](%),
00589>                                        FPSLOPE=[0.96](%),
00590>                    SECNUM=[1],       NSEG=[3]
00591>                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00592>                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00593>                                                   [ 48.0, 514.81]
00594>                                                   [ 60.0, 514.69]
00595>                                                   [ 68.5, 514.54]
00596>                                                   [ 75.5, 514.23]
00597>                                                   [ 76.0, 514.06]
00598>                                                   [ 77.5, 514.06]
00599>                                                   [ 78.5, 514.36]
00600>                                                   [ 79.5, 514.39]
00601>                                                   [ 92.5, 514.49]
00602>                                                   [103.5, 514.51]
00603>                                                   [118.5, 514.67]
00604>                                                   [130.5, 514.50]
00605>                                                   [151.0, 515.00]
00606> *%-----------------|-------------------------------------------------------------|
00607> CALIB NASHYD       ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
00608>                    DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
00609>                    N=[3], TP=[0.47]hrs,
00610>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00611> *#-----------------|-------------------------------------------------------------|
00612> ADD HYD            IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
00613> *#-----------------|-------------------------------------------------------------|
00614>
00615> *#-----------------|-------------------------------------------------------------|
00616> *#-----------------|--------------- East Catchment Area ----------------------|
00617> *%-----------------|-------------------------------------------------------------|
00618> CALIB NASHYD       ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
00619>                    DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
00620>                    N=[3], TP=[1.87]hrs,
00621>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00622> *%-----------------|-------------------------------------------------------------|
00623> ROUTE CHANNEL      IDout=[2], NHYD=["SiteLag"], IDin=[1],
00624>                    RDT=[1](min),
00625>                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00626>                                        FPSLOPE=[0.65](%),
00627>                    SECNUM=[1],       NSEG=[3]
00628>                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00629>                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00630>                                                   [196.60, 514.00]
00631>                                                   [215.60, 513.59]
00632>                                                   [216.55, 513.00]
00633>                                                   [217.20, 512.50]
00634>                                                   [217.45, 512.46]
00635>                                                   [217.80, 512.50]
00636>                                                   [218.95, 513.00]
00637>                                                   [221.30, 513.50]
00638>                                                   [221.70, 513.71]
00639>                                                   [230.40, 513.71]
00640>                                                   [243.80, 514.00]
00641>                                                   [249.40, 514.12]
00642>                                                   [259.50, 514.28]
00643>                                                   [266.50, 514.50]
00644> *%-----------------|-------------------------------------------------------------|
00645> CALIB NASHYD       ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
00646>                    DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
00647>                    N=[3], TP=[0.64]hrs,
00648>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00649> *#-----------------|-------------------------------------------------------------|
00650> ADD HYD            IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00651> *#-----------------|-------------------------------------------------------------|
00652> ROUTE CHANNEL      IDout=[5], NHYD=["DS Lag"], IDin=[4],
00653>                    RDT=[1](min),
00654>                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00655>                                        FPSLOPE=[0.65](%),
00656>                    SECNUM=[1],       NSEG=[3]
00657>                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00658>                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00659>                                                   [196.60, 514.00]
00660>                                                   [215.60, 513.59]
00661>                                                   [216.55, 513.00]
00662>                                                   [217.20, 512.50]
00663>                                                   [217.45, 512.46]
00664>                                                   [217.80, 512.50]
00665>                                                   [218.95, 513.00]
00666>                                                   [221.30, 513.50]
00667>                                                   [221.70, 513.71]
00668>                                                   [230.40, 513.71]
00669>                                                   [243.80, 514.00]
00670>                                                   [249.40, 514.12]
00671>                                                   [259.50, 514.28]
00672>                                                   [266.50, 514.50]
00673> *%-----------------|-------------------------------------------------------------|
00674> CALIB NASHYD       ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
00675>                    DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
00676>                    N=[3], TP=[0.64]hrs,
00677>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00678> *#-----------------|-------------------------------------------------------------|
00679> ADD HYD            IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
00680> *#-----------------|-------------------------------------------------------------|
00681> ADD HYD            IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
00682> *#-----------------|-------------------------------------------------------------|
00683> SAVE HYD           ID=[7],   # OF PCYCLES=[1],  ICASEsh=[-1]
00684>                    HYD_FILENAME=["C10yTUT.txt"]
00685>                    HYD_COMMENT=["Total FLow in Unnamed Tributary in 10yr CHI"]
00686> *%-----------------|-------------------------------------------------------------|
00687> SAVE HYD           ID=[8],   # OF PCYCLES=[1],  ICASEsh=[-1]
00688>                    HYD_FILENAME=["C10yTFD.txt"]
00689>                    HYD_COMMENT=["Total FLow in Foley Drain in 10yr CHI"]
00690> *%-----------------|-------------------------------------------------------------|
00691>
00692> *#-----------------|-------------------------------------------------------------|
00693> *#-----------------|-------------------------------------------------------------|
00694> *#                5555  000   Y   Y  RRRR       CCCC  H   H  IIIII              |
00695> *#                5    0   0   Y Y   R   R     C      H   H    I                |
00696> *#                5555 0   0    Y    RRRR      C      HHHHH    I                |
00697> *#                   5 0   0    Y    R  R      C      H   H    I                |
00698> *#                5555  000     Y    R   R      CCCC  H   H  IIIIII             |
00699> *#-----------------|-------------------------------------------------------------|
00700> *#*****************************************************************************
00701> *#                            50-YEAR, 3 HOUR CHICAGO STORM
00702> *#*****************************************************************************
00703> *#-----------------|-------------------------------------------------------------|
00704> CHICAGO STORM      IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
00705>                    ICASEcs=[2],
00706>                    Enter ordinates of IDF curve below, at least seven points
00707>                        TIME (min)    Intensity(mm/hr)
00708>                          [5]         [245.1]
00709>                          [10]        [151.7]
00710>                          [15]        [114.6]
00711>                          [30]        [70.9]
00712>                          [60]        [43.9]
00713>                          [120]       [27.2]
00714>                          [360]       [12.7]
00715>                          [720]       [7.9]
00716>                          [1440]      [4.9]
00717>                             -1           -1
00718> *#-----------------|-------------------------------------------------------------|
00719> *#-----------------|-------------------------------------------------------------|
00720> *#-----------------|--------------- West Catchment Area ----------------------|
00721> *#-----------------|--------------- Unnamed Tributary ---------------------------|
00722> *%-----------------|-------------------------------------------------------------|
00723> CALIB NASHYD       ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
00724>                    DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
00725>                    N=[3], TP=[0.57]hrs,
00726>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00727> *#-----------------|-------------------------------------------------------------|
00728> ROUTE CHANNEL      IDout=[2], NHYD=["SiteLag"], IDin=[1],
00729>                    RDT=[1](min),
00730>                    CHLGTH=[425](m),  CHSLOPE=[0.96](%),
00731>                                        FPSLOPE=[0.96](%),
00732>                    SECNUM=[1],       NSEG=[3]
00733>                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00734>                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00735>                                                   [ 48.0, 514.81]
00736>                                                   [ 60.0, 514.69]
00737>                                                   [ 68.5, 514.54]
00738>                                                   [ 75.5, 514.23]
00739>                                                   [ 76.0, 514.06]
00740>                                                   [ 77.5, 514.06]
00741>                                                   [ 78.5, 514.36]
00742>                                                   [ 79.5, 514.39]
00743>                                                   [ 92.5, 514.49]
00744>                                                   [103.5, 514.51]
00745>                                                   [118.5, 514.67]
00746>                                                   [130.5, 514.50]
00747>                                                   [151.0, 515.00]
00748> *%-----------------|-------------------------------------------------------------|
00749> CALIB NASHYD       ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
00750>                    DWF=[0](cms),  CN/C=[74], IA=[7](mm),
00751>                    N=[3], TP=[0.75]hrs,
00752>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00753> *#-----------------|-------------------------------------------------------------|
00754> ADD HYD            IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00755> *#-----------------|-------------------------------------------------------------|
00756> ROUTE CHANNEL      IDout=[5], NHYD=["DS Lag"], IDin=[4],
00757>                    RDT=[1](min),
00758>                    CHLGTH=[150](m),  CHSLOPE=[0.96](%),
00759>                                        FPSLOPE=[0.96](%),
00760>                    SECNUM=[1],       NSEG=[3]
00761>                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00762>                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00763>                                                   [ 48.0, 514.81]
00764>                                                   [ 60.0, 514.69]
00765>                                                   [ 68.5, 514.54]
00766>                                                   [ 75.5, 514.23]
00767>                                                   [ 76.0, 514.06]
00768>                                                   [ 77.5, 514.06]
00769>                                                   [ 78.5, 514.36]
00770>                                                   [ 79.5, 514.39]
00771>                                                   [ 92.5, 514.49]
00772>                                                   [103.5, 514.51]
00773>                                                   [118.5, 514.67]
00774>                                                   [130.5, 514.50]
00775>                                                   [151.0, 515.00]
00776> *%-----------------|-------------------------------------------------------------|
00777> CALIB NASHYD       ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
00778>                    DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
00779>                    N=[3], TP=[0.47]hrs,
00780>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00781> *#-----------------|-------------------------------------------------------------|
00782> ADD HYD            IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
00783> *#-----------------|-------------------------------------------------------------|
00784>
00785> *#-----------------|-------------------------------------------------------------|
00786> *#-----------------|--------------- East Catchment Area ----------------------|
00787> *%-----------------|-------------------------------------------------------------|
00788> CALIB NASHYD       ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
00789>                    DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
00790>                    N=[3], TP=[1.87]hrs,
00791>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00792> *%-----------------|-------------------------------------------------------------|
00793> ROUTE CHANNEL      IDout=[2], NHYD=["SiteLag"], IDin=[1],
00794>                    RDT=[1](min),
00795>                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00796>                                        FPSLOPE=[0.65](%),
00797>                    SECNUM=[1],       NSEG=[3]
00798>                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00799>                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00800>                                                   [196.60, 514.00]
00801>                                                   [215.60, 513.59]
00802>                                                   [216.55, 513.00]
00803>                                                   [217.20, 512.50]
00804>                                                   [217.45, 512.46]
00805>                                                   [217.80, 512.50]
00806>                                                   [218.95, 513.00]
00807>                                                   [221.30, 513.50]
00808>                                                   [221.70, 513.71]
00809>                                                   [230.40, 513.71]
00810>                                                   [243.80, 514.00]
```

```
00811>                                                  [249.40, 514.12]
00812>                                                  [259.50, 514.28]
00813>                                                  [266.50, 514.50]
00814> *%-----------------|-------------------------------------------------------------|
00815> CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
00816>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
00817>                     N=[3], TP=[0.64]hrs,
00818>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00819> *#-----------------|-------------------------------------------------------------|
00820> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00821> *#-----------------|-------------------------------------------------------------|
00822> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
00823>                     RDT=[1](min),
00824>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00825>                                         FPSLOPE=[0.65](%),
00826>                     SECNUM=[1],       NSEG=[3]
00827>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00828>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00829>                                                  [196.60, 514.00]
00830>                                                  [215.60, 513.59]
00831>                                                  [216.55, 513.00]
00832>                                                  [217.20, 512.50]
00833>                                                  [217.45, 512.46]
00834>                                                  [217.80, 512.50]
00835>                                                  [218.95, 513.00]
00836>                                                  [221.30, 513.50]
00837>                                                  [221.70, 513.71]
00838>                                                  [230.40, 513.71]
00839>                                                  [243.80, 514.00]
00840>                                                  [249.40, 514.12]
00841>                                                  [259.50, 514.28]
00842>                                                  [266.50, 514.50]
00843> *%-----------------|-------------------------------------------------------------|
00844> CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
00845>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
00846>                     N=[3], TP=[0.64]hrs,
00847>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00848> *#-----------------|-------------------------------------------------------------|
00849> ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
00850> *#-----------------|-------------------------------------------------------------|
00851> ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
00852> *#-----------------|-------------------------------------------------------------|
00853> SAVE HYD            ID=[7],   # OF PCYCLES=[1],  ICASEsh=[-1]
00854>                     HYD_FILENAME=["C10yTUT.txt"]
00855>                     HYD_COMMENT=["Total FLow in Unnamed Tributary in 10yr CHI"]
00856> *%-----------------|-------------------------------------------------------------|
00857> SAVE HYD            ID=[8],   # OF PCYCLES=[1],  ICASEsh=[-1]
00858>                     HYD_FILENAME=["C10yTFD.txt"]
00859>                     HYD_COMMENT=["Total FLow in Foley Drain in 10yr CHI"]
00860> *%-----------------|-------------------------------------------------------------|
00861>
00862>
00863> *#----------------------------------------------------------------------------|
00864> *#            11    000    000   Y   Y  RRRR       CCCC  H   H  IIIII          |
00865> *#          1 1   0    0 0   0   Y Y   R   R     C      H   H    I            |
00866> *#            1   0    0 0   0    Y    RRRR      C      HHHHH    I            |
00867> *#            1   0    0 0   0    Y    R  R      C      H   H    I            |
00868> *#         11111  000    000     Y    R   R      CCCC  H   H  IIIII          |
00869> *#----------------------------------------------------------------------------|
00870> *#****************************************************************************
00871> *#                            100-YEAR, 3 HOUR CHICAGO STORM
00872> *#****************************************************************************
00873> *#-----------------|-------------------------------------------------------------|
00874> CHICAGO STORM       IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
00875>                     ICASEcs=[2],
00876>                     Enter ordinates of IDF curve below, at least seven points
00877>                         TIME (min)    Intensity(mm/hr)
00878>                           [5]         [270.2]
00879>                           [10]        [167.2]
00880>                           [15]        [126.3]
00881>                           [30]        [78.2]
00882>                           [60]        [48.4]
00883>                           [120]       [30.0]
00884>                           [360]       [14.0]
00885>                           [720]       [8.7]
00886>                           [1440]      [5.4]
00887>                              -1          -1
00888> *#-----------------|-------------------------------------------------------------|
00889> *#-----------------|--------------- West Catchment Area ----------------------|
00890> *#-----------------|--------------- Unnamed Tributary -----------------------|
00891> *%-----------------|-------------------------------------------------------------|
00892> CALIB NASHYD        ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
00893>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
00894>                     N=[3], TP=[0.57]hrs,
00895>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00896> *#-----------------|-------------------------------------------------------------|
00897> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
00898>                     RDT=[1](min),
00899>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
00900>                                         FPSLOPE=[0.96](%),
00901>                     SECNUM=[1],       NSEG=[3]
00902>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00903>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00904>                                                  [ 48.0, 514.81]
00905>                                                  [ 60.0, 514.69]
00906>                                                  [ 68.5, 514.54]
00907>                                                  [ 75.5, 514.23]
00908>                                                  [ 76.0, 514.06]
00909>                                                  [ 77.5, 514.06]
00910>                                                  [ 78.5, 514.36]
00911>                                                  [ 79.5, 514.39]
00912>                                                  [ 92.5, 514.49]
00913>                                                  [103.5, 514.51]
00914>                                                  [118.5, 514.67]
00915>                                                  [130.5, 514.50]
00916>                                                  [151.0, 515.00]
00917> *%-----------------|-------------------------------------------------------------|
00918> CALIB NASHYD        ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
00919>                     DWF=[0](cms),  CN/C=[74], IA=[7](mm),
00920>                     N=[3], TP=[0.75]hrs,
00921>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00922> *#-----------------|-------------------------------------------------------------|
00923> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00924> *#-----------------|-------------------------------------------------------------|
00925> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
00926>                     RDT=[1](min),
00927>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
00928>                                         FPSLOPE=[0.96](%),
00929>                     SECNUM=[1],       NSEG=[3]
00930>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
00931>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00932>                                                  [ 48.0, 514.81]
00933>                                                  [ 60.0, 514.69]
00934>                                                  [ 68.5, 514.54]
00935>                                                  [ 75.5, 514.23]
00936>                                                  [ 76.0, 514.06]
00937>                                                  [ 77.5, 514.06]
00938>                                                  [ 78.5, 514.36]
00939>                                                  [ 79.5, 514.39]
00940>                                                  [ 92.5, 514.49]
00941>                                                  [103.5, 514.51]
00942>                                                  [118.5, 514.67]
00943>                                                  [130.5, 514.50]
00944>                                                  [151.0, 515.00]
00945> *%-----------------|-------------------------------------------------------------|
00946> CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
00947>                     DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
00948>                     N=[3], TP=[0.47]hrs,
00949>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00950> *#-----------------|-------------------------------------------------------------|
00951> ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
00952> *#-----------------|-------------------------------------------------------------|
00953>
00954> *#-----------------|-------------------------------------------------------------|
00955> *#-----------------|--------------- East Catchment Area ----------------------|
00956> *%-----------------|-------------------------------------------------------------|
00957> CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
00958>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
00959>                     N=[3], TP=[1.87]hrs,
00960>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00961> *%-----------------|-------------------------------------------------------------|
00962> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
00963>                     RDT=[1](min),
00964>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00965>                                         FPSLOPE=[0.65](%),
00966>                     SECNUM=[1],       NSEG=[3]
00967>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00968>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00969>                                                  [196.60, 514.00]
00970>                                                  [215.60, 513.59]
00971>                                                  [216.55, 513.00]
00972>                                                  [217.20, 512.50]
00973>                                                  [217.45, 512.46]
00974>                                                  [217.80, 512.50]
00975>                                                  [218.95, 513.00]
00976>                                                  [221.30, 513.50]
00977>                                                  [221.70, 513.71]
00978>                                                  [230.40, 513.71]
00979>                                                  [243.80, 514.00]
00980>                                                  [249.40, 514.12]
00981>                                                  [259.50, 514.28]
00982>                                                  [266.50, 514.50]
00983> *%-----------------|-------------------------------------------------------------|
00984> CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
00985>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
00986>                     N=[3], TP=[0.64]hrs,
00987>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00988> *#-----------------|-------------------------------------------------------------|
00989> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
00990> *#-----------------|-------------------------------------------------------------|
00991> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
00992>                     RDT=[1](min),
00993>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00994>                                         FPSLOPE=[0.65](%),
00995>                     SECNUM=[1],       NSEG=[3]
00996>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
00997>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00998>                                                  [196.60, 514.00]
00999>                                                  [215.60, 513.59]
01000>                                                  [216.55, 513.00]
01001>                                                  [217.20, 512.50]
01002>                                                  [217.45, 512.46]
01003>                                                  [217.80, 512.50]
01004>                                                  [218.95, 513.00]
01005>                                                  [221.30, 513.50]
01006>                                                  [221.70, 513.71]
01007>                                                  [230.40, 513.71]
01008>                                                  [243.80, 514.00]
01009>                                                  [249.40, 514.12]
01010>                                                  [259.50, 514.28]
01011>                                                  [266.50, 514.50]
01012> *%-----------------|-------------------------------------------------------------|
01013> CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
01014>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
01015>                     N=[3], TP=[0.64]hrs,
01016>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01017> *#-----------------|-------------------------------------------------------------|
01018> ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
01019> *#-----------------|-------------------------------------------------------------|
01020> ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
01021> *#-----------------|-------------------------------------------------------------|
01022> SAVE HYD            ID=[7],   # OF PCYCLES=[1],  ICASEsh=[-1]
01023>                     HYD_FILENAME=["C100yTUT.txt"]
01024>                     HYD_COMMENT=["Total FLow in Unnamed Tributary in 100yr CHI"]
01025> *%-----------------|-------------------------------------------------------------|
01026> SAVE HYD            ID=[8],   # OF PCYCLES=[1],  ICASEsh=[-1]
01027>                     HYD_FILENAME=["C100yTFD.txt"]
01028>                     HYD_COMMENT=["Total FLow in Foley Drain in 100yr CHI"]
01029> *%-----------------|-------------------------------------------------------------|
01030> *#-----------------|-------------------------------------------------------------|
01031>
01032>
01033>
01034> *%-----------------|-------------------------------------------------------------|
01035> *#----------------------------------------------------------------------------|
01036> *#                    2222   Y    Y  RRRR       SSSS   CCCC   SSSS              |
01037> *#                       2    Y Y   R   R     S      C      S                  |
01038> *#                    2222     Y    RRRR       SSSS  C       SSSS              |
01039> *#                    2        Y    R  R           S C           S             |
01040> *#                    2222     Y    R   R      SSSS   CCCC   SSSS              |
01041> *#----------------------------------------------------------------------------|
01042> *#-----------------|-------------------------------------------------------------|
01043> *#-----------------|----------- 2 YEAR ---------------------------------------|
01044> *#-----------------|-------------------------------------------------------------|
01045> MASS STORM          PTOTAL=[55.5](mm), CSDT=[15](min),
01046>                     CURVE_FILENAME=["SCS24H.MST"]
01047> *#-----------------|-------------------------------------------------------------|
01048> *#-----------------|--------------- West Catchment Area ----------------------|
01049> *#-----------------|--------------- Unnamed Tributary -----------------------|
01050> *%-----------------|-------------------------------------------------------------|
01051> CALIB NASHYD        ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
01052>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
01053>                     N=[3], TP=[0.57]hrs,
01054>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01055> *#-----------------|-------------------------------------------------------------|
01056> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
01057>                     RDT=[1](min),
01058>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
01059>                                         FPSLOPE=[0.96](%),
01060>                     SECNUM=[1],       NSEG=[3]
01061>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
01062>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01063>                                                  [ 48.0, 514.81]
01064>                                                  [ 60.0, 514.69]
01065>                                                  [ 68.5, 514.54]
01066>                                                  [ 75.5, 514.23]
01067>                                                  [ 76.0, 514.06]
01068>                                                  [ 77.5, 514.06]
01069>                                                  [ 78.5, 514.36]
01070>                                                  [ 79.5, 514.39]
01071>                                                  [ 92.5, 514.49]
01072>                                                  [103.5, 514.51]
01073>                                                  [118.5, 514.67]
01074>                                                  [130.5, 514.50]
01075>                                                  [151.0, 515.00]
01076> *%-----------------|-------------------------------------------------------------|
01077> CALIB NASHYD        ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
01078>                     DWF=[0](cms),  CN/C=[74], IA=[7](mm),
01079>                     N=[3], TP=[0.75]hrs,
01080>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
```

```
01081> *#-----------------|-------------------------------------------------------|
01082> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
01083> *#-----------------|-------------------------------------------------------|
01084> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
01085>                     RDT=[1](min),
01086>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
01087>                                         FPSLOPE=[0.96](%),
01088>                     SECNUM=[1],        NSEG=[3]
01089>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
01090>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01091>                                                    [ 48.0, 514.81]
01092>                                                    [ 60.0, 514.69]
01093>                                                    [ 68.5, 514.54]
01094>                                                    [ 75.5, 514.23]
01095>                                                    [ 76.0, 514.06]
01096>                                                    [ 77.5, 514.06]
01097>                                                    [ 78.5, 514.36]
01098>                                                    [ 79.5, 514.39]
01099>                                                    [ 92.5, 514.49]
01100>                                                    [103.5, 514.51]
01101>                                                    [118.5, 514.67]
01102>                                                    [130.5, 514.50]
01103>                                                    [151.0, 515.00]
01104> *%-----------------|-------------------------------------------------------|
01105> CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
01106>                     DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
01107>                     N=[3], TP=[0.47]hrs,
01108>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01109> *#-----------------|-------------------------------------------------------|
01110> ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
01111> *#-----------------|-------------------------------------------------------|
01112>
01113> *#-----------------|-------------------------------------------------------|
01114> *#-----------------|---------------- East Catchment Area ----------------------|
01115> *%-----------------|-------------------------------------------------------|
01116> CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
01117>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
01118>                     N=[3], TP=[1.87]hrs,
01119>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01120> *%-----------------|-------------------------------------------------------|
01121> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
01122>                     RDT=[1](min),
01123>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
01124>                                         FPSLOPE=[0.65](%),
01125>                     SECNUM=[1],        NSEG=[3]
01126>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
01127>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
01128>                                                    [196.60, 514.00]
01129>                                                    [215.60, 513.59]
01130>                                                    [216.55, 513.00]
01131>                                                    [217.20, 512.50]
01132>                                                    [217.45, 512.46]
01133>                                                    [217.80, 512.50]
01134>                                                    [218.95, 513.00]
01135>                                                    [221.30, 513.50]
01136>                                                    [221.70, 513.71]
01137>                                                    [230.40, 513.71]
01138>                                                    [243.80, 514.00]
01139>                                                    [249.40, 514.12]
01140>                                                    [259.50, 514.28]
01141>                                                    [266.50, 514.50]
01142> *%-----------------|-------------------------------------------------------|
01143> CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
01144>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
01145>                     N=[3], TP=[0.64]hrs,
01146>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01147> *#-----------------|-------------------------------------------------------|
01148> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
01149> *#-----------------|-------------------------------------------------------|
01150> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
01151>                     RDT=[1](min),
01152>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
01153>                                         FPSLOPE=[0.65](%),
01154>                     SECNUM=[1],        NSEG=[3]
01155>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
01156>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
01157>                                                    [196.60, 514.00]
01158>                                                    [215.60, 513.59]
01159>                                                    [216.55, 513.00]
01160>                                                    [217.20, 512.50]
01161>                                                    [217.45, 512.46]
01162>                                                    [217.80, 512.50]
01163>                                                    [218.95, 513.00]
01164>                                                    [221.30, 513.50]
01165>                                                    [221.70, 513.71]
01166>                                                    [230.40, 513.71]
01167>                                                    [243.80, 514.00]
01168>                                                    [249.40, 514.12]
01169>                                                    [259.50, 514.28]
01170>                                                    [266.50, 514.50]
01171> *%-----------------|-------------------------------------------------------|
01172> CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
01173>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
01174>                     N=[3], TP=[0.64]hrs,
01175>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01176> *#-----------------|-------------------------------------------------------|
01177> ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
01178> *#-----------------|-------------------------------------------------------|
01179> ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
01180> *#-----------------|-------------------------------------------------------|
01181> SAVE HYD            ID=[7],   # OF PCYCLES=[1],  ICASEsh=[-1]
01182>                     HYD_FILENAME=["S2yTUT.txt"]
01183>                     HYD_COMMENT=["Total FLow in Unnamed Tributary in 2yr SCS"]
01184> *%-----------------|-------------------------------------------------------|
01185> SAVE HYD            ID=[8],   # OF PCYCLES=[1],  ICASEsh=[-1]
01186>                     HYD_FILENAME=["S2yTFD.txt"]
01187>                     HYD_COMMENT=["Total FLow in Foley Drain in 2yr SCS"]
01188> *%-----------------|-------------------------------------------------------|
01189> *#-----------------|-------------------------------------------------------|
01190>
01191> *#-----------------------------------------------------------------------|
01192> *#                   5555   Y   Y  RRRR       SSSS   CCCC   SSSS            |
01193> *#                   5       Y Y   R   R     S      C       S               |
01194> *#                   5555     Y    RRRR       SSSS  C        SSSS           |
01195> *#                       5    Y    R  R            S C            S        |
01196> *#                   5555     Y    R   R      SSSS   CCCC   SSSS            |
01197> *#-----------------|-----------------------------------------------------|
01198> *#-----------------|-----------------------------------------------------|
01199> *#-----------------|---------- 5 YEAR ----------------------------------|
01200> *#-----------------|-----------------------------------------------------|
01201> MASS STORM          PTOTAL=[75.1](mm), CSDT=[15](min),
01202>                     CURVE_FILENAME=["SCS24H.MST"]
01203> *#-----------------|-------------------------------------------------------|
01204> *#-----------------|-------------------------------------------------------|
01205> *#-----------------|---------------- West Catchment Area ----------------------|
01206> *#-----------------|---------------- Unnamed Tributary ----------------------|
01207> *%-----------------|-------------------------------------------------------|
01208> CALIB NASHYD        ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
01209>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
01210>                     N=[3], TP=[0.57]hrs,
01211>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01212> *#-----------------|-------------------------------------------------------|
01213> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
01214>                     RDT=[1](min),
01215>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
01216>                                         FPSLOPE=[0.96](%),
01217>                     SECNUM=[1],        NSEG=[3]
01218>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
01219>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01220>                                                    [ 48.0, 514.81]
01221>                                                    [ 60.0, 514.69]
01222>                                                    [ 68.5, 514.54]
01223>                                                    [ 75.5, 514.23]
01224>                                                    [ 76.0, 514.06]
01225>                                                    [ 77.5, 514.06]
01226>                                                    [ 78.5, 514.36]
01227>                                                    [ 79.5, 514.39]
01228>                                                    [ 92.5, 514.49]
01229>                                                    [103.5, 514.51]
01230>                                                    [118.5, 514.67]
01231>                                                    [130.5, 514.50]
01232>                                                    [151.0, 515.00]
01233> *%-----------------|-------------------------------------------------------|
01234> CALIB NASHYD        ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
01235>                     DWF=[0](cms),  CN/C=[74], IA=[7](mm),
01236>                     N=[3], TP=[0.75]hrs,
01237>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01238> *#-----------------|-------------------------------------------------------|
01239> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
01240> *#-----------------|-------------------------------------------------------|
01241> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
01242>                     RDT=[1](min),
01243>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
01244>                                         FPSLOPE=[0.96](%),
01245>                     SECNUM=[1],        NSEG=[3]
01246>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
01247>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01248>                                                    [ 48.0, 514.81]
01249>                                                    [ 60.0, 514.69]
01250>                                                    [ 68.5, 514.54]
01251>                                                    [ 75.5, 514.23]
01252>                                                    [ 76.0, 514.06]
01253>                                                    [ 77.5, 514.06]
01254>                                                    [ 78.5, 514.36]
01255>                                                    [ 79.5, 514.39]
01256>                                                    [ 92.5, 514.49]
01257>                                                    [103.5, 514.51]
01258>                                                    [118.5, 514.67]
01259>                                                    [130.5, 514.50]
01260>                                                    [151.0, 515.00]
01261> *%-----------------|-------------------------------------------------------|
01262> CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
01263>                     DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
01264>                     N=[3], TP=[0.47]hrs,
01265>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01266> *#-----------------|-------------------------------------------------------|
01267> ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
01268> *#-----------------|-------------------------------------------------------|
01269>
01270> *#-----------------|-------------------------------------------------------|
01271> *#-----------------|---------------- East Catchment Area ----------------------|
01272> *%-----------------|-------------------------------------------------------|
01273> CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
01274>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
01275>                     N=[3], TP=[1.87]hrs,
01276>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01277> *%-----------------|-------------------------------------------------------|
01278> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
01279>                     RDT=[1](min),
01280>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
01281>                                         FPSLOPE=[0.65](%),
01282>                     SECNUM=[1],        NSEG=[3]
01283>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
01284>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
01285>                                                    [196.60, 514.00]
01286>                                                    [215.60, 513.59]
01287>                                                    [216.55, 513.00]
01288>                                                    [217.20, 512.50]
01289>                                                    [217.45, 512.46]
01290>                                                    [217.80, 512.50]
01291>                                                    [218.95, 513.00]
01292>                                                    [221.30, 513.50]
01293>                                                    [221.70, 513.71]
01294>                                                    [230.40, 513.71]
01295>                                                    [243.80, 514.00]
01296>                                                    [249.40, 514.12]
01297>                                                    [259.50, 514.28]
01298>                                                    [266.50, 514.50]
01299> *%-----------------|-------------------------------------------------------|
01300> CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
01301>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
01302>                     N=[3], TP=[0.64]hrs,
01303>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01304> *#-----------------|-------------------------------------------------------|
01305> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
01306> *#-----------------|-------------------------------------------------------|
01307> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
01308>                     RDT=[1](min),
01309>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
01310>                                         FPSLOPE=[0.65](%),
01311>                     SECNUM=[1],        NSEG=[3]
01312>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
01313>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
01314>                                                    [196.60, 514.00]
01315>                                                    [215.60, 513.59]
01316>                                                    [216.55, 513.00]
01317>                                                    [217.20, 512.50]
01318>                                                    [217.45, 512.46]
01319>                                                    [217.80, 512.50]
01320>                                                    [218.95, 513.00]
01321>                                                    [221.30, 513.50]
01322>                                                    [221.70, 513.71]
01323>                                                    [230.40, 513.71]
01324>                                                    [243.80, 514.00]
01325>                                                    [249.40, 514.12]
01326>                                                    [259.50, 514.28]
01327>                                                    [266.50, 514.50]
01328> *%-----------------|-------------------------------------------------------|
01329> CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
01330>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
01331>                     N=[3], TP=[0.64]hrs,
01332>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01333> *#-----------------|-------------------------------------------------------|
01334> ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
01335> *#-----------------|-------------------------------------------------------|
01336> ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
01337> *#-----------------|-------------------------------------------------------|
01338> SAVE HYD            ID=[7],   # OF PCYCLES=[1],  ICASEsh=[-1]
01339>                     HYD_FILENAME=["S2yTUT.txt"]
01340>                     HYD_COMMENT=["Total FLow in Unnamed Tributary in 2yr SCS"]
01341> *%-----------------|-------------------------------------------------------|
01342> SAVE HYD            ID=[8],   # OF PCYCLES=[1],  ICASEsh=[-1]
01343>                     HYD_FILENAME=["S2yTFD.txt"]
01344>                     HYD_COMMENT=["Total FLow in Foley Drain in 2yr SCS"]
01345> *%-----------------|-------------------------------------------------------|
01346> *#-----------------|-------------------------------------------------------|
01347>
01348>
01349> *#-----------------------------------------------------------------------|
01350> *#               11     000   Y   Y  RRRR       SSSS   CCCC   SSSS            |
```

```
01351> *#              1 1    0   0   Y Y   R   R     S      C      S                |
01352> *#                1    0   0    Y    RRRR       SSSS  C        SSSS            |
01353> *#                1    0   0    Y    R  R           S C           S            |
01354> *#               11111   000     Y    R   R      SSSS   CCCC   SSSS            |
01355> *#-----------------------------------------------------------------------------|
01356> *#-----------------|-----------------------------------------------------------|
01357> *#-----------------|-------- 10 YEAR ---------------------------------------|
01358> *#-----------------|-----------------------------------------------------------|
01359> MASS STORM          PTOTAL=[88.1](mm), CSDT=[15](min),
01360>                     CURVE_FILENAME=["SCS24H.MST"]
01361> *#-----------------|-----------------------------------------------------------|
01362> *#-----------------|---------------- West Catchment Area ----------------------|
01363> *#-----------------|---------------- Unnamed Tributary ----------------------|
01364> *%-----------------|-----------------------------------------------------------|
01365> CALIB NASHYD        ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
01366>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
01367>                     N=[3], TP=[0.57]hrs,
01368>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01369> *#-----------------|-----------------------------------------------------------|
01370> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
01371>                     RDT=[1](min),
01372>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
01373>                                         FPSLOPE=[0.96](%),
01374>                     SECNUM=[1],       NSEG=[3]
01375>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
01376>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01377>                                                    [ 48.0, 514.81]
01378>                                                    [ 60.0, 514.69]
01379>                                                    [ 68.5, 514.54]
01380>                                                    [ 75.5, 514.23]
01381>                                                    [ 76.0, 514.06]
01382>                                                    [ 77.5, 514.06]
01383>                                                    [ 78.5, 514.36]
01384>                                                    [ 79.5, 514.39]
01385>                                                    [ 92.5, 514.49]
01386>                                                    [103.5, 514.51]
01387>                                                    [118.5, 514.67]
01388>                                                    [130.5, 514.50]
01389>                                                    [151.0, 515.00]
01390> *%-----------------|-----------------------------------------------------------|
01391> CALIB NASHYD        ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
01392>                     DWF=[0](cms),  CN/C=[74], IA=[7](mm),
01393>                     N=[3], TP=[0.75]hrs,
01394>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01395> *#-----------------|-----------------------------------------------------------|
01396> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
01397> *#-----------------|-----------------------------------------------------------|
01398> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
01399>                     RDT=[1](min),
01400>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
01401>                                         FPSLOPE=[0.96](%),
01402>                     SECNUM=[1],       NSEG=[3]
01403>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
01404>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01405>                                                    [ 48.0, 514.81]
01406>                                                    [ 60.0, 514.69]
01407>                                                    [ 68.5, 514.54]
01408>                                                    [ 75.5, 514.23]
01409>                                                    [ 76.0, 514.06]
01410>                                                    [ 77.5, 514.06]
01411>                                                    [ 78.5, 514.36]
01412>                                                    [ 79.5, 514.39]
01413>                                                    [ 92.5, 514.49]
01414>                                                    [103.5, 514.51]
01415>                                                    [118.5, 514.67]
01416>                                                    [130.5, 514.50]
01417>                                                    [151.0, 515.00]
01418> *%-----------------|-----------------------------------------------------------|
01419> CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
01420>                     DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
01421>                     N=[3], TP=[0.47]hrs,
01422>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01423> *#-----------------|-----------------------------------------------------------|
01424> ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
01425> *#-----------------|-----------------------------------------------------------|
01426>
01427> *#-----------------|-----------------------------------------------------------|
01428> *#-----------------|--------------- East Catchment Area ----------------------|
01429> *%-----------------|-----------------------------------------------------------|
01430> CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
01431>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
01432>                     N=[3], TP=[1.87]hrs,
01433>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01434> *%-----------------|-----------------------------------------------------------|
01435> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
01436>                     RDT=[1](min),
01437>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
01438>                                         FPSLOPE=[0.65](%),
01439>                     SECNUM=[1],       NSEG=[3]
01440>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
01441>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
01442>                                                    [196.60, 514.00]
01443>                                                    [215.60, 513.59]
01444>                                                    [216.55, 513.00]
01445>                                                    [217.20, 512.50]
01446>                                                    [217.45, 512.46]
01447>                                                    [217.80, 512.50]
01448>                                                    [218.95, 513.00]
01449>                                                    [221.30, 513.50]
01450>                                                    [221.70, 513.71]
01451>                                                    [230.40, 513.71]
01452>                                                    [243.80, 514.00]
01453>                                                    [249.40, 514.12]
01454>                                                    [259.50, 514.28]
01455>                                                    [266.50, 514.50]
01456> *%-----------------|-----------------------------------------------------------|
01457> CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
01458>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
01459>                     N=[3], TP=[0.64]hrs,
01460>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01461> *#-----------------|-----------------------------------------------------------|
01462> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
01463> *#-----------------|-----------------------------------------------------------|
01464> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
01465>                     RDT=[1](min),
01466>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
01467>                                         FPSLOPE=[0.65](%),
01468>                     SECNUM=[1],       NSEG=[3]
01469>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
01470>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
01471>                                                    [196.60, 514.00]
01472>                                                    [215.60, 513.59]
01473>                                                    [216.55, 513.00]
01474>                                                    [217.20, 512.50]
01475>                                                    [217.45, 512.46]
01476>                                                    [217.80, 512.50]
01477>                                                    [218.95, 513.00]
01478>                                                    [221.30, 513.50]
01479>                                                    [221.70, 513.71]
01480>                                                    [230.40, 513.71]
01481>                                                    [243.80, 514.00]
01482>                                                    [249.40, 514.12]
01483>                                                    [259.50, 514.28]
01484>                                                    [266.50, 514.50]
01485> *%-----------------|-----------------------------------------------------------|
01486> CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
01487>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
01488>                     N=[3], TP=[0.64]hrs,
01489>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01490> *#-----------------|-----------------------------------------------------------|
01491> ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
01492> *#-----------------|-----------------------------------------------------------|
01493> ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
01494> *#-----------------|-----------------------------------------------------------|
01495> SAVE HYD            ID=[7],   # OF PCYCLES=[1],  ICASEsh=[-1]
01496>                     HYD_FILENAME=["S10yTUT.txt"]
01497>                     HYD_COMMENT=["Total FLow in Unnamed Tributary in 10yr SCS"]
01498> *%-----------------|-----------------------------------------------------------|
01499> SAVE HYD            ID=[8],   # OF PCYCLES=[1],  ICASEsh=[-1]
01500>                     HYD_FILENAME=["S10yTFD.txt"]
01501>                     HYD_COMMENT=["Total FLow in Foley Drain in 10yr SCS"]
01502> *%-----------------|-----------------------------------------------------------|
01503> *#-----------------|-----------------------------------------------------------|
01504>
01505> *#-----------------------------------------------------------------------------|
01506> *#               2222  5555   Y   Y  RRRR       SSSS   CCCC   SSSS             |
01507> *#                 2  5      Y Y   R    R     S      C      S                  |
01508> *#               2222  5555    Y    RRRR       SSSS  C        SSSS             |
01509> *#               2        5    Y    R  R           S C           S            |
01510> *#               2222  5555    Y    R   R      SSSS   CCCC   SSSS             |
01511> *#-----------------------------------------------------------------------------|
01512> *#-----------------|-----------------------------------------------------------|
01513> *#-----------------|----------- 25 YEAR ------------------------------------|
01514> *#-----------------|-----------------------------------------------------------|
01515> MASS STORM          PTOTAL=[104.5](mm), CSDT=[15](min),
01516>                     CURVE_FILENAME=["SCS24H.MST"]
01517> *#-----------------|-----------------------------------------------------------|
01518> *#-----------------|-----------------------------------------------------------|
01519> *#-----------------|---------------- West Catchment Area ----------------------|
01520> *#-----------------|---------------- Unnamed Tributary ----------------------|
01521> *%-----------------|-----------------------------------------------------------|
01522> CALIB NASHYD        ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
01523>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
01524>                     N=[3], TP=[0.57]hrs,
01525>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01526> *#-----------------|-----------------------------------------------------------|
01527> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
01528>                     RDT=[1](min),
01529>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
01530>                                         FPSLOPE=[0.96](%),
01531>                     SECNUM=[1],       NSEG=[3]
01532>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
01533>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01534>                                                    [ 48.0, 514.81]
01535>                                                    [ 60.0, 514.69]
01536>                                                    [ 68.5, 514.54]
01537>                                                    [ 75.5, 514.23]
01538>                                                    [ 76.0, 514.06]
01539>                                                    [ 77.5, 514.06]
01540>                                                    [ 78.5, 514.36]
01541>                                                    [ 79.5, 514.39]
01542>                                                    [ 92.5, 514.49]
01543>                                                    [103.5, 514.51]
01544>                                                    [118.5, 514.67]
01545>                                                    [130.5, 514.50]
01546>                                                    [151.0, 515.00]
01547> *%-----------------|-----------------------------------------------------------|
01548> CALIB NASHYD        ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
01549>                     DWF=[0](cms),  CN/C=[74], IA=[7](mm),
01550>                     N=[3], TP=[0.75]hrs,
01551>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01552> *#-----------------|-----------------------------------------------------------|
01553> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
01554> *#-----------------|-----------------------------------------------------------|
01555> ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
01556>                     RDT=[1](min),
01557>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
01558>                                         FPSLOPE=[0.96](%),
01559>                     SECNUM=[1],       NSEG=[3]
01560>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
01561>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01562>                                                    [ 48.0, 514.81]
01563>                                                    [ 60.0, 514.69]
01564>                                                    [ 68.5, 514.54]
01565>                                                    [ 75.5, 514.23]
01566>                                                    [ 76.0, 514.06]
01567>                                                    [ 77.5, 514.06]
01568>                                                    [ 78.5, 514.36]
01569>                                                    [ 79.5, 514.39]
01570>                                                    [ 92.5, 514.49]
01571>                                                    [103.5, 514.51]
01572>                                                    [118.5, 514.67]
01573>                                                    [130.5, 514.50]
01574>                                                    [151.0, 515.00]
01575> *%-----------------|-----------------------------------------------------------|
01576> CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
01577>                     DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
01578>                     N=[3], TP=[0.47]hrs,
01579>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01580> *#-----------------|-----------------------------------------------------------|
01581> ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
01582> *#-----------------|-----------------------------------------------------------|
01583>
01584> *#-----------------|-----------------------------------------------------------|
01585> *#-----------------|--------------- East Catchment Area ----------------------|
01586> *%-----------------|-----------------------------------------------------------|
01587> CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
01588>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
01589>                     N=[3], TP=[1.87]hrs,
01590>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01591> *%-----------------|-----------------------------------------------------------|
01592> ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
01593>                     RDT=[1](min),
01594>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
01595>                                         FPSLOPE=[0.65](%),
01596>                     SECNUM=[1],       NSEG=[3]
01597>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
01598>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
01599>                                                    [196.60, 514.00]
01600>                                                    [215.60, 513.59]
01601>                                                    [216.55, 513.00]
01602>                                                    [217.20, 512.50]
01603>                                                    [217.45, 512.46]
01604>                                                    [217.80, 512.50]
01605>                                                    [218.95, 513.00]
01606>                                                    [221.30, 513.50]
01607>                                                    [221.70, 513.71]
01608>                                                    [230.40, 513.71]
01609>                                                    [243.80, 514.00]
01610>                                                    [249.40, 514.12]
01611>                                                    [259.50, 514.28]
01612>                                                    [266.50, 514.50]
01613> *%-----------------|-----------------------------------------------------------|
01614> CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
01615>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
01616>                     N=[3], TP=[0.64]hrs,
01617>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01618> *#-----------------|-----------------------------------------------------------|
01619> ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
01620> *#-----------------|-----------------------------------------------------------|
```

```
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
                    DWF=[0](cms),  CN/C=[74.4], IA=[10](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
*#----------------|-------------------------------------------------------------|

*#----------------|-------------------------------------------------------------|
*#----------------|--------------- East Catchment Area ----------------------|
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
                    DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
                    N=[3], TP=[1.87]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                        FPSLOPE=[0.65](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                   [196.60, 514.00]
                                                   [215.60, 513.59]
                                                   [216.55, 513.00]
                                                   [217.20, 512.50]
                                                   [217.45, 512.46]
                                                   [217.80, 512.50]
                                                   [218.95, 513.00]
                                                   [221.30, 513.50]
                                                   [221.70, 513.71]
                                                   [230.40, 513.71]
                                                   [243.80, 514.00]
                                                   [249.40, 514.12]
                                                   [259.50, 514.28]
                                                   [266.50, 514.50]
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
                    DWF=[0](cms),  CN/C=[76.2], IA=[7.0](mm),
                    N=[3], TP=[0.64]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
*#----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                        FPSLOPE=[0.65](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                   [196.60, 514.00]
                                                   [215.60, 513.59]
                                                   [216.55, 513.00]
                                                   [217.20, 512.50]
                                                   [217.45, 512.46]
                                                   [217.80, 512.50]
                                                   [218.95, 513.00]
                                                   [221.30, 513.50]
                                                   [221.70, 513.71]
                                                   [230.40, 513.71]
                                                   [243.80, 514.00]
                                                   [249.40, 514.12]
                                                   [259.50, 514.28]
                                                   [266.50, 514.50]
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                    DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
                    N=[3], TP=[0.64]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
*#----------------|-------------------------------------------------------------|
SAVE HYD            ID=[7],   # OF PCYCLES=[1],   ICASEsh=[-1]
                    HYD_FILENAME=["S100yTUT.txt"]
                    HYD_COMMENT=["Total FLow in Unnamed Tributary in 100yr SCS"]
*%----------------|-------------------------------------------------------------|
SAVE HYD            ID=[8],   # OF PCYCLES=[1],   ICASEsh=[-1]
                    HYD_FILENAME=["S100yTFD.txt"]
                    HYD_COMMENT=["Total FLow in Foley Drain in 100yr SCS"]
*%----------------|-------------------------------------------------------------|
*#----------------|-------------------------------------------------------------|

*#*******************************************************************************
*#                                Regional Storm (Hazel)
*#*******************************************************************************
READ STORM          STORM_FILENAME=["hazel.stm"]
*#----------------|-------------------------------------------------------------|
*#----------------|--------------- West Catchment Area ----------------------|
*#----------------|---------------- Unnamed Tributary ----------------------|
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
                    DWF=[0](cms),  CN/C=[86.3], IA=[6.1](mm),
                    N=[3], TP=[0.57]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[425](m),  CHSLOPE=[0.96](%),
                                        FPSLOPE=[0.96](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                   [ 48.0, 514.81]
                                                   [ 60.0, 514.69]
                                                   [ 68.5, 514.54]
                                                   [ 75.5, 514.23]
                                                   [ 76.0, 514.06]
                                                   [ 77.5, 514.06]
                                                   [ 78.5, 514.36]
                                                   [ 79.5, 514.39]
                                                   [ 92.5, 514.49]
                                                   [103.5, 514.51]
                                                   [118.5, 514.67]
                                                   [130.5, 514.50]
                                                   [151.0, 515.00]
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["Pre 2"], DT=[1]min, AREA=[14.85](ha),
                    DWF=[0](cms),  CN/C=[88], IA=[7](mm),
                    N=[3], TP=[0.75]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
*#----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
                    RDT=[1](min),
                    CHLGTH=[150](m),  CHSLOPE=[0.96](%),
                                        FPSLOPE=[0.96](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0
                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                   [ 48.0, 514.81]
                                                   [ 60.0, 514.69]
                                                   [ 68.5, 514.54]
                                                   [ 75.5, 514.23]
                                                   [ 76.0, 514.06]
                                                   [ 77.5, 514.06]
                                                   [ 78.5, 514.36]
                                                   [ 79.5, 514.39]
                                                   [ 92.5, 514.49]
                                                   [103.5, 514.51]
                                                   [118.5, 514.67]
                                                   [130.5, 514.50]
                                                   [151.0, 515.00]
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[6], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
                    DWF=[0](cms),  CN/C=[77], IA=[10](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[7], NHYD=["Outlet"], IDs to add=[5+6]
*#----------------|-------------------------------------------------------------|
*#----------------|-------------------------------------------------------------|
*#----------------|--------------- East Catchment Area ----------------------|
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["Ext 2"], DT=[1]min, AREA=[417.2](ha),
                    DWF=[0](cms),  CN/C=[87.8], IA=[7.65](mm),
                    N=[3], TP=[1.87]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["SiteLag"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                        FPSLOPE=[0.65](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                   [196.60, 514.00]
                                                   [215.60, 513.59]
                                                   [216.55, 513.00]
                                                   [217.20, 512.50]
                                                   [217.45, 512.46]
                                                   [217.80, 512.50]
                                                   [218.95, 513.00]
                                                   [221.30, 513.50]
                                                   [221.70, 513.71]
                                                   [230.40, 513.71]
                                                   [243.80, 514.00]
                                                   [249.40, 514.12]
                                                   [259.50, 514.28]
                                                   [266.50, 514.50]
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["Pre 3"], DT=[1]min, AREA=[29.18](ha),
                    DWF=[0](cms),  CN/C=[89.1], IA=[7.0](mm),
                    N=[3], TP=[0.64]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["S PL"], IDs to add=[2+3]
*#----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[5], NHYD=["DS Lag"], IDin=[4],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                        FPSLOPE=[0.65](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,2
                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                   [196.60, 514.00]
                                                   [215.60, 513.59]
                                                   [216.55, 513.00]
                                                   [217.20, 512.50]
                                                   [217.45, 512.46]
                                                   [217.80, 512.50]
                                                   [218.95, 513.00]
                                                   [221.30, 513.50]
                                                   [221.70, 513.71]
                                                   [230.40, 513.71]
                                                   [243.80, 514.00]
                                                   [249.40, 514.12]
                                                   [259.50, 514.28]
                                                   [266.50, 514.50]
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[6], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                    DWF=[0](cms),  CN/C=[80.3], IA=[10](mm),
                    N=[3], TP=[0.64]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["Outlet"], IDs to add=[5+6]
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["Tot Area"], IDs to add=[7+8]
*#----------------|-------------------------------------------------------------|

FINISH
```

PRE-DEVELOPMENT - OUTPUT


```
00001> ==============================================================================
00002>
00003>    SSSSS  W   W  M   M  H   H  Y   Y  M   M   OOO        999    999    =========
00004>    S      W W W  MM MM  H   H   Y Y   MM MM  O   O      9   9  9   9
00005>    SSSSS  W W W  M M M  HHHHH    Y    M M M  O   O  ##  9   9  9   9   Ver  4.05
00006>        S  W W   M   M  H   H    Y    M   M  O   O       9999   9999   Sept 2011
00007>    SSSSS   W W   M   M  H   H    Y    M   M   OOO          9      9   =========
00008>                                                          9   9  9   9   # 3737016
00009>         StormWater Management HYdrologic Model           999    999    =========
00010>
00011> ******************************************************************************
00012> ***************************** SWMHYMO Ver/4.05  ****************************
00013> *********  A single event and continuous hydrologic simulation model  *********
00014> *********     based on the principles of HYMO and its successors      *********
00015> *********                OTTHYMO-83 and OTTHYMO-89.                   *********
00016> ******************************************************************************
00017> ********* Distributed by:  J.F. Sabourin and Associates Inc.          *********
00018> *********                  Ottawa,  Ontario: (613) 836-3884           *********
00019> *********                  Gatineau, Quebec: (819) 243-6858           *********
00020> *********                  E-Mail: swmhymo@jfsa.Com                   *********
00021> ******************************************************************************
00022>
00023> ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00024> +++++++++ Licensed user: C.F. Crozier & Associates Inc.                +++++++++
00025> +++++++++                Collingwood          SERIAL#:3737016          +++++++++
00026> ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00027>
00028> ******************************************************************************
00029> *********           ++++++ PROGRAM ARRAY DIMENSIONS ++++++             *********
00030> *********           Maximum value for ID numbers  :     10             *********
00031> *********           Max. number of rainfall points:  105408            *********
00032> *********           Max. number of flow points    : 105408             *********
00033> ******************************************************************************
00034>
00035> ***** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) *****
00036> *****-------------------------------------------------------------------------*****
00037> *****    ID:  Hydrograph IDentification numbers, (1-10).                    *****
00038> *****  NHYD:  Hydrograph reference numbers, (6 digits or characters).        *****
00039> *****  AREA:  Drainage area associated with hydrograph, (ac.) or (ha.).      *****
00040> ***** QPEAK:  Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s).        *****
00041> ***** TpeakDate_hh:mm is the date and time of the peak flow.                 *****
00042> *****  R.V.:  Runoff Volume of simulated hydrograph, (in) or (mm).           *****
00043> *****  R.C.:  Runoff Coefficient of simulated hydrograph, (ratio).           *****
00044> *****    *:  see WARNING or NOTE message printed at end of run.              *****
00045> *****   **:  see  ERROR  message printed at end of run.                      *****
00046> ******************************************************************************
00047> ******************************************************************************
00048>
00049> ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
00050>
00051> ******************************************************************************
00052>
00053> **********************   S U M M A R Y   O U T P U T   **********************
00054> ******************************************************************************
00055> *          DATE: 2018-09-04      TIME: 08:35:27     RUN COUNTER: 000853      *
00056> ******************************************************************************
00057> * Input   filename: C:\SWMHYMO\projects\1060-4~2\PreU.dat                    *
00058> * Output  filename: C:\SWMHYMO\projects\1060-4~2\PreU.out                    *
00059> * Summary filename: C:\SWMHYMO\projects\1060-4~2\PreU.sum                    *
00060> * User comments:                                                             *
00061> * 1:_________________________________________________________________________*
00062> * 2:_________________________________________________________________________*
00063> * 3:_________________________________________________________________________*
00064> ******************************************************************************
00065>
00066>
00067> #*****************************************************************************
00068> #  Project Name: [Dundalk East]                Project Number: [1060-4892]
00069> #  Date        : 09-09-2018
00070> #  Modeller    : [B.H/HB]
00071> #  Company     : C.F. Crozier & Associates Inc.
00072> #  License #   :  3737016
00073> #*****************************************************************************
00074>  RUN:COMMAND#
00075>  001:0001----------------------------------------------------------------------
00076>      START
00077>       [TZERO =    .00 hrs on        0]
00078>       [METOUT=   2    (1=imperial, 2=metric output)]
00079>       [NSTORM=   0 ]
00080>       [NRUN  =   1 ]
00081> #-----------------|------------- PRE DEVELOPMENT MODEL ----------------------|
00082> #-----------------|-------------------------------------------------------------|
00083> #                  2222   Y   Y  RRRR       CCCC  H   H  IIIII                |
00084> #                     2    Y Y   R   R     C      H   H    I                  |
00085> #                  2222     Y    RRRR      C      HHHHH    I                  |
00086> #                  2        Y    R  R      C      H   H    I                  |
00087> #                  2222     Y    R   R      CCCC  H   H  IIIII                |
00088> #-----------------|-------------------------------------------------------------|
00089> #*****************************************************************************
00090> #                             2-YEAR, 3 HOUR CHICAGO STORM
00091> #*****************************************************************************
00092> #-----------------|-------------------------------------------------------------|
00093>  001:0002----------------------------------------------------------------------
00094>      CHICAGO STORM
00095>       [SDT= 5.00:SDUR=   3.00:PTOT=  29.91]
00096>       {A/B/C= 424.014/   1.500/    .721: R=.9997}
00097> #-----------------|-------------------------------------------------------------|
00098> #-----------------|--------------- West Catchment Area ----------------------|
00099> #-----------------|--------------- Unnamed Tributary ----------------------|
00100>  001:0003---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00101>      CALIB NASHYD       01:Ext 1         41.20     .306 No_date    1:52    5.03
00102>       [CN= 74.1: N= 3.00]
00103>       [Tp=  .57:DT= 1.00]
00104> #-----------------|-------------------------------------------------------------|
00105>  001:0004---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00106>      ROUTE CHANNEL   -> 01:Ext 1         41.20     .306 No_date    1:52    5.03
00107>       [RDT= 1.00] out<- 02:SiteLag       41.20     .295 No_date    2:02    5.03
00108>       [L/S/n=  425./ .960/.035]
00109>       {Vmax=  .638:Dmax=  .213}
00110>  001:0005---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00111>      CALIB NASHYD       03:Pre 2         14.85     .087 No_date    2:12    4.68
00112>       [CN= 74.0: N= 3.00]
00113>       [Tp=  .75:DT= 1.00]
00114> #-----------------|-------------------------------------------------------------|
00115>  001:0006---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00116>      ADD HYD            02:SiteLag       41.20     .295 No_date    2:02    5.03
00117>                       + 03:Pre 2         14.85     .087 No_date    2:12    4.68
00118>       [DT= 1.00]  SUM=  04:S PL          56.05     .381 No_date    2:04    4.94
00119> #-----------------|-------------------------------------------------------------|
00120>  001:0007---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00121>      ROUTE CHANNEL   -> 04:S PL          56.05     .381 No_date    2:04    4.94
00122>       [RDT= 1.00] out<- 05:DS Lag        56.05     .380 No_date    2:08    4.94
00123>       [L/S/n=  150./ .960/.035]
00124>       {Vmax=  .661:Dmax=  .234}
00125>  001:0008---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00126>      CALIB NASHYD       06:Ext 3          1.55     .009 No_date    1:50    3.69
00127>       [CN= 74.4: N= 3.00]
00128>       [Tp=  .47:DT= 1.00]
00129> #-----------------|-------------------------------------------------------------|
00130>  001:0009---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00131>      ADD HYD            05:DS Lag        56.05     .380 No_date    2:08    4.94
00132>                       + 06:Ext 3          1.55     .009 No_date    1:50    3.69
00133>       [DT= 1.00]  SUM=  07:Outlet        57.60     .388 No_date    2:07    4.91
00134> #-----------------|-------------------------------------------------------------|
00135> #-----------------|-------------------------------------------------------------|
00136> #-----------------|--------------- East Catchment Area ----------------------|
00137> #-----------------|--------------- Foley Drain ----------------------|
00138>  001:0010---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00139>      CALIB NASHYD       01:Ext 2        417.20    1.380 No_date    3:39    4.58
00140>       [CN= 74.7: N= 3.00]
00141>       [Tp= 1.87:DT= 1.00]
00142>  001:0011---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00143>      ROUTE CHANNEL   -> 01:Ext 2        417.20    1.380 No_date    3:39    4.58
00144>       [RDT= 1.00] out<- 02:SiteLag      417.20    1.372 No_date    3:47    4.58
00145>       [L/S/n=  550./ .650/.035]
00146>       {Vmax=  .897:Dmax=  .781}
00147>  001:0012---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00148>      CALIB NASHYD       03:Pre 3         29.18     .205 No_date    2:00    5.13
00149>       [CN= 76.2: N= 3.00]
00150>       [Tp=  .64:DT= 1.00]
00151> #-----------------|-------------------------------------------------------------|
00152>  001:0013---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00153>      ADD HYD            02:SiteLag       417.20    1.372 No_date    3:47    4.58
00154>                       + 03:Pre 3         29.18     .205 No_date    2:00    5.13
00155>       [DT= 1.00]  SUM=  04:S PL          446.38    1.443 No_date    3:39    4.61
00156> #-----------------|-------------------------------------------------------------|
00157>  001:0014---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00158>      ROUTE CHANNEL   -> 04:S PL          446.38    1.443 No_date    3:39    4.61
00159>       [RDT= 1.00] out<- 05:DS Lag       446.38    1.434 No_date    3:46    4.61
00160>       [L/S/n=  550./ .650/.035]
00161>       {Vmax=  .906:Dmax=  .795}
00162>  001:0015---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00163>      CALIB NASHYD       06:Ext 4          6.30     .021 No_date    2:10    2.51
00164>       [CN= 64.8: N= 3.00]
00165>       [Tp=  .64:DT= 1.00]
00166> #-----------------|-------------------------------------------------------------|
00167>  001:0016---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00168>      ADD HYD            05:DS Lag        446.38    1.434 No_date    3:46    4.61
00169>                       + 06:Ext 4          6.30     .021 No_date    2:10    2.51
00170>       [DT= 1.00]  SUM=  08:Outlet        452.68    1.442 No_date    3:45    4.58
00171> #-----------------|-------------------------------------------------------------|
00172>  001:0017---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00173>      ADD HYD            07:Outlet         57.60     .388 No_date    2:07    4.91
00174>                       + 08:Outlet        452.68    1.442 No_date    3:45    4.58
00175>       [DT= 1.00]  SUM=  09:Tot Area      510.28    1.620 No_date    3:29    4.62
00176> #-----------------|-------------------------------------------------------------|
00177>  001:0018---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00178>      SAVE HYD           07:Outlet         57.60     .388 No_date    2:07    4.91
00179>       fname :C:\SWMHYMO\projects\1060-4~2\C2yTUT.txt
00180>       remark:Total FLow in Unnamed Tributary in 2yr CHI
00181>  001:0019---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00182>      SAVE HYD           08:Outlet        452.68    1.442 No_date    3:45    4.58
00183>       fname :C:\SWMHYMO\projects\1060-4~2\C2yTFD.txt
00184>       remark:Total FLow in Foley Drain in 2yr CHI
00185> #-----------------|-------------------------------------------------------------|
00186> #-----------------|-------------------------------------------------------------|
00187> #                    5555   Y   Y  RRRR       CCCC  H   H  IIIII                |
00188> #                    5      Y Y   R   R     C      H   H    I                  |
00189> #                    5555     Y    RRRR      C      HHHHH    I                  |
00190> #                       5     Y    R  R      C      H   H    I                  |
00191> #                    5555     Y    R   R      CCCC  H   H  IIIII                |
00192> #-----------------|-------------------------------------------------------------|
00193> #*****************************************************************************
00194> #                             5-YEAR, 3 HOUR CHICAGO STORM
00195> #*****************************************************************************
00196> #-----------------|-------------------------------------------------------------|
00197>  001:0020----------------------------------------------------------------------
00198>      CHICAGO STORM
00199>       [SDT= 5.00:SDUR=   3.00:PTOT=  40.44]
00200>       {A/B/C= 567.448/   1.500/    .719: R=.9997}
00201> #-----------------|-------------------------------------------------------------|
00202> #-----------------|--------------- West Catchment Area ----------------------|
00203> #-----------------|--------------- Unnamed Tributary ----------------------|
00204>  001:0021---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00205>      CALIB NASHYD       01:Ext 1         41.20     .604 No_date    1:49    9.58
00206>       [CN= 74.1: N= 3.00]
00207>       [Tp=  .57:DT= 1.00]
00208> #-----------------|-------------------------------------------------------------|
00209>  001:0022---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00210>      ROUTE CHANNEL   -> 01:Ext 1         41.20     .604 No_date    1:49    9.58
00211>       [RDT= 1.00] out<- 02:SiteLag       41.20     .583 No_date    1:59    9.58
00212>       [L/S/n=  425./ .960/.035]
00213>       {Vmax=  .725:Dmax=  .286}
00214>  001:0023---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00215>      CALIB NASHYD       03:Pre 2         14.85     .174 No_date    2:07    9.12
00216>       [CN= 74.0: N= 3.00]
00217>       [Tp=  .75:DT= 1.00]
00218> #-----------------|-------------------------------------------------------------|
00219>  001:0024---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00220>      ADD HYD            02:SiteLag       41.20     .583 No_date    1:59    9.58
00221>                       + 03:Pre 2         14.85     .174 No_date    2:07    9.12
00222>       [DT= 1.00]  SUM=  04:S PL          56.05     .755 No_date    2:01    9.46
00223> #-----------------|-------------------------------------------------------------|
00224>  001:0025---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00225>      ROUTE CHANNEL   -> 04:S PL          56.05     .755 No_date    2:01    9.46
00226>       [RDT= 1.00] out<- 05:DS Lag        56.05     .753 No_date    2:03    9.46
00227>       [L/S/n=  150./ .960/.035]
00228>       {Vmax=  .762:Dmax=  .315}
00229>  001:0026---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00230>      CALIB NASHYD       06:Ext 3          1.55     .020 No_date    1:44    7.86
00231>       [CN= 74.4: N= 3.00]
00232>       [Tp=  .47:DT= 1.00]
00233> #-----------------|-------------------------------------------------------------|
00234>  001:0027---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00235>      ADD HYD            05:DS Lag        56.05     .753 No_date    2:03    9.46
00236>                       + 06:Ext 3          1.55     .020 No_date    1:44    7.86
00237>       [DT= 1.00]  SUM=  07:Outlet        57.60     .771 No_date    2:03    9.42
00238> #-----------------|-------------------------------------------------------------|
00239> #-----------------|-------------------------------------------------------------|
00240> #-----------------|--------------- East Catchment Area ----------------------|
00241> #-----------------|--------------- Foley Drain ----------------------|
00242>  001:0028---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00243>      CALIB NASHYD       01:Ext 2        417.20    2.729 No_date    3:35    9.05
00244>       [CN= 74.7: N= 3.00]
00245>       [Tp= 1.87:DT= 1.00]
00246>  001:0029---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00247>      ROUTE CHANNEL   -> 01:Ext 2        417.20    2.729 No_date    3:35    9.05
00248>       [RDT= 1.00] out<- 02:SiteLag      417.20    2.718 No_date    3:41    9.05
00249>       [L/S/n=  550./ .650/.035]
00250>       {Vmax= 1.044:Dmax= 1.013}
00251>  001:0030---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00252>      CALIB NASHYD       03:Pre 3         29.18     .410 No_date    1:56    9.92
00253>       [CN= 76.2: N= 3.00]
00254>       [Tp=  .64:DT= 1.00]
00255> #-----------------|-------------------------------------------------------------|
00256>  001:0031---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00257>      ADD HYD            02:SiteLag       417.20    2.718 No_date    3:41    9.05
00258>                       + 03:Pre 3         29.18     .410 No_date    1:56    9.92
00259>       [DT= 1.00]  SUM=  04:S PL          446.38    2.861 No_date    3:32    9.11
00260> #-----------------|-------------------------------------------------------------|
00261>  001:0032---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00262>      ROUTE CHANNEL   -> 04:S PL          446.38    2.861 No_date    3:32    9.11
00263>       [RDT= 1.00] out<- 05:DS Lag       446.38    2.849 No_date    3:40    9.11
00264>       [L/S/n=  550./ .650/.035]
00265>       {Vmax= 1.057:Dmax= 1.031}
00266>  001:0033---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00267>      CALIB NASHYD       06:Ext 4          6.30     .047 No_date    2:02    5.50
00268>       [CN= 64.8: N= 3.00]
00269>       [Tp=  .64:DT= 1.00]
00270> #-----------------|-------------------------------------------------------------|
```

```
00271>  001:0034---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00272>      ADD HYD            05:DS Lag       446.38    2.849 No_date    3:40    9.11
00273>                       +  06:Ext 4         6.30     .047 No_date    2:02    5.50
00274>       [DT= 1.00]  SUM=  08:Outlet       452.68    2.867 No_date    3:39    9.06
00275> #-----------------|-------------------------------------------------------------|
00276>  001:0035---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00277>      ADD HYD            07:Outlet        57.60     .771 No_date    2:03    9.42
00278>                       +  08:Outlet       452.68    2.867 No_date    3:39    9.06
00279>       [DT= 1.00]  SUM=  09:Tot Area     510.28    3.216 No_date    3:25    9.10
00280> #-----------------|-------------------------------------------------------------|
00281>  001:0036---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00282>      SAVE HYD           07:Outlet        57.60     .771 No_date    2:03    9.42
00283>       fname :C:\SWMHYMO\projects\1060-4~2\C2yTUT.txt
00284>       remark:Total FLow in Unnamed Tributary in 2yr CHI
00285>  001:0037---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00286>      SAVE HYD           08:Outlet       452.68    2.867 No_date    3:39    9.06
00287>       fname :C:\SWMHYMO\projects\1060-4~2\C2yTFD.txt
00288>       remark:Total FLow in Foley Drain in 2yr CHI
00289> #-----------------|-------------------------------------------------------------|
00290> #-----------------------------------------------------------------------------|
00291> #                  11    000   Y   Y  RRRR       CCCC  H   H  IIIII            |
00292> #                 1 1    0    0  Y Y  R   R     C      H   H    I              |
00293> #                  1    0    0   Y   RRRR      C      HHHHH    I              |
00294> #                  1    0    0   Y   R  R      C      H   H    I              |
00295> #                 11111  000     Y   R   R      CCCC  H   H  IIIII            |
00296> #-----------------------------------------------------------------------------|
00297> #*****************************************************************************
00298> #                              10-YEAR, 3 HOUR CHICAGO STORM
00299> #*****************************************************************************
00300> #-----------------|-------------------------------------------------------------|
00301>  001:0038-----------------------------------------------------------------------
00302>      CHICAGO STORM
00303>       [SDT= 5.00:SDUR=   3.00:PTOT=  47.31]
00304>       {A/B/C= 663.823/   1.500/    .719: R=.9997}
00305> #-----------------|-------------------------------------------------------------|
00306> #-----------------|--------------- West Catchment Area ----------------------|
00307> #-----------------|--------------- Unnamed Tributary ----------------------|
00308>  001:0039---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00309>      CALIB NASHYD       01:Ext 1         41.20     .837 No_date    1:48   13.07
00310>       [CN= 74.1: N= 3.00]
00311>       [Tp=  .57:DT= 1.00]
00312> #-----------------|-------------------------------------------------------------|
00313>  001:0040---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00314>      ROUTE CHANNEL   -> 01:Ext 1         41.20     .837 No_date    1:48   13.07
00315>       [RDT= 1.00] out<- 02:SiteLag       41.20     .811 No_date    1:58   13.07
00316>       [L/S/n=  425./ .960/.035]
00317>       {Vmax=  .767:Dmax=  .325}
00318>  001:0041---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00319>      CALIB NASHYD       03:Pre 2         14.85     .242 No_date    2:05   12.54
00320>       [CN= 74.0: N= 3.00]
00321>       [Tp=  .75:DT= 1.00]
00322> #-----------------|-------------------------------------------------------------|
00323>  001:0042---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00324>      ADD HYD            02:SiteLag       41.20     .811 No_date    1:58   13.07
00325>                       +  03:Pre 2         14.85     .242 No_date    2:05   12.54
00326>       [DT= 1.00]  SUM=  04:S PL          56.05    1.051 No_date    1:59   12.93
00327> #-----------------|-------------------------------------------------------------|
00328>  001:0043---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00329>      ROUTE CHANNEL   -> 04:S PL          56.05    1.051 No_date    1:59   12.93
00330>       [RDT= 1.00] out<- 05:DS Lag        56.05    1.048 No_date    2:02   12.93
00331>       [L/S/n=  150./ .960/.035]
00332>       {Vmax=  .781:Dmax=  .352}
00333>  001:0044---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00334>      CALIB NASHYD       06:Ext 3          1.55     .029 No_date    1:42   11.16
00335>       [CN= 74.4: N= 3.00]
00336>       [Tp=  .47:DT= 1.00]
00337> #-----------------|-------------------------------------------------------------|
00338>  001:0045---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00339>      ADD HYD            05:DS Lag        56.05    1.048 No_date    2:02   12.93
00340>                       +  06:Ext 3          1.55     .029 No_date    1:42   11.16
00341>       [DT= 1.00]  SUM=  07:Outlet        57.60    1.073 No_date    2:02   12.89
00342> #-----------------|-------------------------------------------------------------|
00343> #-----------------|-------------------------------------------------------------|
00344> #-----------------|--------------- East Catchment Area ----------------------|
00345>  001:0046---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00346>      CALIB NASHYD       01:Ext 2        417.20    3.775 No_date    3:33   12.52
00347>       [CN= 74.7: N= 3.00]
00348>       [Tp= 1.87:DT= 1.00]
00349>  001:0047---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00350>      ROUTE CHANNEL   -> 01:Ext 2        417.20    3.775 No_date    3:33   12.52
00351>       [RDT= 1.00] out<- 02:SiteLag      417.20    3.763 No_date    3:39   12.52
00352>       [L/S/n=  550./ .650/.035]
00353>       {Vmax= 1.146:Dmax= 1.133}
00354>  001:0048---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00355>      CALIB NASHYD       03:Pre 3         29.18     .571 No_date    1:55   13.58
00356>       [CN= 76.2: N= 3.00]
00357>       [Tp=  .64:DT= 1.00]
00358> #-----------------|-------------------------------------------------------------|
00359>  001:0049---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00360>      ADD HYD            02:SiteLag      417.20    3.763 No_date    3:39   12.52
00361>                       +  03:Pre 3         29.18     .571 No_date    1:55   13.58
00362>       [DT= 1.00]  SUM=  04:S PL         446.38    3.964 No_date    3:32   12.59
00363> #-----------------|-------------------------------------------------------------|
00364>  001:0050---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00365>      ROUTE CHANNEL   -> 04:S PL         446.38    3.964 No_date    3:32   12.59
00366>       [RDT= 1.00] out<- 05:DS Lag       446.38    3.950 No_date    3:36   12.59
00367>       [L/S/n=  550./ .650/.035]
00368>       {Vmax= 1.154:Dmax= 1.149}
00369>  001:0051---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00370>      CALIB NASHYD       06:Ext 4          6.30     .069 No_date    2:00    7.94
00371>       [CN= 64.8: N= 3.00]
00372>       [Tp=  .64:DT= 1.00]
00373> #-----------------|-------------------------------------------------------------|
00374>  001:0052---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00375>      ADD HYD            05:DS Lag       446.38    3.950 No_date    3:36   12.59
00376>                       +  06:Ext 4          6.30     .069 No_date    2:00    7.94
00377>       [DT= 1.00]  SUM=  08:Outlet       452.68    3.977 No_date    3:36   12.52
00378> #-----------------|-------------------------------------------------------------|
00379>  001:0053---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00380>      ADD HYD            07:Outlet        57.60    1.073 No_date    2:02   12.89
00381>                       +  08:Outlet       452.68    3.977 No_date    3:36   12.52
00382>       [DT= 1.00]  SUM=  09:Tot Area     510.28    4.460 No_date    3:21   12.56
00383> #-----------------|-------------------------------------------------------------|
00384>  001:0054---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00385>      SAVE HYD           07:Outlet        57.60    1.073 No_date    2:02   12.89
00386>       fname :C:\SWMHYMO\projects\1060-4~2\C10yTUT.txt
00387>       remark:Total FLow in Unnamed Tributary in 10yr CHI
00388>  001:0055---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00389>      SAVE HYD           08:Outlet       452.68    3.977 No_date    3:36   12.52
00390>       fname :C:\SWMHYMO\projects\1060-4~2\C10yTFD.txt
00391>       remark:Total FLow in Foley Drain in 10yr CHI
00392> #-----------------|-------------------------------------------------------------|
00393> #-----------------------------------------------------------------------------|
00394> #                 2222  5555   Y   Y  RRRR       CCCC  H   H  IIIII            |
00395> #                    2  5       Y Y  R   R     C      H   H    I              |
00396> #                 2222  5555     Y   RRRR      C      HHHHH    I              |
00397> #                 2        5     Y   R  R      C      H   H    I              |
00398> #                 2222  5555     Y   R   R      CCCC  H   H  IIIII            |
00399> #-----------------------------------------------------------------------------|
00400> #*****************************************************************************
00401> #                              25-YEAR, 3 HOUR CHICAGO STORM
00402> #*****************************************************************************
00403> #-----------------|-------------------------------------------------------------|
00404>  001:0056-----------------------------------------------------------------------
00405>      CHICAGO STORM
00406>       [SDT= 5.00:SDUR=   3.00:PTOT=  56.12]
00407>       {A/B/C= 787.346/   1.500/    .719: R=.9997}
00408> #-----------------|-------------------------------------------------------------|
00409> #-----------------|--------------- West Catchment Area ----------------------|
00410> #-----------------|--------------- Unnamed Tributary ----------------------|
00411>  001:0057---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00412>      CALIB NASHYD       01:Ext 1         41.20    1.175 No_date    1:47   18.02
00413>       [CN= 74.1: N= 3.00]
00414>       [Tp=  .57:DT= 1.00]
00415> #-----------------|-------------------------------------------------------------|
00416>  001:0058---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00417>      ROUTE CHANNEL   -> 01:Ext 1         41.20    1.175 No_date    1:47   18.02
00418>       [RDT= 1.00] out<- 02:SiteLag       41.20    1.136 No_date    1:56   18.02
00419>       [L/S/n=  425./ .960/.035]
00420>       {Vmax=  .788:Dmax=  .367}
00421>  001:0059---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00422>      CALIB NASHYD       03:Pre 2         14.85     .341 No_date    2:03   17.44
00423>       [CN= 74.0: N= 3.00]
00424>       [Tp=  .75:DT= 1.00]
00425> #-----------------|-------------------------------------------------------------|
00426>  001:0060---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00427>      ADD HYD            02:SiteLag       41.20    1.136 No_date    1:56   18.02
00428>                       +  03:Pre 2         14.85     .341 No_date    2:03   17.44
00429>       [DT= 1.00]  SUM=  04:S PL          56.05    1.474 No_date    1:58   17.88
00430> #-----------------|-------------------------------------------------------------|
00431>  001:0061---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00432>      ROUTE CHANNEL   -> 04:S PL          56.05    1.474 No_date    1:58   17.88
00433>       [RDT= 1.00] out<- 05:DS Lag        56.05    1.469 No_date    2:01   17.88
00434>       [L/S/n=  150./ .960/.035]
00435>       {Vmax=  .786:Dmax=  .390}
00436>  001:0062---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00437>      CALIB NASHYD       06:Ext 3          1.55     .043 No_date    1:40   15.93
00438>       [CN= 74.4: N= 3.00]
00439>       [Tp=  .47:DT= 1.00]
00440> #-----------------|-------------------------------------------------------------|
00441>  001:0063---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00442>      ADD HYD            05:DS Lag        56.05    1.469 No_date    2:01   17.88
00443>                       +  06:Ext 3          1.55     .043 No_date    1:40   15.93
00444>       [DT= 1.00]  SUM=  07:Outlet        57.60    1.505 No_date    2:01   17.83
00445> #-----------------|-------------------------------------------------------------|
00446> #-----------------|-------------------------------------------------------------|
00447> #-----------------|--------------- East Catchment Area ----------------------|
00448>  001:0064---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00449>      CALIB NASHYD       01:Ext 2        417.20    5.271 No_date    3:31   17.47
00450>       [CN= 74.7: N= 3.00]
00451>       [Tp= 1.87:DT= 1.00]
00452>  001:0065---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00453>      ROUTE CHANNEL   -> 01:Ext 2        417.20    5.271 No_date    3:31   17.47
00454>       [RDT= 1.00] out<- 02:SiteLag      417.20    5.248 No_date    3:40   17.47
00455>       [L/S/n=  550./ .650/.035]
00456>       {Vmax= 1.194:Dmax= 1.251}
00457>  001:0066---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00458>      CALIB NASHYD       03:Pre 3         29.18     .804 No_date    1:53   18.78
00459>       [CN= 76.2: N= 3.00]
00460>       [Tp=  .64:DT= 1.00]
00461> #-----------------|-------------------------------------------------------------|
00462>  001:0067---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00463>      ADD HYD            02:SiteLag      417.20    5.248 No_date    3:40   17.47
00464>                       +  03:Pre 3         29.18     .804 No_date    1:53   18.78
00465>       [DT= 1.00]  SUM=  04:S PL         446.38    5.512 No_date    3:31   17.55
00466> #-----------------|-------------------------------------------------------------|
00467>  001:0068---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00468>      ROUTE CHANNEL   -> 04:S PL         446.38    5.512 No_date    3:31   17.55
00469>       [RDT= 1.00] out<- 05:DS Lag       446.38    5.487 No_date    3:39   17.55
00470>       [L/S/n=  550./ .650/.035]
00471>       {Vmax= 1.184:Dmax= 1.262}
00472>  001:0069---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00473>      CALIB NASHYD       06:Ext 4          6.30     .102 No_date    1:57   11.55
00474>       [CN= 64.8: N= 3.00]
00475>       [Tp=  .64:DT= 1.00]
00476> #-----------------|-------------------------------------------------------------|
00477>  001:0070---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00478>      ADD HYD            05:DS Lag       446.38    5.487 No_date    3:39   17.55
00479>                       +  06:Ext 4          6.30     .102 No_date    1:57   11.55
00480>       [DT= 1.00]  SUM=  08:Outlet       452.68    5.523 No_date    3:38   17.47
00481> #-----------------|-------------------------------------------------------------|
00482>  001:0071---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00483>      ADD HYD            07:Outlet        57.60    1.505 No_date    2:01   17.83
00484>                       +  08:Outlet       452.68    5.523 No_date    3:38   17.47
00485>       [DT= 1.00]  SUM=  09:Tot Area     510.28    6.156 No_date    3:22   17.51
00486> #-----------------|-------------------------------------------------------------|
00487>  001:0072---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00488>      SAVE HYD           07:Outlet        57.60    1.505 No_date    2:01   17.83
00489>       fname :C:\SWMHYMO\projects\1060-4~2\C10yTUT.txt
00490>       remark:Total FLow in Unnamed Tributary in 10yr CHI
00491>  001:0073---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00492>      SAVE HYD           08:Outlet       452.68    5.523 No_date    3:38   17.47
00493>       fname :C:\SWMHYMO\projects\1060-4~2\C10yTFD.txt
00494>       remark:Total FLow in Foley Drain in 10yr CHI
00495> #-----------------|-------------------------------------------------------------|
00496> #-----------------------------------------------------------------------------|
00497> #                  5555  000     Y   Y  RRRR       CCCC  H   H  IIIII            |
00498> #                     5    0    0  Y Y  R   R     C      H   H    I              |
00499> #                  5555 0   0    Y   RRRR      C      HHHHH    I              |
00500> #                     5 0   0    Y   R  R      C      H   H    I              |
00501> #                  5555  000     Y   R   R      CCCC  H   H  IIIII            |
00502> #-----------------------------------------------------------------------------|
00503> #*****************************************************************************
00504> #                              50-YEAR, 3 HOUR CHICAGO STORM
00505> #*****************************************************************************
00506> #-----------------|-------------------------------------------------------------|
00507>  001:0074-----------------------------------------------------------------------
00508>      CHICAGO STORM
00509>       [SDT= 5.00:SDUR=   3.00:PTOT=  62.85]
00510>       {A/B/C= 872.670/   1.500/    .717: R=.9997}
00511> #-----------------|-------------------------------------------------------------|
00512> #-----------------|-------------------------------------------------------------|
00513> #-----------------|--------------- West Catchment Area ----------------------|
00514> #-----------------|--------------- Unnamed Tributary ----------------------|
00515>  001:0075---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00516>      CALIB NASHYD       01:Ext 1         41.20    1.454 No_date    1:46   22.13
00517>       [CN= 74.1: N= 3.00]
00518>       [Tp=  .57:DT= 1.00]
00519> #-----------------|-------------------------------------------------------------|
00520>  001:0076---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00521>      ROUTE CHANNEL   -> 01:Ext 1         41.20    1.454 No_date    1:46   22.13
00522>       [RDT= 1.00] out<- 02:SiteLag       41.20    1.403 No_date    1:57   22.13
00523>       [L/S/n=  425./ .960/.035]
00524>       {Vmax=  .786:Dmax=  .388}
00525>  001:0077---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00526>      CALIB NASHYD       03:Pre 2         14.85     .423 No_date    2:03   21.50
00527>       [CN= 74.0: N= 3.00]
00528>       [Tp=  .75:DT= 1.00]
00529> #-----------------|-------------------------------------------------------------|
00530>  001:0078---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00531>      ADD HYD            02:SiteLag       41.20    1.403 No_date    1:57   22.13
00532>                       +  03:Pre 2         14.85     .423 No_date    2:03   21.50
00533>       [DT= 1.00]  SUM=  04:S PL          56.05    1.823 No_date    1:58   21.97
00534> #-----------------|-------------------------------------------------------------|
00535>  001:0079---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00536>      ROUTE CHANNEL   -> 04:S PL          56.05    1.823 No_date    1:58   21.97
00537>       [RDT= 1.00] out<- 05:DS Lag        56.05    1.816 No_date    2:01   21.97
00538>       [L/S/n=  150./ .960/.035]
00539>       {Vmax=  .782:Dmax=  .416}
00540>  001:0080---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
```

```
00541>      CALIB NASHYD       06:Ext 3          1.55     .054 No_date    1:39   19.91
00542>       [CN= 74.4: N= 3.00]
00543>       [Tp=  .47:DT= 1.00]
00544> #-----------------|-------------------------------------------------------------|
00545>  001:0081---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00546>      ADD HYD            05:DS Lag        56.05    1.816 No_date    2:01   21.97
00547>                       +  06:Ext 3          1.55     .054 No_date    1:39   19.91
00548>       [DT= 1.00]  SUM=  07:Outlet        57.60    1.862 No_date    2:01   21.92
00549> #-----------------|-------------------------------------------------------------|
00550> #-----------------|-------------------------------------------------------------|
00551> #-----------------|---------------- East Catchment Area ----------------------|
00552>  001:0082---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00553>      CALIB NASHYD       01:Ext 2        417.20    6.512 No_date    3:30   21.57
00554>       [CN= 74.7: N= 3.00]
00555>       [Tp= 1.87:DT= 1.00]
00556>  001:0083---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00557>      ROUTE CHANNEL   -> 01:Ext 2        417.20    6.512 No_date    3:30   21.57
00558>       [RDT= 1.00] out<- 02:SiteLag      417.20    6.478 No_date    3:40   21.57
00559>       [L/S/n=  550./ .650/.035]
00560>       {Vmax= 1.144:Dmax= 1.305}
00561>  001:0084---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00562>      CALIB NASHYD       03:Pre 3         29.18     .995 No_date    1:53   23.07
00563>       [CN= 76.2: N= 3.00]
00564>       [Tp=  .64:DT= 1.00]
00565> #-----------------|-------------------------------------------------------------|
00566>  001:0085---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00567>      ADD HYD            02:SiteLag      417.20    6.478 No_date    3:40   21.57
00568>                       +  03:Pre 3         29.18     .995 No_date    1:53   23.07
00569>       [DT= 1.00]  SUM=  04:S PL         446.38    6.789 No_date    3:29   21.67
00570> #-----------------|-------------------------------------------------------------|
00571>  001:0086---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00572>      ROUTE CHANNEL   -> 04:S PL         446.38    6.789 No_date    3:29   21.67
00573>       [RDT= 1.00] out<- 05:DS Lag       446.38    6.755 No_date    3:41   21.67
00574>       [L/S/n=  550./ .650/.035]
00575>       {Vmax= 1.133:Dmax= 1.317}
00576>  001:0087---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00577>      CALIB NASHYD       06:Ext 4          6.30     .131 No_date    1:56   14.64
00578>       [CN= 64.8: N= 3.00]
00579>       [Tp=  .64:DT= 1.00]
00580> #-----------------|-------------------------------------------------------------|
00581>  001:0088---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00582>      ADD HYD            05:DS Lag       446.38    6.755 No_date    3:41   21.67
00583>                       +  06:Ext 4          6.30     .131 No_date    1:56   14.64
00584>       [DT= 1.00]  SUM=  08:Outlet       452.68    6.797 No_date    3:40   21.57
00585> #-----------------|-------------------------------------------------------------|
00586>  001:0089---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00587>      ADD HYD            07:Outlet        57.60    1.862 No_date    2:01   21.92
00588>                       +  08:Outlet       452.68    6.797 No_date    3:40   21.57
00589>       [DT= 1.00]  SUM=  09:Tot Area     510.28    7.524 No_date    3:23   21.61
00590> #-----------------|-------------------------------------------------------------|
00591>  001:0090---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00592>      SAVE HYD           07:Outlet        57.60    1.862 No_date    2:01   21.92
00593>       fname :C:\SWMHYMO\projects\1060-4~2\C10yTUT.txt
00594>       remark:Total FLow in Unnamed Tributary in 10yr CHI
00595>  001:0091---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00596>      SAVE HYD           08:Outlet       452.68    6.797 No_date    3:40   21.57
00597>       fname :C:\SWMHYMO\projects\1060-4~2\C10yTFD.txt
00598>       remark:Total FLow in Foley Drain in 10yr CHI
00599> #-----------------|-------------------------------------------------------------|
00600> #           11   000    000   Y   Y  RRRR       CCCC  H   H  IIIII          |
00601> #         1 1   0    0 0   0   Y Y   R   R      C      H   H    I            |
00602> #           1   0    0 0   0    Y    RRRR       C      HHHHH    I            |
00603> #           1   0    0 0   0    Y    R  R       C      H   H    I            |
00604> #          11111  000    000    Y    R   R      CCCC  H   H  IIIII          |
00605> #-----------------|-------------------------------------------------------------|
00606> ***********************************************************************************
00607> #                             100-YEAR, 3 HOUR CHICAGO STORM
00608> ***********************************************************************************
00609> #-----------------|-------------------------------------------------------------|
00610>  001:0092---------------------------------------------------------------------------
00611>      CHICAGO STORM
00612>       [SDT= 5.00:SDUR=   3.00:PTOT=  69.31]
00613>       {A/B/C= 962.361/   1.500/    .717: R=.9997}
00614> #-----------------|-------------------------------------------------------------|
00615> #-----------------|---------------- West Catchment Area ----------------------|
00616> #-----------------|---------------- Unnamed Tributary ------------------------|
00617>  001:0093---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00618>      CALIB NASHYD       01:Ext 1         41.20    1.742 No_date    1:46   26.29
00619>       [CN= 74.1: N= 3.00]
00620>       [Tp=  .57:DT= 1.00]
00621> #-----------------|-------------------------------------------------------------|
00622>  001:0094---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00623>      ROUTE CHANNEL   -> 01:Ext 1         41.20    1.742 No_date    1:46   26.29
00624>       [RDT= 1.00] out<- 02:SiteLag       41.20    1.678 No_date    1:56   26.29
00625>       [L/S/n=  425./ .960/.035]
00626>       {Vmax=  .783:Dmax=  .410}
00627>  001:0095---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00628>      CALIB NASHYD       03:Pre 2         14.85     .508 No_date    2:02   25.62
00629>       [CN= 74.0: N= 3.00]
00630>       [Tp=  .75:DT= 1.00]
00631> #-----------------|-------------------------------------------------------------|
00632>  001:0096---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00633>      ADD HYD            02:SiteLag       41.20    1.678 No_date    1:56   26.29
00634>                       +  03:Pre 2         14.85     .508 No_date    2:02   25.62
00635>       [DT= 1.00]  SUM=  04:S PL         56.05    2.183 No_date    1:57   26.12
00636> #-----------------|-------------------------------------------------------------|
00637>  001:0097---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00638>      ROUTE CHANNEL   -> 04:S PL         56.05    2.183 No_date    1:57   26.12
00639>       [RDT= 1.00] out<- 05:DS Lag       56.05    2.174 No_date    2:01   26.12
00640>       [L/S/n=  150./ .960/.035]
00641>       {Vmax=  .770:Dmax=  .434}
00642>  001:0098---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00643>      CALIB NASHYD       06:Ext 3          1.55     .066 No_date    1:39   23.98
00644>       [CN= 74.4: N= 3.00]
00645>       [Tp=  .47:DT= 1.00]
00646> #-----------------|-------------------------------------------------------------|
00647>  001:0099---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00648>      ADD HYD            05:DS Lag        56.05    2.174 No_date    2:01   26.12
00649>                       +  06:Ext 3          1.55     .066 No_date    1:39   23.98
00650>       [DT= 1.00]  SUM=  07:Outlet        57.60    2.229 No_date    2:01   26.06
00651> #-----------------|-------------------------------------------------------------|
00652> #-----------------|-------------------------------------------------------------|
00653> #-----------------|---------------- East Catchment Area ----------------------|
00654>  001:0100---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00655>      CALIB NASHYD       01:Ext 2        417.20    7.774 No_date    3:29   25.74
00656>       [CN= 74.7: N= 3.00]
00657>       [Tp= 1.87:DT= 1.00]
00658>  001:0101---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00659>      ROUTE CHANNEL   -> 01:Ext 2        417.20    7.774 No_date    3:29   25.74
00660>       [RDT= 1.00] out<- 02:SiteLag      417.20    7.723 No_date    3:40   25.74
00661>       [L/S/n=  550./ .650/.035]
00662>       {Vmax= 1.098:Dmax= 1.359}
00663>  001:0102---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00664>      CALIB NASHYD       03:Pre 3         29.18    1.193 No_date    1:52   27.41
00665>       [CN= 76.2: N= 3.00]
00666>       [Tp=  .64:DT= 1.00]
00667> #-----------------|-------------------------------------------------------------|
00668>  001:0103---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00669>      ADD HYD            02:SiteLag      417.20    7.723 No_date    3:40   25.74
00670>                       +  03:Pre 3         29.18    1.193 No_date    1:52   27.41
00671>       [DT= 1.00]  SUM=  04:S PL         446.38    8.096 No_date    3:31   25.85
00672> #-----------------|-------------------------------------------------------------|
00673>  001:0104---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00674>      ROUTE CHANNEL   -> 04:S PL         446.38    8.096 No_date    3:31   25.85
00675>       [RDT= 1.00] out<- 05:DS Lag       446.38    8.051 No_date    3:39   25.85
00676>       [L/S/n=  550./ .650/.035]
00677>       {Vmax= 1.099:Dmax= 1.367}
00678>  001:0105---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00679>      CALIB NASHYD       06:Ext 4          6.30     .161 No_date    1:55   17.83
00680>       [CN= 64.8: N= 3.00]
00681>       [Tp=  .64:DT= 1.00]
00682> #-----------------|-------------------------------------------------------------|
00683>  001:0106---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00684>      ADD HYD            05:DS Lag       446.38    8.051 No_date    3:39   25.85
00685>                       +  06:Ext 4          6.30     .161 No_date    1:55   17.83
00686>       [DT= 1.00]  SUM=  08:Outlet       452.68    8.103 No_date    3:38   25.74
00687> #-----------------|-------------------------------------------------------------|
00688>  001:0107---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00689>      ADD HYD            07:Outlet        57.60    2.229 No_date    2:01   26.06
00690>                       +  08:Outlet       452.68    8.103 No_date    3:38   25.74
00691>       [DT= 1.00]  SUM=  09:Tot Area     510.28    8.955 No_date    3:25   25.78
00692> #-----------------|-------------------------------------------------------------|
00693>  001:0108---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00694>      SAVE HYD           07:Outlet        57.60    2.229 No_date    2:01   26.06
00695>       fname :C:\SWMHYMO\projects\1060-4~2\C100yTUT.txt
00696>       remark:Total FLow in Unnamed Tributary in 100yr CHI
00697>  001:0109---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00698>      SAVE HYD           08:Outlet       452.68    8.103 No_date    3:38   25.74
00699>       fname :C:\SWMHYMO\projects\1060-4~2\C100yTFD.txt
00700>       remark:Total FLow in Foley Drain in 100yr CHI
00701> #-----------------|-------------------------------------------------------------|
00702> #-----------------|-------------------------------------------------------------|
00703> #                     2222   Y   Y  RRRR       SSSS   CCCC   SSSS               |
00704> #                        2    Y Y   R   R     S      C      S                   |
00705> #                     2222     Y    RRRR       SSSS  C       SSSS               |
00706> #                     2        Y    R  R            S C           S            |
00707> #                     2222     Y    R   R      SSSS   CCCC   SSSS               |
00708> #-----------------|-------------------------------------------------------------|
00709> #-----------------|---------------- 2 YEAR -----------------------------------|
00710> #-----------------|-------------------------------------------------------------|
00711> #-----------------|-------------------------------------------------------------|
00712>  001:0110---------------------------------------------------------------------------
00713>      MASS STORM
00714>       Filename = C:\SWMHYMO\projects\1060-4~2\SCS24H.MST
00715>       Comment  = SCS Type II 24 HR MASS CURVE
00716>       [SDT=15.00:SDUR=  24.00:PTOT=  55.50]
00717> #-----------------|-------------------------------------------------------------|
00718> #-----------------|---------------- West Catchment Area ----------------------|
00719> #-----------------|---------------- Unnamed Tributary ------------------------|
00720>  001:0111---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00721>      CALIB NASHYD       01:Ext 1         41.20     .863 No_date   12:32   17.66
00722>       [CN= 74.1: N= 3.00]
00723>       [Tp=  .57:DT= 1.00]
00724> #-----------------|-------------------------------------------------------------|
00725>  001:0112---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00726>      ROUTE CHANNEL   -> 01:Ext 1         41.20     .863 No_date   12:32   17.66
00727>       [RDT= 1.00] out<- 02:SiteLag       41.20     .828 No_date   12:41   17.66
00728>       [L/S/n=  425./ .960/.035]
00729>       {Vmax=  .769:Dmax=  .328}
00730>  001:0113---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00731>      CALIB NASHYD       03:Pre 2         14.85     .246 No_date   12:45   17.08
00732>       [CN= 74.0: N= 3.00]
00733>       [Tp=  .75:DT= 1.00]
00734> #-----------------|-------------------------------------------------------------|
00735>  001:0114---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00736>      ADD HYD            02:SiteLag       41.20     .828 No_date   12:41   17.66
00737>                       +  03:Pre 2         14.85     .246 No_date   12:45   17.08
00738>       [DT= 1.00]  SUM=  04:S PL         56.05    1.073 No_date   12:42   17.51
00739> #-----------------|-------------------------------------------------------------|
00740>  001:0115---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00741>      ROUTE CHANNEL   -> 04:S PL         56.05    1.073 No_date   12:42   17.51
00742>       [RDT= 1.00] out<- 05:DS Lag       56.05    1.068 No_date   12:45   17.51
00743>       [L/S/n=  150./ .960/.035]
00744>       {Vmax=  .782:Dmax=  .355}
00745>  001:0116---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00746>      CALIB NASHYD       06:Ext 3          1.55     .032 No_date   12:25   15.58
00747>       [CN= 74.4: N= 3.00]
00748>       [Tp=  .47:DT= 1.00]
00749> #-----------------|-------------------------------------------------------------|
00750>  001:0117---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00751>      ADD HYD            05:DS Lag        56.05    1.068 No_date   12:45   17.51
00752>                       +  06:Ext 3          1.55     .032 No_date   12:25   15.58
00753>       [DT= 1.00]  SUM=  07:Outlet        57.60    1.095 No_date   12:44   17.45
00754> #-----------------|-------------------------------------------------------------|
00755> #-----------------|-------------------------------------------------------------|
00756> #-----------------|---------------- East Catchment Area ----------------------|
00757>  001:0118---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00758>      CALIB NASHYD       01:Ext 2        417.20    3.457 No_date   14:08   17.10
00759>       [CN= 74.7: N= 3.00]
00760>       [Tp= 1.87:DT= 1.00]
00761>  001:0119---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00762>      ROUTE CHANNEL   -> 01:Ext 2        417.20    3.457 No_date   14:08   17.10
00763>       [RDT= 1.00] out<- 02:SiteLag      417.20    3.447 No_date   14:14   17.10
00764>       [L/S/n=  550./ .650/.035]
00765>       {Vmax= 1.115:Dmax= 1.098}
00766>  001:0120---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00767>      CALIB NASHYD       03:Pre 3         29.18     .589 No_date   12:37   18.40
00768>       [CN= 76.2: N= 3.00]
00769>       [Tp=  .64:DT= 1.00]
00770> #-----------------|-------------------------------------------------------------|
00771>  001:0121---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00772>      ADD HYD            02:SiteLag       417.20    3.447 No_date   14:14   17.10
00773>                       +  03:Pre 3         29.18     .589 No_date   12:37   18.40
00774>       [DT= 1.00]  SUM=  04:S PL         446.38    3.620 No_date   14:06   17.19
00775> #-----------------|-------------------------------------------------------------|
00776>  001:0122---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00777>      ROUTE CHANNEL   -> 04:S PL         446.38    3.620 No_date   14:06   17.19
00778>       [RDT= 1.00] out<- 05:DS Lag       446.38    3.610 No_date   14:13   17.19
00779>       [L/S/n=  550./ .650/.035]
00780>       {Vmax= 1.132:Dmax= 1.117}
00781>  001:0123---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00782>      CALIB NASHYD       06:Ext 4          6.30     .073 No_date   12:39   11.28
00783>       [CN= 64.8: N= 3.00]
00784>       [Tp=  .64:DT= 1.00]
00785> #-----------------|-------------------------------------------------------------|
00786>  001:0124---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00787>      ADD HYD            05:DS Lag       446.38    3.610 No_date   14:13   17.19
00788>                       +  06:Ext 4          6.30     .073 No_date   12:39   11.28
00789>       [DT= 1.00]  SUM=  08:Outlet       452.68    3.633 No_date   14:12   17.11
00790> #-----------------|-------------------------------------------------------------|
00791>  001:0125---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00792>      ADD HYD            07:Outlet        57.60    1.095 No_date   12:44   17.45
00793>                       +  08:Outlet       452.68    3.633 No_date   14:12   17.11
00794>       [DT= 1.00]  SUM=  09:Tot Area     510.28    4.022 No_date   13:54   17.14
00795> #-----------------|-------------------------------------------------------------|
00796>  001:0126---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00797>      SAVE HYD           07:Outlet        57.60    1.095 No_date   12:44   17.45
00798>       fname :C:\SWMHYMO\projects\1060-4~2\S2yTUT.txt
00799>       remark:Total FLow in Unnamed Tributary in 2yr SCS
00800>  001:0127---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00801>      SAVE HYD           08:Outlet       452.68    3.633 No_date   14:12   17.11
00802>       fname :C:\SWMHYMO\projects\1060-4~2\S2yTFD.txt
00803>       remark:Total FLow in Foley Drain in 2yr SCS
00804> #-----------------|-------------------------------------------------------------|
00805> #-----------------|-------------------------------------------------------------|
00806> #                     5555   Y   Y  RRRR       SSSS   CCCC   SSSS               |
00807> #                     5       Y Y   R   R     S      C      S                   |
00808> #                     5555     Y    RRRR       SSSS  C       SSSS               |
00809> #                        5     Y    R  R            S C           S            |
00810> #                     5555     Y    R   R      SSSS   CCCC   SSSS               |
```

```
00811> #-----------------|-------------------------------------------------------------|
00812> #-----------------|-------------------------------------------------------------|
00813> #-----------------|---------- 5 YEAR ---------------------------------------------|
00814> #-----------------|-------------------------------------------------------------|
00815>  001:0128-------------------------------------------------------------------------
00816>      MASS STORM
00817>       Filename = C:\SWMHYMO\projects\1060-4~2\SCS24H.MST
00818>       Comment  = SCS Type II 24 HR MASS CURVE
00819>       [SDT=15.00:SDUR=  24.00:PTOT=  75.10]
00820> #-----------------|-------------------------------------------------------------|
00821> #-----------------|-------------------------------------------------------------|
00822> #-----------------|--------------- West Catchment Area ----------------------|
00823> #-----------------|--------------- Unnamed Tributary ----------------------|
00824>  001:0129--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00825>      CALIB NASHYD       01:Ext 1          41.20    1.507 No_date   12:31   30.17
00826>       [CN= 74.1: N= 3.00]
00827>       [Tp=  .57:DT= 1.00]
00828> #-----------------|-------------------------------------------------------------|
00829>  001:0130--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00830>      ROUTE CHANNEL   -> 01:Ext 1         41.20    1.507 No_date   12:31   30.17
00831>       [RDT= 1.00] out<- 02:SiteLag       41.20    1.441 No_date   12:41   30.17
00832>       [L/S/n=  425./ .960/.035]
00833>       {Vmax=  .785:Dmax=  .392}
00834>  001:0131--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00835>      CALIB NASHYD       03:Pre 2          14.85     .434 No_date   12:44   29.47
00836>       [CN= 74.0: N= 3.00]
00837>       [Tp=  .75:DT= 1.00]
00838> #-----------------|-------------------------------------------------------------|
00839>  001:0132--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00840>      ADD HYD            02:SiteLag        41.20    1.441 No_date   12:41   30.17
00841>                       +  03:Pre 2          14.85     .434 No_date   12:44   29.47
00842>       [DT= 1.00]  SUM=  04:S PL           56.05    1.874 No_date   12:41   29.99
00843> #-----------------|-------------------------------------------------------------|
00844>  001:0133--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00845>      ROUTE CHANNEL   -> 04:S PL           56.05    1.874 No_date   12:41   29.99
00846>       [RDT= 1.00] out<- 05:DS Lag        56.05    1.865 No_date   12:45   29.99
00847>       [L/S/n=  150./ .960/.035]
00848>       {Vmax=  .781:Dmax=  .419}
00849>  001:0134--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00850>      CALIB NASHYD       06:Ext 3           1.55     .060 No_date   12:24   27.79
00851>       [CN= 74.4: N= 3.00]
00852>       [Tp=  .47:DT= 1.00]
00853> #-----------------|-------------------------------------------------------------|
00854>  001:0135--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00855>      ADD HYD            05:DS Lag         56.05    1.865 No_date   12:45   29.99
00856>                       +  06:Ext 3           1.55     .060 No_date   12:24   27.79
00857>       [DT= 1.00]  SUM=  07:Outlet         57.60    1.913 No_date   12:45   29.93
00858> #-----------------|-------------------------------------------------------------|
00859> #-----------------|-------------------------------------------------------------|
00860> #-----------------|--------------- East Catchment Area ----------------------|
00861>  001:0136--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00862>      CALIB NASHYD       01:Ext 2         417.20    6.148 No_date   14:04   29.64
00863>       [CN= 74.7: N= 3.00]
00864>       [Tp= 1.87:DT= 1.00]
00865>  001:0137--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00866>      ROUTE CHANNEL   -> 01:Ext 2         417.20    6.148 No_date   14:04   29.64
00867>       [RDT= 1.00] out<- 02:SiteLag       417.20    6.122 No_date   14:14   29.64
00868>       [L/S/n=  550./ .650/.035]
00869>       {Vmax= 1.158:Dmax= 1.289}
00870>  001:0138--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00871>      CALIB NASHYD       03:Pre 3          29.18    1.031 No_date   12:36   31.46
00872>       [CN= 76.2: N= 3.00]
00873>       [Tp=  .64:DT= 1.00]
00874> #-----------------|-------------------------------------------------------------|
00875>  001:0139--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00876>      ADD HYD            02:SiteLag       417.20    6.122 No_date   14:14   29.64
00877>                       +  03:Pre 3          29.18    1.031 No_date   12:36   31.46
00878>       [DT= 1.00]  SUM=  04:S PL          446.38    6.402 No_date   14:08   29.76
00879> #-----------------|-------------------------------------------------------------|
00880>  001:0140--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00881>      ROUTE CHANNEL   -> 04:S PL          446.38    6.402 No_date   14:08   29.76
00882>       [RDT= 1.00] out<- 05:DS Lag        446.38    6.374 No_date   14:18   29.76
00883>       [L/S/n=  550./ .650/.035]
00884>       {Vmax= 1.148:Dmax= 1.300}
00885>  001:0141--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00886>      CALIB NASHYD       06:Ext 4           6.30     .141 No_date   12:38   20.87
00887>       [CN= 64.8: N= 3.00]
00888>       [Tp=  .64:DT= 1.00]
00889> #-----------------|-------------------------------------------------------------|
00890>  001:0142--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00891>      ADD HYD            05:DS Lag        446.38    6.374 No_date   14:18   29.76
00892>                       +  06:Ext 4           6.30     .141 No_date   12:38   20.87
00893>       [DT= 1.00]  SUM=  08:Outlet        452.68    6.413 No_date   14:17   29.64
00894> #-----------------|-------------------------------------------------------------|
00895>  001:0143--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00896>      ADD HYD            07:Outlet         57.60    1.913 No_date   12:45   29.93
00897>                       +  08:Outlet        452.68    6.413 No_date   14:17   29.64
00898>       [DT= 1.00]  SUM=  09:Tot Area      510.28    7.013 No_date   13:55   29.67
00899> #-----------------|-------------------------------------------------------------|
00900>  001:0144--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00901>      SAVE HYD           07:Outlet         57.60    1.913 No_date   12:45   29.93
00902>       fname :C:\SWMHYMO\projects\1060-4~2\S2yTUT.txt
00903>       remark:Total FLow in Unnamed Tributary in 2yr SCS
00904>  001:0145--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00905>      SAVE HYD           08:Outlet        452.68    6.413 No_date   14:17   29.64
00906>       fname :C:\SWMHYMO\projects\1060-4~2\S2yTFD.txt
00907>       remark:Total FLow in Foley Drain in 2yr SCS
00908> #-----------------|-------------------------------------------------------------|
00909> #-----------------|-------------------------------------------------------------|
00910> #               11     000   Y   Y  RRRR       SSSS   CCCC   SSSS            |
00911> #             1 1    0   0   Y Y   R   R     S      C      S                 |
00912> #               1    0   0    Y    RRRR       SSSS  C       SSSS             |
00913> #               1    0   0    Y    R  R            S C            S         |
00914> #             11111   000     Y    R   R      SSSS   CCCC   SSSS            |
00915> #-----------------|-------------------------------------------------------------|
00916> #-----------------|-------------------------------------------------------------|
00917> #-----------------|-------- 10 YEAR ------------------------------------------|
00918> #-----------------|-------------------------------------------------------------|
00919>  001:0146-------------------------------------------------------------------------
00920>      MASS STORM
00921>       Filename = C:\SWMHYMO\projects\1060-4~2\SCS24H.MST
00922>       Comment  = SCS Type II 24 HR MASS CURVE
00923>       [SDT=15.00:SDUR=  24.00:PTOT=  88.10]
00924> #-----------------|-------------------------------------------------------------|
00925> #-----------------|--------------- West Catchment Area ----------------------|
00926> #-----------------|--------------- Unnamed Tributary ----------------------|
00927>  001:0147--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00928>      CALIB NASHYD       01:Ext 1          41.20    1.983 No_date   12:31   39.37
00929>       [CN= 74.1: N= 3.00]
00930>       [Tp=  .57:DT= 1.00]
00931> #-----------------|-------------------------------------------------------------|
00932>  001:0148--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00933>      ROUTE CHANNEL   -> 01:Ext 1         41.20    1.983 No_date   12:31   39.37
00934>       [RDT= 1.00] out<- 02:SiteLag       41.20    1.893 No_date   12:41   39.37
00935>       [L/S/n=  425./ .960/.035]
00936>       {Vmax=  .777:Dmax=  .424}
00937>  001:0149--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00938>      CALIB NASHYD       03:Pre 2          14.85     .574 No_date   12:43   38.61
00939>       [CN= 74.0: N= 3.00]
00940>       [Tp=  .75:DT= 1.00]
00941> #-----------------|-------------------------------------------------------------|
00942>  001:0150--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00943>      ADD HYD            02:SiteLag        41.20    1.893 No_date   12:41   39.37
00944>                       +  03:Pre 2          14.85     .574 No_date   12:43   38.61
00945>       [DT= 1.00]  SUM=  04:S PL           56.05    2.467 No_date   12:41   39.17
00946> #-----------------|-------------------------------------------------------------|
00947>  001:0151--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00948>      ROUTE CHANNEL   -> 04:S PL           56.05    2.467 No_date   12:41   39.17
00949>       [RDT= 1.00] out<- 05:DS Lag        56.05    2.452 No_date   12:45   39.17
00950>       [L/S/n=  150./ .960/.035]
00951>       {Vmax=  .760:Dmax=  .447}
00952>  001:0152--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00953>      CALIB NASHYD       06:Ext 3           1.55     .081 No_date   12:24   36.86
00954>       [CN= 74.4: N= 3.00]
00955>       [Tp=  .47:DT= 1.00]
00956> #-----------------|-------------------------------------------------------------|
00957>  001:0153--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00958>      ADD HYD            05:DS Lag        56.05    2.452 No_date   12:45   39.17
00959>                       +  06:Ext 3           1.55     .081 No_date   12:24   36.86
00960>       [DT= 1.00]  SUM=  07:Outlet         57.60    2.516 No_date   12:45   39.11
00961> #-----------------|-------------------------------------------------------------|
00962> #-----------------|-------------------------------------------------------------|
00963> #-----------------|--------------- East Catchment Area ----------------------|
00964>  001:0154--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00965>      CALIB NASHYD       01:Ext 2         417.20    8.144 No_date   14:03   38.88
00966>       [CN= 74.7: N= 3.00]
00967>       [Tp= 1.87:DT= 1.00]
00968>  001:0155--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00969>      ROUTE CHANNEL   -> 01:Ext 2         417.20    8.144 No_date   14:03   38.88
00970>       [RDT= 1.00] out<- 02:SiteLag       417.20    8.108 No_date   14:12   38.88
00971>       [L/S/n=  550./ .650/.035]
00972>       {Vmax= 1.099:Dmax= 1.368}
00973>  001:0156--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00974>      CALIB NASHYD       03:Pre 3          29.18    1.356 No_date   12:36   41.00
00975>       [CN= 76.2: N= 3.00]
00976>       [Tp=  .64:DT= 1.00]
00977> #-----------------|-------------------------------------------------------------|
00978>  001:0157--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00979>      ADD HYD            02:SiteLag       417.20    8.108 No_date   14:12   38.88
00980>                       +  03:Pre 3          29.18    1.356 No_date   12:36   41.00
00981>       [DT= 1.00]  SUM=  04:S PL          446.38    8.481 No_date   14:06   39.02
00982> #-----------------|-------------------------------------------------------------|
00983>  001:0158--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00984>      ROUTE CHANNEL   -> 04:S PL          446.38    8.481 No_date   14:06   39.02
00985>       [RDT= 1.00] out<- 05:DS Lag        446.38    8.445 No_date   14:14   39.02
00986>       [L/S/n=  550./ .650/.035]
00987>       {Vmax= 1.099:Dmax= 1.376}
00988>  001:0159--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00989>      CALIB NASHYD       06:Ext 4           6.30     .194 No_date   12:37   28.23
00990>       [CN= 64.8: N= 3.00]
00991>       [Tp=  .64:DT= 1.00]
00992> #-----------------|-------------------------------------------------------------|
00993>  001:0160--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00994>      ADD HYD            05:DS Lag        446.38    8.445 No_date   14:14   39.02
00995>                       +  06:Ext 4           6.30     .194 No_date   12:37   28.23
00996>       [DT= 1.00]  SUM=  08:Outlet        452.68    8.498 No_date   14:14   38.87
00997> #-----------------|-------------------------------------------------------------|
00998>  001:0161--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00999>      ADD HYD            07:Outlet         57.60    2.516 No_date   12:45   39.11
01000>                       +  08:Outlet        452.68    8.498 No_date   14:14   38.87
01001>       [DT= 1.00]  SUM=  09:Tot Area      510.28    9.289 No_date   13:59   38.89
01002> #-----------------|-------------------------------------------------------------|
01003>  001:0162--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01004>      SAVE HYD           07:Outlet         57.60    2.516 No_date   12:45   39.11
01005>       fname :C:\SWMHYMO\projects\1060-4~2\S10yTUT.txt
01006>       remark:Total FLow in Unnamed Tributary in 10yr SCS
01007>  001:0163--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01008>      SAVE HYD           08:Outlet        452.68    8.498 No_date   14:14   38.87
01009>       fname :C:\SWMHYMO\projects\1060-4~2\S10yTFD.txt
01010>       remark:Total FLow in Foley Drain in 10yr SCS
01011> #-----------------|-------------------------------------------------------------|
01012> #-----------------|-------------------------------------------------------------|
01013> #               2222  5555    Y    Y  RRRR      SSSS   CCCC   SSSS            |
01014> #                  2  5      Y Y   R    R     S      C      S                 |
01015> #               2222  5555     Y    RRRR       SSSS  C       SSSS             |
01016> #               2        5     Y    R  R            S C            S         |
01017> #               2222  5555     Y    R   R      SSSS   CCCC   SSSS            |
01018> #-----------------|-------------------------------------------------------------|
01019> #-----------------|-------------------------------------------------------------|
01020> #-----------------|---------- 25 YEAR ----------------------------------------|
01021> #-----------------|-------------------------------------------------------------|
01022>  001:0164-------------------------------------------------------------------------
01023>      MASS STORM
01024>       Filename = C:\SWMHYMO\projects\1060-4~2\SCS24H.MST
01025>       Comment  = SCS Type II 24 HR MASS CURVE
01026>       [SDT=15.00:SDUR=  24.00:PTOT= 104.50]
01027> #-----------------|-------------------------------------------------------------|
01028> #-----------------|-------------------------------------------------------------|
01029> #-----------------|--------------- West Catchment Area ----------------------|
01030> #-----------------|--------------- Unnamed Tributary ----------------------|
01031>  001:0165--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01032>      CALIB NASHYD       01:Ext 1          41.20    2.626 No_date   12:30   51.73
01033>       [CN= 74.1: N= 3.00]
01034>       [Tp=  .57:DT= 1.00]
01035> #-----------------|-------------------------------------------------------------|
01036>  001:0166--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01037>      ROUTE CHANNEL   -> 01:Ext 1         41.20    2.626 No_date   12:30   51.73
01038>       [RDT= 1.00] out<- 02:SiteLag       41.20    2.494 No_date   12:41   51.73
01039>       [L/S/n=  425./ .960/.035]
01040>       {Vmax=  .755:Dmax=  .455}
01041>  001:0167--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01042>      CALIB NASHYD       03:Pre 2          14.85     .764 No_date   12:43   50.91
01043>       [CN= 74.0: N= 3.00]
01044>       [Tp=  .75:DT= 1.00]
01045> #-----------------|-------------------------------------------------------------|
01046>  001:0168--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01047>      ADD HYD            02:SiteLag       41.20    2.494 No_date   12:41   51.73
01048>                       +  03:Pre 2          14.85     .764 No_date   12:43   50.91
01049>       [DT= 1.00]  SUM=  04:S PL           56.05    3.257 No_date   12:42   51.51
01050> #-----------------|-------------------------------------------------------------|
01051>  001:0169--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01052>      ROUTE CHANNEL   -> 04:S PL           56.05    3.257 No_date   12:42   51.51
01053>       [RDT= 1.00] out<- 05:DS Lag        56.05    3.241 No_date   12:45   51.51
01054>       [L/S/n=  150./ .960/.035]
01055>       {Vmax=  .748:Dmax=  .478}
01056>  001:0170--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01057>      CALIB NASHYD       06:Ext 3           1.55     .109 No_date   12:23   49.09
01058>       [CN= 74.4: N= 3.00]
01059>       [Tp=  .47:DT= 1.00]
01060> #-----------------|-------------------------------------------------------------|
01061>  001:0171--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01062>      ADD HYD            05:DS Lag        56.05    3.241 No_date   12:45   51.51
01063>                       +  06:Ext 3           1.55     .109 No_date   12:23   49.09
01064>       [DT= 1.00]  SUM=  07:Outlet         57.60    3.326 No_date   12:44   51.45
01065> #-----------------|-------------------------------------------------------------|
01066> #-----------------|-------------------------------------------------------------|
01067> #-----------------|--------------- East Catchment Area ----------------------|
01068>  001:0172--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01069>      CALIB NASHYD       01:Ext 2         417.20   10.839 No_date   14:01   51.29
01070>       [CN= 74.7: N= 3.00]
01071>       [Tp= 1.87:DT= 1.00]
01072>  001:0173--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01073>      ROUTE CHANNEL   -> 01:Ext 2         417.20   10.839 No_date   14:01   51.29
01074>       [RDT= 1.00] out<- 02:SiteLag       417.20   10.795 No_date   14:10   51.29
01075>       [L/S/n=  550./ .650/.035]
01076>       {Vmax= 1.103:Dmax= 1.436}
01077>  001:0174--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01078>      CALIB NASHYD       03:Pre 3          29.18    1.791 No_date   12:35   53.76
01079>       [CN= 76.2: N= 3.00]
01080>       [Tp=  .64:DT= 1.00]
```

```
01081> #-----------------|-------------------------------------------------------------|
01082>  001:0175---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01083>      ADD HYD            02:SiteLag      417.20   10.795 No_date   14:10   51.29
01084>                       +  03:Pre 3         29.18    1.791 No_date   12:35   53.76
01085>       [DT= 1.00]  SUM=  04:S PL         446.38   11.287 No_date   14:03   51.45
01086> #-----------------|-------------------------------------------------------------|
01087>  001:0176---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01088>      ROUTE CHANNEL   -> 04:S PL         446.38   11.287 No_date   14:03   51.45
01089>       [RDT= 1.00] out<- 05:DS Lag       446.38   11.245 No_date   14:12   51.45
01090>       [L/S/n=  550./ .650/.035]
01091>       {Vmax= 1.103:Dmax= 1.447}
01092>  001:0177---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01093>      CALIB NASHYD       06:Ext 4           6.30     .268 No_date   12:36   38.41
01094>       [CN= 64.8: N= 3.00]
01095>       [Tp=  .64:DT= 1.00]
01096> #-----------------|-------------------------------------------------------------|
01097>  001:0178---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01098>      ADD HYD            05:DS Lag       446.38   11.245 No_date   14:12   51.45
01099>                       +  06:Ext 4           6.30     .268 No_date   12:36   38.41
01100>       [DT= 1.00]  SUM=  08:Outlet        452.68   11.320 No_date   14:11   51.27
01101> #-----------------|-------------------------------------------------------------|
01102>  001:0179---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01103>      ADD HYD            07:Outlet        57.60    3.326 No_date   12:44   51.45
01104>                       +  08:Outlet        452.68   11.320 No_date   14:11   51.27
01105>       [DT= 1.00]  SUM=  09:Tot Area      510.28   12.432 No_date   13:50   51.29
01106> #-----------------|-------------------------------------------------------------|
01107>  001:0180---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01108>      SAVE HYD           07:Outlet        57.60    3.326 No_date   12:44   51.45
01109>       fname :C:\SWMHYMO\projects\1060-4~2\S10yTUT.txt
01110>       remark:Total FLow in Unnamed Tributary in 10yr SCS
01111>  001:0181---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01112>      SAVE HYD           08:Outlet        452.68   11.320 No_date   14:11   51.27
01113>       fname :C:\SWMHYMO\projects\1060-4~2\S10yTFD.txt
01114>       remark:Total FLow in Foley Drain in 10yr SCS
01115> #-----------------|-------------------------------------------------------------|
01116> #-----------------|-------------------------------------------------------------|
01117> #                 5555   000   Y   Y  RRRR       SSSS   CCCC   SSSS              |
01118> #                 5     0   0   Y Y   R   R     S      C      S                  |
01119> #                 5555  0   0    Y    RRRR       SSSS  C       SSSS              |
01120> #                    5  0   0    Y    R  R            S C          S             |
01121> #                 5555   000     Y    R   R      SSSS   CCCC   SSSS              |
01122> #-----------------|-------------------------------------------------------------|
01123> #-----------------|-------------------------------------------------------------|
01124> #-----------------|----------- 50 YEAR -------------------------------------------|
01125> #-----------------|-------------------------------------------------------------|
01126>  001:0182---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01127>      MASS STORM
01128>       Filename = C:\SWMHYMO\projects\1060-4~2\SCS24H.MST
01129>       Comment  = SCS Type II 24 HR MASS CURVE
01130>       [SDT=15.00:SDUR=  24.00:PTOT= 116.80]
01131> #-----------------|-------------------------------------------------------------|
01132> #-----------------|-------------------------------------------------------------|
01133> #-----------------|-------------------------------------------------------------|
01134> #-----------------|--------------- West Catchment Area ----------------------|
01135> #-----------------|--------------- Unnamed Tributary ----------------------|
01136>  001:0183---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01137>      CALIB NASHYD       01:Ext 1          41.20    3.131 No_date   12:30   61.43
01138>       [CN= 74.1: N= 3.00]
01139>       [Tp=  .57:DT= 1.00]
01140> #-----------------|-------------------------------------------------------------|
01141>  001:0184---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01142>      ROUTE CHANNEL   -> 01:Ext 1          41.20    3.131 No_date   12:30   61.43
01143>       [RDT= 1.00] out<- 02:SiteLag       41.20    2.963 No_date   12:41   61.43
01144>       [L/S/n=  425./ .960/.035]
01145>       {Vmax=  .747:Dmax=  .475}
01146>  001:0185---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01147>      CALIB NASHYD       03:Pre 2          14.85     .913 No_date   12:42   60.57
01148>       [CN= 74.0: N= 3.00]
01149>       [Tp=  .75:DT= 1.00]
01150> #-----------------|-------------------------------------------------------------|
01151>  001:0186---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01152>      ADD HYD            02:SiteLag       41.20    2.963 No_date   12:41   61.43
01153>                       +  03:Pre 2          14.85     .913 No_date   12:42   60.57
01154>       [DT= 1.00]  SUM=  04:S PL          56.05    3.875 No_date   12:41   61.21
01155> #-----------------|-------------------------------------------------------------|
01156>  001:0187---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01157>      ROUTE CHANNEL   -> 04:S PL          56.05    3.875 No_date   12:41   61.21
01158>       [RDT= 1.00] out<- 05:DS Lag       56.05    3.856 No_date   12:45   61.21
01159>       [L/S/n=  150./ .960/.035]
01160>       {Vmax=  .753:Dmax=  .495}
01161>  001:0188---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01162>      CALIB NASHYD       06:Ext 3           1.55     .131 No_date   12:23   58.74
01163>       [CN= 74.4: N= 3.00]
01164>       [Tp=  .47:DT= 1.00]
01165> #-----------------|-------------------------------------------------------------|
01166>  001:0189---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01167>      ADD HYD            05:DS Lag        56.05    3.856 No_date   12:45   61.21
01168>                       +  06:Ext 3           1.55     .131 No_date   12:23   58.74
01169>       [DT= 1.00]  SUM=  07:Outlet        57.60    3.959 No_date   12:44   61.14
01170> #-----------------|-------------------------------------------------------------|
01171> #-----------------|-------------------------------------------------------------|
01172> #-----------------|--------------- East Catchment Area ----------------------|
01173>  001:0190---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01174>      CALIB NASHYD       01:Ext 2         417.20   12.960 No_date   14:00   61.04
01175>       [CN= 74.7: N= 3.00]
01176>       [Tp= 1.87:DT= 1.00]
01177>  001:0191---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01178>      ROUTE CHANNEL   -> 01:Ext 2         417.20   12.960 No_date   14:00   61.04
01179>       [RDT= 1.00] out<- 02:SiteLag      417.20   12.911 No_date   14:08   61.04
01180>       [L/S/n=  550./ .650/.035]
01181>       {Vmax= 1.111:Dmax= 1.483}
01182>  001:0192---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01183>      CALIB NASHYD       03:Pre 3          29.18    2.132 No_date   12:35   63.74
01184>       [CN= 76.2: N= 3.00]
01185>       [Tp=  .64:DT= 1.00]
01186> #-----------------|-------------------------------------------------------------|
01187>  001:0193---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01188>      ADD HYD            02:SiteLag       417.20   12.911 No_date   14:08   61.04
01189>                       +  03:Pre 3          29.18    2.132 No_date   12:35   63.74
01190>       [DT= 1.00]  SUM=  04:S PL         446.38   13.503 No_date   14:02   61.22
01191> #-----------------|-------------------------------------------------------------|
01192>  001:0194---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01193>      ROUTE CHANNEL   -> 04:S PL         446.38   13.503 No_date   14:02   61.22
01194>       [RDT= 1.00] out<- 05:DS Lag       446.38   13.456 No_date   14:09   61.22
01195>       [L/S/n=  550./ .650/.035]
01196>       {Vmax= 1.115:Dmax= 1.492}
01197>  001:0195---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01198>      CALIB NASHYD       06:Ext 4           6.30     .327 No_date   12:36   46.60
01199>       [CN= 64.8: N= 3.00]
01200>       [Tp=  .64:DT= 1.00]
01201> #-----------------|-------------------------------------------------------------|
01202>  001:0196---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01203>      ADD HYD            05:DS Lag        446.38   13.456 No_date   14:09   61.22
01204>                       +  06:Ext 4           6.30     .327 No_date   12:36   46.60
01205>       [DT= 1.00]  SUM=  08:Outlet        452.68   13.549 No_date   14:08   61.01
01206> #-----------------|-------------------------------------------------------------|
01207>  001:0197---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01208>      ADD HYD            07:Outlet        57.60    3.959 No_date   12:44   61.14
01209>                       +  08:Outlet        452.68   13.549 No_date   14:08   61.01
01210>       [DT= 1.00]  SUM=  09:Tot Area      510.28   14.915 No_date   13:48   61.03
01211> #-----------------|-------------------------------------------------------------|
01212>  001:0198---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01213>      SAVE HYD           07:Outlet        57.60    3.959 No_date   12:44   61.14
01214>       fname :C:\SWMHYMO\projects\1060-4~2\S10yTUT.txt
01215>       remark:Total FLow in Unnamed Tributary in 10yr SCS
01216>  001:0199---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01217>      SAVE HYD           08:Outlet       452.68   13.549 No_date   14:08   61.01
01218>       fname :C:\SWMHYMO\projects\1060-4~2\S10yTFD.txt
01219>       remark:Total FLow in Foley Drain in 10yr SCS
01220> #-----------------|-------------------------------------------------------------|
01221> #-----------------|-------------------------------------------------------------|
01222> #            11     000    000   Y   Y  RRRR       SSSS   CCCC   SSSS             |
01223> #           1 1    0   0  0   0   Y Y   R   R     S      C      S                  |
01224> #             1    0   0  0   0    Y    RRRR       SSSS  C       SSSS              |
01225> #             1    0   0  0   0    Y    R  R            S C          S             |
01226> #            11111   000    000    Y    R   R      SSSS   CCCC   SSSS             |
01227> #-----------------|-------------------------------------------------------------|
01228> #-----------------|------- 100 YEAR ----------------------------------------------|
01229> #-----------------|-------------------------------------------------------------|
01230>  001:0200-----------------------------------------------------------------------------
01231>      MASS STORM
01232>       Filename = C:\SWMHYMO\projects\1060-4~2\SCS24H.MST
01233>       Comment  = SCS Type II 24 HR MASS CURVE
01234>       [SDT=15.00:SDUR=  24.00:PTOT= 128.80]
01235> #-----------------|-------------------------------------------------------------|
01236> #-----------------|--------------- West Catchment Area ----------------------|
01237> #-----------------|--------------- Unnamed Tributary ----------------------|
01238>  001:0201---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01239>      CALIB NASHYD       01:Ext 1          41.20    3.640 No_date   12:30   71.19
01240>       [CN= 74.1: N= 3.00]
01241>       [Tp=  .57:DT= 1.00]
01242> #-----------------|-------------------------------------------------------------|
01243>  001:0202---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01244>      ROUTE CHANNEL   -> 01:Ext 1          41.20    3.640 No_date   12:30   71.19
01245>       [RDT= 1.00] out<- 02:SiteLag       41.20    3.456 No_date   12:40   71.19
01246>       [L/S/n=  425./ .960/.035]
01247>       {Vmax=  .751:Dmax=  .489}
01248>  001:0203---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01249>      CALIB NASHYD       03:Pre 2          14.85    1.063 No_date   12:42   70.30
01250>       [CN= 74.0: N= 3.00]
01251>       [Tp=  .75:DT= 1.00]
01252> #-----------------|-------------------------------------------------------------|
01253>  001:0204---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01254>      ADD HYD            02:SiteLag       41.20    3.456 No_date   12:40   71.19
01255>                       +  03:Pre 2          14.85    1.063 No_date   12:42   70.30
01256>       [DT= 1.00]  SUM=  04:S PL          56.05    4.517 No_date   12:41   70.96
01257> #-----------------|-------------------------------------------------------------|
01258>  001:0205---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01259>      ROUTE CHANNEL   -> 04:S PL          56.05    4.517 No_date   12:41   70.96
01260>       [RDT= 1.00] out<- 05:DS Lag       56.05    4.493 No_date   12:44   70.96
01261>       [L/S/n=  150./ .960/.035]
01262>       {Vmax=  .759:Dmax=  .513}
01263>  001:0206---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01264>      CALIB NASHYD       06:Ext 3           1.55     .153 No_date   12:23   68.45
01265>       [CN= 74.4: N= 3.00]
01266>       [Tp=  .47:DT= 1.00]
01267> #-----------------|-------------------------------------------------------------|
01268>  001:0207---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01269>      ADD HYD            05:DS Lag        56.05    4.493 No_date   12:44   70.96
01270>                       +  06:Ext 3           1.55     .153 No_date   12:23   68.45
01271>       [DT= 1.00]  SUM=  07:Outlet        57.60    4.615 No_date   12:43   70.89
01272> #-----------------|-------------------------------------------------------------|
01273> #-----------------|-------------------------------------------------------------|
01274> #-----------------|--------------- East Catchment Area ----------------------|
01275>  001:0208---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01276>      CALIB NASHYD       01:Ext 2         417.20   15.094 No_date   13:59   70.85
01277>       [CN= 74.7: N= 3.00]
01278>       [Tp= 1.87:DT= 1.00]
01279>  001:0209---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01280>      ROUTE CHANNEL   -> 01:Ext 2         417.20   15.094 No_date   13:59   70.85
01281>       [RDT= 1.00] out<- 02:SiteLag      417.20   15.041 No_date   14:07   70.85
01282>       [L/S/n=  550./ .650/.035]
01283>       {Vmax= 1.129:Dmax= 1.519}
01284>  001:0210---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01285>      CALIB NASHYD       03:Pre 3          29.18    2.474 No_date   12:35   73.76
01286>       [CN= 76.2: N= 3.00]
01287>       [Tp=  .64:DT= 1.00]
01288> #-----------------|-------------------------------------------------------------|
01289>  001:0211---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01290>      ADD HYD            02:SiteLag       417.20   15.041 No_date   14:07   70.85
01291>                       +  03:Pre 3          29.18    2.474 No_date   12:35   73.76
01292>       [DT= 1.00]  SUM=  04:S PL         446.38   15.732 No_date   14:00   71.04
01293> #-----------------|-------------------------------------------------------------|
01294>  001:0212---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01295>      ROUTE CHANNEL   -> 04:S PL         446.38   15.732 No_date   14:00   71.04
01296>       [RDT= 1.00] out<- 05:DS Lag       446.38   15.682 No_date   14:08   71.04
01297>       [L/S/n=  550./ .650/.035]
01298>       {Vmax= 1.135:Dmax= 1.530}
01299>  001:0213---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01300>      CALIB NASHYD       06:Ext 4           6.30     .388 No_date   12:36   54.96
01301>       [CN= 64.8: N= 3.00]
01302>       [Tp=  .64:DT= 1.00]
01303> #-----------------|-------------------------------------------------------------|
01304>  001:0214---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01305>      ADD HYD            05:DS Lag        446.38   15.682 No_date   14:08   71.04
01306>                       +  06:Ext 4           6.30     .388 No_date   12:36   54.96
01307>       [DT= 1.00]  SUM=  08:Outlet        452.68   15.793 No_date   14:06   70.81
01308> #-----------------|-------------------------------------------------------------|
01309>  001:0215---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01310>      ADD HYD            07:Outlet        57.60    4.615 No_date   12:43   70.89
01311>                       +  08:Outlet        452.68   15.793 No_date   14:06   70.81
01312>       [DT= 1.00]  SUM=  09:Tot Area      510.28   17.456 No_date   13:44   70.82
01313> #-----------------|-------------------------------------------------------------|
01314>  001:0216---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01315>      SAVE HYD           07:Outlet        57.60    4.615 No_date   12:43   70.89
01316>       fname :C:\SWMHYMO\projects\1060-4~2\S100yTUT.txt
01317>       remark:Total FLow in Unnamed Tributary in 100yr SCS
01318>  001:0217---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01319>      SAVE HYD           08:Outlet       452.68   15.793 No_date   14:06   70.81
01320>       fname :C:\SWMHYMO\projects\1060-4~2\S100yTFD.txt
01321>       remark:Total FLow in Foley Drain in 100yr SCS
01322> #-----------------|-------------------------------------------------------------|
01323> #*****************************************************************************
01324> #                                   Regional Storm (Hazel)
01325> #*****************************************************************************
01326>  001:0218-----------------------------------------------------------------------------
01327>      READ STORM
01328>       Filename = hazel.stm
01329>       Comment  =
01330>       [SDT=60.00:SDUR=  12.00:PTOT= 212.00]
01331> #-----------------|-------------------------------------------------------------|
01332> #-----------------|--------------- West Catchment Area ----------------------|
01333> #-----------------|--------------- Unnamed Tributary ----------------------|
01334>  001:0219---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01335>      CALIB NASHYD       01:Ext 1          41.20    4.898 No_date   10:24  172.18
01336>       [CN= 86.3: N= 3.00]
01337>       [Tp=  .57:DT= 1.00]
01338> #-----------------|-------------------------------------------------------------|
01339>  001:0220---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01340>      ROUTE CHANNEL   -> 01:Ext 1          41.20    4.898 No_date   10:24  172.18
01341>       [RDT= 1.00] out<- 02:SiteLag       41.20    4.834 No_date   10:35  172.18
01342>       [L/S/n=  425./ .960/.035]
01343>       {Vmax=  .763:Dmax=  .522}
01344>  001:0221---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01345>      CALIB NASHYD       03:Pre 2          14.85    1.661 No_date   10:47  175.37
01346>       [CN= 88.0: N= 3.00]
01347>       [Tp=  .75:DT= 1.00]
01348> #-----------------|-------------------------------------------------------------|
01349>  001:0222---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01350>      ADD HYD            02:SiteLag       41.20    4.834 No_date   10:35  172.18
```

```
                     +  03:Pre 2         14.85    1.661 No_date   10:47  175.37
      [DT= 1.00]  SUM=  04:S PL          56.05    6.484 No_date   10:37  173.37
#-----------------|-------------------------------------------------------------|
 001:0223---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 04:S PL          56.05    6.484 No_date   10:37  173.37
      [RDT= 1.00] out<- 05:DS Lag        56.05    6.478 No_date   10:40  173.37
      [L/S/n=  150./ .960/.035]
      {Vmax=  .790:Dmax=  .552}
 001:0224---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       06:Ext 3           1.55     .177 No_date   10:16  146.84
      [CN= 77.0: N= 3.00]
      [Tp=  .47:DT= 1.00]
#-----------------|-------------------------------------------------------------|
 001:0225---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            05:DS Lag        56.05    6.478 No_date   10:40  173.37
                     +  06:Ext 3           1.55     .177 No_date   10:16  146.84
      [DT= 1.00]  SUM=  07:Outlet        57.60    6.644 No_date   10:40  172.91
#-----------------|-------------------------------------------------------------|
#-----------------|-------------------------------------------------------------|
#-----------------|--------------- East Catchment Area ----------------------|
 001:0226---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       01:Ext 2        417.20   33.913 No_date   11:55  174.25
      [CN= 87.8: N= 3.00]
      [Tp= 1.87:DT= 1.00]
 001:0227---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:Ext 2        417.20   33.913 No_date   11:55  174.25
      [RDT= 1.00] out<- 02:SiteLag      417.20   33.847 No_date   12:01  174.25
      [L/S/n=  550./ .650/.035]
      {Vmax= 1.287:Dmax= 1.753}
 001:0228---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       03:Pre 3         29.18    3.424 No_date   10:32  178.02
      [CN= 89.1: N= 3.00]
      [Tp=  .64:DT= 1.00]
#-----------------|-------------------------------------------------------------|
 001:0229---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            02:SiteLag      417.20   33.847 No_date   12:01  174.25
                     +  03:Pre 3         29.18    3.424 No_date   10:32  178.02
      [DT= 1.00]  SUM=  04:S PL         446.38   35.795 No_date   11:51  174.51
#-----------------|-------------------------------------------------------------|
 001:0230---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 04:S PL         446.38   35.795 No_date   11:51  174.51
      [RDT= 1.00] out<- 05:DS Lag       446.38   35.736 No_date   11:57  174.51
      [L/S/n=  550./ .650/.035]
      {Vmax= 1.300:Dmax= 1.771}
 001:0231---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       06:Ext 4          6.30     .687 No_date   10:34  154.38
      [CN= 80.3: N= 3.00]
      [Tp=  .64:DT= 1.00]
#-----------------|-------------------------------------------------------------|
 001:0232---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            05:DS Lag       446.38   35.736 No_date   11:57  174.51
                     +  06:Ext 4          6.30     .687 No_date   10:34  154.38
      [DT= 1.00]  SUM=  08:Outlet       452.68   36.136 No_date   11:55  174.23
#-----------------|-------------------------------------------------------------|
 001:0233---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            07:Outlet        57.60    6.644 No_date   10:40  172.91
                     +  08:Outlet       452.68   36.136 No_date   11:55  174.23
      [DT= 1.00]  SUM=  09:Tot Area     510.28   40.936 No_date   11:36  174.08
#-----------------|-------------------------------------------------------------|
 001:0234-----------------------------------------------------------------------
      FINISH
-------------------------------------------------------------------------------
*******************************************************************************
     WARNINGS / ERRORS / NOTES
     -------------------------
   Simulation ended on 2018-09-04     at 08:35:38
===============================================================================
```

```
00001> 2     Metric units
00002> *********************************************************************
00003> *#  Project Name: [Dundalk Meadows Phase 7 & 8]      Project Number: [1060-5177]
00004> *#  Date        : 2020.01.13
00005> *#  Modeller    : [H.Birrell]
00006> *#  Company     : C.F. Crozier & Associates Inc.
00007> *#  License #   :  3737016
00008> *********************************************************************
00009> START               TZERO=[0.0],  METOUT=[2],  NSTORM=[0],  NRUN=[0]
00010> *%                   [  ] <--storm filename, one per line for NSTORM time
00011> *%-----------------|-------------------------------------------------------------|
00012> *#-----------------|------------ POST DEVELOPMENT MODEL-----------------------------|
00013> *%-----------------|------------------FULL BUILDOUT-------------------------------|
00014> *%-----------------|-------------------------------------------------------------|
00015> *#-----------------|-------------------------------------------------------------|
00016> *#                           2222    5555    M   M    M   M
00017> *#                              2    5       MM MM    MM MM
00018> *#                           2222    5555    M M M    M M M
00019> *#                           2          5    M   M    M   M
00020> *#                           2222    5555    M   M    M   M
00021> *#-----------------|-------------------------------------------------------------|
00022> *#-----------------|-------------------------------------------------------------|
00023> READ STORM          STORM_FILENAME=["25mm.stm"]
00024> *#-----------------|-------------------------------------------------------------|
00025> *#-----------------|-------------------------------------------------------------|
00026> *#                 |                                                             |
00027> *#                 |                      Controlled Runoff From ZONE 1          |
00028> *#                 |                                                             |
00029> *#-----------------|-------------------------------------------------------------|
00030> *#                 |                                                             |
00031> *%-----------------|-------------------------------------------------------------|
00032> *#-----------------|------------------- SWM Facility #1 Area ----------------------|
00033> *#-----------------|------------------- West Site Area ---------------------------|
00034> *#-----------------|-------------------------------------------------------------|
00035> CALIB NASHYD        ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
00036>                     DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
00037>                     N=[3], TP=[0.26]hrs,
00038>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00039> *#-----------------|-------------------------------------------------------------|
00040> CALIB STANDHYD      ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
00041>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
00042>                     SCS curve number CN=[74],
00043>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00044>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00045>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00046>                                          LGI=[287](m), MNI=[0.013], SCI=[0](min),
00047>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00048> *#-----------------|-------------------------------------------------------------|
00049> CALIB STANDHYD      ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
00050>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
00051>                     SCS curve number CN=[74],
00052>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00053>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00054>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00055>                                          LGI=[81](m), MNI=[0.013], SCI=[0](min),
00056>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00057> *#-----------------|-------------------------------------------------------------|
00058> CALIB STANDHYD      ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
00059>                     XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00060>                     SCS curve number CN=[74],
00061>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00062>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00063>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00064>                                          LGI=[113](m), MNI=[0.013], SCI=[0](min),
00065>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00066> *#-----------------|-------------------------------------------------------------|
00067> ADD HYD             IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
00068> *#-----------------|-------------------------------------------------------------|
00069> *#-----------------|---------------- SWM Facility #1 ----------------------------|
00070> *#-----------------|-------------------------------------------------------------|
00071> ROUTE RESERVOIR     IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
00072>                     RDT=[1](min),
00073>                           TABLE of ( OUTFLOW-STORAGE ) values
00074>                                          (cms)  -  (ha-m)
00075>                                     [   0.0 , 0.0   ]
00076>                                     [ 0.005 , 0.034 ]
00077>                                     [ 0.011 , 0.114 ]
00078>                                     [ 0.013 , 0.164 ]
00079>                                     [ 0.017 , 0.297 ]
00080>                                     [ 0.018 , 0.380 ]
00081>                                     [ 0.020 , 0.523 ]
00082>                                     [ 0.022 , 0.734 ]
00083>                                     [ 0.067 , 0.848 ]
00084>                                     [ 0.252 , 1.092 ]
00085>                                     [   -1  ,   -1  ]  (max twenty pts)
00086>                           IDovf=[2], NHYDovf=["P#1Over"]
00087> *#-----------------|-------------------------------------------------------------|
00088> *#-----------------|-------------------------------------------------------------|
00089> *#                 |                                                             |
00090> *#                 |                     Watercourse Flows- ZONE 1               |
00091> *#                 |                                                             |
00092> *#-----------------|-------------------------------------------------------------|
00093> *#-----------------|-------------------------------------------------------------|
00094> *#-----------------|-------------- West Watercourse Area ------------------------|
00095> *#-----------------|------------- Small Unnmaed Tributary -----------------------|
00096> *#-----------------|-------------------------------------------------------------|
00097> *%-----------------|-------------------------------------------------------------|
00098> CALIB NASHYD        ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
00099>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
00100>                     N=[3], TP=[0.57]hrs,
00101>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00102> *#-----------------|-------------------------------------------------------------|
00103> ROUTE CHANNEL       IDout=[4], NHYD=["SiteLag"], IDin=[3],
00104>                     RDT=[1](min),
00105>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
00106>                                       FPSLOPE=[0.96](%),
00107>                     SECNUM=[1],       NSEG=[3]
00108>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
00109>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00110>                                                    [ 48.0, 514.81]
00111>                                                    [ 60.0, 514.69]
00112>                                                    [ 68.5, 514.54]
00113>                                                    [ 75.5, 514.23]
00114>                                                    [ 76.0, 514.06]
00115>                                                    [ 77.5, 514.06]
00116>                                                    [ 78.5, 514.36]
00117>                                                    [ 79.5, 514.39]
00118>                                                    [ 92.5, 514.49]
00119>                                                    [103.5, 514.51]
00120>                                                    [118.5, 514.67]
00121>                                                    [130.5, 514.50]
00122>                                                    [151.0, 515.00]
00123> *%-----------------|-------------------------------------------------------------|
00124> CALIB NASHYD        ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
00125>                     DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
00126>                     N=[3], TP=[0.40]hrs,
00127>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00128> *#-----------------|-------------------------------------------------------------|
00129> *#-----------------|-------- Total Flow at South Property Line ------------------|
00130> *#-----------------|-------------------------------------------------------------|
00131> ADD HYD             IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
00132> *#-----------------|-------------------------------------------------------------|
00133> ROUTE CHANNEL       IDout=[1], NHYD=["DS Lag"], IDin=[3],
00134>                     RDT=[1](min),
00135>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
00136>                                       FPSLOPE=[0.96](%),
00137>                     SECNUM=[1],       NSEG=[3]
00138>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
00139>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00140>                                                    [ 48.0, 514.81]
00141>                                                    [ 60.0, 514.69]
00142>                                                    [ 68.5, 514.54]
00143>                                                    [ 75.5, 514.23]
00144>                                                    [ 76.0, 514.06]
00145>                                                    [ 77.5, 514.06]
00146>                                                    [ 78.5, 514.36]
00147>                                                    [ 79.5, 514.39]
00148>                                                    [ 92.5, 514.49]
00149>                                                    [103.5, 514.51]
00150>                                                    [118.5, 514.67]
00151>                                                    [130.5, 514.50]
00152>                                                    [151.0, 515.00]
00153> *#-----------------|-------------------------------------------------------------|
00154> CALIB NASHYD        ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
00155>                     DWF=[0](cms),  CN/C=[60], IA=[10](mm),
00156>                     N=[3], TP=[0.47]hrs,
00157>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00158> *#-----------------|-------------------------------------------------------------|
00159>                     |                                                             |
00160>                     |                                                             |
00161>                     |                                                             |
00162> *#-----------------|-------------------------------------------------------------|
00163> *#                 |                                                             |
00164> *#                 |                      Controlled Runoff From ZONE 2          |
00165> *#                 |                                                             |
00166> *#-----------------|-------------------------------------------------------------|
00167>                     |                                                             |
00168> *#-----------------|-------------------------------------------------------------|
00169> CALIB STANDHYD      ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
00170>                     XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
00171>                     SCS curve number CN=[74],
00172>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00173>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00174>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00175>                                          LGI=[313](m), MNI=[0.013], SCI=[0](min),
00176>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00177> *#-----------------|-------------------------------------------------------------|
00178> CALIB STANDHYD      ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
00179>                     XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
00180>                     SCS curve number CN=[74],
00181>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00182>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00183>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00184>                                          LGI=[37](m), MNI=[0.013], SCI=[0](min),
00185>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00186> *#-----------------|-------------------------------------------------------------|
00187> DIVERT HYD          IDin=[4], NIDout=[2]max five,
00188>                     outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
00189>                     flow distribution table: (modify as necessary)
00190>                     Note: all flows are in (cms)
00191>                        QIDi +  QIDii   =  QTOTAL
00192>                      [ 0.000 +  0.000   =  0.000]
00193>                      [ 0.035 +  0.000   =  0.035]
00194>                      [ 0.035 +  10.000  =  10.035]end
00195> *#-----------------|-------------------------------------------------------------|
00196> CALIB STANDHYD      ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
00197>                     XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
00198>                     SCS curve number CN=[74],
00199>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00200>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00201>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00202>                                          LGI=[47](m), MNI=[0.013], SCI=[0](min),
00203>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00204> *#-----------------|-------------------------------------------------------------|
00205> CALIB STANDHYD      ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
00206>                     XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
00207>                     SCS curve number CN=[74],
00208>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00209>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00210>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00211>                                          LGI=[86](m), MNI=[0.013], SCI=[0](min),
00212>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00213> *#-----------------|-------------------------------------------------------------|
00214> *#-----------------|-------------------------------------------------------------|
00215> ADD HYD             IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
00216> *#-----------------|-------------------------------------------------------------|
00217> *#-----------------|---------------- SWM Facility #2 ----------------------------|
00218> *#-----------------|-------------------------------------------------------------|
00219> ROUTE RESERVOIR     IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
00220>                     RDT=[1](min),
00221>                           TABLE of ( OUTFLOW-STORAGE ) values
00222>                                          (cms)  -  (ha-m)
00223>                                     [   0.0 , 0.0   ]
00224>                                     [ 0.008 , 0.048]
00225>                                     [ 0.026 , 0.123]
00226>                                     [ 0.036 ,  0.204]
00227>                                     [ 0.044 ,  0.261]
00228>                                     [ 0.080 ,  0.320]
00229>                                     [ 0.110 ,  0.350]
00230>                                     [ 0.146 ,  0.380]
00231>                                     [ 0.239 ,  0.443]
00232>                                     [ 0.560 ,  0.574]
00233>                                     [ 0.828 ,  0.642]
00234>                                     [ 1.154 ,  0.711]
00235>                                     [ 1.535 ,  0.782]
00236>                                     [ 1.746 ,  0.818]
00237>                                     [ 1.924 ,  0.847]
00238>                                     [ 1.984 ,  0.855]
00239>                                     [ 3.005 ,  0.940]
00240>                                     [ 4.549 ,  1.032]
00241>                                     [ 12.016, 1.330]
00242>                                     [   -1  ,  -1  ]  (max twenty pts)
00243>                           IDovf=[4], NHYDovf=["P#2Over"]
00244> *#-----------------|-------------------------------------------------------------|
00245> ADD HYD             IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
00246> *#-----------------|-------------------------------------------------------------|
00247> DIVERT HYD          IDin=[5], NIDout=[2]max five,
00248>                     outflow hydrographs (ID, NHYD)=[3,"PTwoW" / 4,"PTwoE"]
00249>                     flow distribution table: (modify as necessary)
00250>                     Note: all flows are in (cms)
00251>                        QIDi +  QIDii   =  QTOTAL
00252>                      [   0  +   0     =   0   ]
00253>                      [ 0.000 +  0.008  =  0.008 ]
00254>                      [ 0.000 +  0.022  =  0.026 ]
00255>                      [ 0.000 +  0.033  =  0.033 ]
00256>                      [ 0.000 +  0.044  =  0.044 ]
00257>                      [ 0.019 +  0.062  =  0.080 ]
00258>                      [ 0.053 +  0.093  =  0.146 ]
00259>                      [ 0.097 +  0.143  =  0.239 ]
00260>                      [ 0.208 +  0.352  =  0.560 ]
00261>                      [ 0.345 +  0.809  =  1.1554 ]
00262>                      [ 0.461 +  1.285  = 1.746 ]
00263>                      [ 0.503 +  1.486  = 1.988 ]
00264>                      [ 0.589 +  2.584  = 3.173 ]
00265>                      [ 0.679 +  4.312  =  4.991 ]
00266>                      [ 0.975 +  12.716 = 13.692] end
00267> *#-----------------|-------------------------------------------------------------|
00268> *#                 |                                                             |
00269> *#                 |                     Watercourse Flows- ZONE 2               |
00270> *#                 |                                                             |
00271> *#-----------------|-------------------------------------------------------------|
00272> *#-----------------|-------------------------------------------------------------|
00273> *#-----------------|-------------- East Watercourse Area ----------------------|
00274> *#-----------------|------------------ Foley Drain ------------------------------|
00275> *#-----------------|-------------------------------------------------------------|
00276> *%-----------------|-------------------------------------------------------------|
00277> *%-----------------|-------------------------------------------------------------|
00278> CALIB NASHYD        ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
00279>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
00280>                     N=[3], TP=[1.87]hrs,
00281>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00282> *#-----------------|-------------------------------------------------------------|
00283> CALIB NASHYD        ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
00284>                     DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
00285>                     N=[3], TP=[0.36]hrs,
00286>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00287> *#-----------------|-------------------------------------------------------------|
00288> ADD HYD             IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
00289> *#-----------------|-------------------------------------------------------------|
00290> ROUTE CHANNEL       IDout=[5], NHYD=["SiteLag"], IDin=[8],
00291>                     RDT=[1](min),
00292>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
00293>                                       FPSLOPE=[0.65](%),
00294>                     SECNUM=[1],       NSEG=[3]
00295>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
00296>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
00297>                                                    [196.60, 514.00]
00298>                                                    [215.60, 513.59]
00299>                                                    [216.55, 513.00]
00300>                                                    [217.20, 512.50]
00301>                                                    [217.45, 512.46]
00302>                                                    [217.80, 512.50]
00303>                                                    [218.95, 513.00]
00304>                                                    [221.30, 513.50]
00305>                                                    [221.70, 513.71]
00306>                                                    [230.40, 513.71]
00307>                                                    [243.80, 514.00]
00308>                                                    [249.40, 514.12]
00309>                                                    [259.50, 514.28]
00310>                                                    [266.50, 514.50]
00311> *#-----------------|-------------------------------------------------------------|
00312>                     |                                                             |
00313> *#-----------------|-------------------------------------------------------------|
00314> *#                 |                                                             |
00315> *#                 |                      Controlled Runoff From ZONE 3          |
00316> *#                 |                                                             |
00317> *#-----------------|-------------------------------------------------------------|
00318> *#-----------------|-------------------------------------------------------------|
00319> CALIB STANDHYD      ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
00320>                     XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
00321>                     SCS curve number CN=[74],
00322>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00323>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00324>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00325>                                          LGI=[259](m), MNI=[0.013], SCI=[0](min),
00326>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00327> *#-----------------|-------------------------------------------------------------|
00328> CALIB STANDHYD      ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
00329>                     XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
00330>                     SCS curve number CN=[74],
00331>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00332>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00333>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00334>                                          LGI=[90](m), MNI=[0.013], SCI=[0](min),
00335>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00336> *#-----------------|-------------------------------------------------------------|
00337> ADD HYD             IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
00338> *#-----------------|-------------------------------------------------------------|
00339> *#-----------------|-------------------------------------------------------------|
00340> *#-----------------|---------------- SWM Facility #3 ----------------------------|
00341> *#-----------------|-------------------------------------------------------------|
00342> ROUTE RESERVOIR     IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
00343>                     RDT=[1](min),
00344>                           TABLE of ( OUTFLOW-STORAGE ) values
00345>                                          (cms)  -  (ha-m)
00346>                                     [   0.0 , 0.0   ]
00347>                                     [ 0.007 , 0.036]
00348>                                     [ 0.013 , 0.075]
00349>                                     [ 0.016 , 0.107]
00350>                                     [ 0.017 , 0.115]
00351>                                     [ 0.023 , 0.202]
00352>                                     [ 0.027 , 0.272]
00353>                                     [ 0.033 , 0.348]
00354>                                     [ 0.035 , 0.517]
00355>                                     [ 0.040 , 0.709]
00356>                                     [ 0.045 , 0.922]
```

```
                                    [ 1.247 , 1.155]
                                    [   -1  ,  -1  ]  (max twenty pts)
                         IDovf=[8], NHYDovf=["P#2Over"]
*-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
*-----------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                   DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
                   N=[3], TP=[0.64]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
*-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
*-----------------|-------------------------------------------------------------|
*
*
*-----------------------------------------------------------------------------|
*                    2222   Y   Y  RRRR       CCCC  H   H  IIIII                |
*                       2    Y Y   R   R     C      H   H    I                  |
*                    2222     Y    RRRR      C      HHHHH    I                  |
*                    2        Y    R  R      C      H   H    I                  |
*                    2222     Y    R   R      CCCC  H   H  IIIII                |
*-----------------------------------------------------------------------------|
*******************************************************************************
*                              2-YEAR, 3 HOUR CHICAGO STORM
*******************************************************************************
*-----------------|-------------------------------------------------------------|
CHICAGO STORM      IUNITS=[2],   TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
                   ICASEcs=[2],
                   Enter ordinates of IDF curve below, at least seven points
                       TIME (min)    Intensity(mm/hr)
                          [5]         [117.8]
                          [10]        [72.8]
                          [15]        [55.0]
                          [30]        [34.0]
                          [60]        [21.0]
                          [120]       [13.0]
                          [360]       [6.1]
                          [720]       [3.7]
                          [1440]      [2.3]
                            -1           -1
*-----------------|-------------------------------------------------------------|
*-----------------|-------------------------------------------------------------|
*                  |
*                  |                  Controlled Runoff From ZONE 1
*                  |
*-----------------|-------------------------------------------------------------|
*
*-----------------|---------------- SWM Facility #1 Area ----------------------|
*-----------------|------------------ West Site Area -------------------------|
CALIB NASHYD       ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
                   DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
                   N=[3], TP=[0.26]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
                   XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[287](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
                   XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[81](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
                   XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[113](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
*-----------------|-------------------------------------------------------------|
*-----------------|---------------- SWM Facility #1 ----------------------------|
ROUTE RESERVOIR    IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
                   RDT=[1](min),
                         TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                   [   0.0 , 0.0   ]
                                   [ 0.005 , 0.034 ]
                                   [ 0.011 , 0.114 ]
                                   [ 0.013 , 0.164 ]
                                   [ 0.017 , 0.297 ]
                                   [ 0.018 , 0.380 ]
                                   [ 0.020 , 0.523 ]
                                   [ 0.022 , 0.734 ]
                                   [ 0.067 , 0.848 ]
                                   [ 0.252 , 1.092 ]
                                   [   -1  ,  -1   ]  (max twenty pts)
                         IDovf=[2], NHYDovf=["P#1Over"]
*-----------------|-------------------------------------------------------------|
*-----------------|-------------------------------------------------------------|
*                  |
*                  |                   Watercourse Flows- ZONE 1
*                  |
*-----------------|-------------------------------------------------------------|
*-----------------|------------------------------------------------------------|
*-----------------|------------- West Watercourse Area -----------------------|
*-----------------|------------ Small Unnmaed Tributary ----------------------|
*-----------------|-------------------------------------------------------------|
*-----------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
                   DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
                   N=[3], TP=[0.57]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*-----------------|-------------------------------------------------------------|
ROUTE CHANNEL      IDout=[4], NHYD=["SiteLag"], IDin=[3],
                   RDT=[1](min),
                   CHLGTH=[425](m),  CHSLOPE=[0.96](%),
                                     FPSLOPE=[0.96](%),
                   SECNUM=[1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                  [ 48.0, 514.81]
                                                  [ 60.0, 514.69]
                                                  [ 68.5, 514.54]
                                                  [ 75.5, 514.23]
                                                  [ 76.0, 514.06]
                                                  [ 77.5, 514.06]
                                                  [ 78.5, 514.36]
                                                  [ 79.5, 514.39]
                                                  [ 92.5, 514.49]
                                                  [103.5, 514.51]
                                                  [118.5, 514.67]
                                                  [130.5, 514.50]
                                                  [151.0, 515.00]
*-----------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
                   DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
                   N=[3], TP=[0.40]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*-----------------|-------- Total Flow at South Property Line ----------------|
*-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[3], NHYD=["Unc PL"], IDs to add=[1+2+4+5]
*-----------------|-------------------------------------------------------------|
ROUTE CHANNEL      IDout=[1], NHYD=["DS Lag"], IDin=[3],
                   RDT=[1](min),
                   CHLGTH=[150](m),  CHSLOPE=[0.96](%),
                                     FPSLOPE=[0.96](%),
                   SECNUM=[1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                  [ 48.0, 514.81]
                                                  [ 60.0, 514.69]
                                                  [ 68.5, 514.54]
                                                  [ 75.5, 514.23]
                                                  [ 76.0, 514.06]
                                                  [ 77.5, 514.06]
                                                  [ 78.5, 514.36]
                                                  [ 79.5, 514.39]
                                                  [ 92.5, 514.49]
                                                  [103.5, 514.51]
                                                  [118.5, 514.67]
                                                  [130.5, 514.50]
                                                  [151.0, 515.00]
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
                   DWF=[0](cms),  CN/C=[60], IA=[10](mm),
                   N=[3], TP=[0.47]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*-----------------|-------------------------------------------------------------|
*
*
*-----------------|-------------------------------------------------------------|
*                  |
*                  |                  Controlled Runoff From ZONE 2
*                  |
*-----------------|-------------------------------------------------------------|
*
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
                   XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[313](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
                   XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[37](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*-----------------|-------------------------------------------------------------|
DIVERT HYD         IDin=[4], NIDout=[2]max five,
                   outflow hydrographs (ID, NHYD)=[5,"MINOR" / 6,"MAJOR"]
                   flow distribution table: (modify as necessary)
                   Note: all flows are in (cms)
                      QIDi +  QIDii    =  QTOTAL
                      [ 0.000  +  0.000   =  0.000]
                      [ 0.035 +   0.000   =  0.035]
                      [ 0.035 +   10.000  =  10.035]end
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
                   XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[47](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
                   XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[86](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*-----------------|-------------------------------------------------------------|
*-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
*-----------------|-------------------------------------------------------------|
*-----------------|---------------- SWM Facility #2 ----------------------------|
*-----------------|-------------------------------------------------------------|
ROUTE RESERVOIR    IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
                   RDT=[1](min),
                         TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                   [   0.0 , 0.0   ]
                                   [ 0.008 , 0.048]
                                   [ 0.026 , 0.123]
                                   [ 0.036 ,  0.204]
                                   [ 0.044 ,  0.261]
                                   [ 0.080 ,  0.320]
                                   [ 0.110 ,  0.350]
                                   [ 0.146 ,  0.380]
                                   [ 0.239 ,  0.443]
                                   [ 0.560 ,  0.574]
                                   [ 0.828 ,  0.642]
                                   [ 1.154 ,  0.711]
                                   [ 1.535 ,  0.782]
                                   [ 1.746 ,  0.818]
                                   [ 1.924 ,  0.847]
                                   [ 1.984 ,  0.855]
                                   [ 3.005 ,  0.940]
                                   [ 4.549 ,  1.032]
                                   [ 12.016, 1.330]
                                   [   -1  ,  -1   ]  (max twenty pts)
                         IDovf=[4], NHYDovf=["P#2Over"]
*-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
*-----------------|-------------------------------------------------------------|
DIVERT HYD         IDin=[5], NIDout=[2]max five,
                   outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
                   flow distribution table: (modify as necessary)
                   Note: all flows are in (cms)
                      QIDi +  QIDii    =  QTOTAL
                      [   0  +   0     =    0   ]
                      [ 0.000 +   0.008  =  0.008 ]
                      [ 0.000 +   0.022  =  0.026 ]
                      [ 0.000 +   0.033  =  0.033 ]
                      [ 0.000 +   0.044  =  0.044 ]
                      [ 0.019 +   0.062  =  0.080 ]
                      [ 0.053 +   0.093  =  0.146 ]
                      [ 0.097 +   0.143  =  0.239 ]
                      [ 0.208 +   0.352  =  0.560 ]
                      [ 0.345 +   0.809  =  1.1554 ]
                      [ 0.461 +   1.285  = 1.746 ]
                      [ 0.503 +   1.486  = 1.988 ]
                      [ 0.589 +   2.584  = 3.173 ]
                      [ 0.679 +   4.312  =  4.991 ]
                      [ 0.975 +   12.716 = 13.692] end
*-----------------|-------------------------------------------------------------|
*-----------------|-------------------------------------------------------------|
*                  |
*                  |                   Watercourse Flows- ZONE 2
*                  |
*-----------------|-------------------------------------------------------------|
*-----------------|-------------------------------------------------------------|
*-----------------|------------- East Watercourse Area -----------------------|
*-----------------|--------------------- Foley Drain ------------------------|
*-----------------|-------------------------------------------------------------|
*-----------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
                   DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
                   N=[3], TP=[1.87]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*-----------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
                   DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
                   N=[3], TP=[0.36]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
*-----------------|-------------------------------------------------------------|
ROUTE CHANNEL      IDout=[5], NHYD=["SiteLag"], IDin=[8],
                   RDT=[1](min),
                   CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                     FPSLOPE=[0.65](%),
                   SECNUM=[1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                  [196.60, 514.00]
                                                  [215.60, 513.59]
                                                  [216.55, 513.00]
                                                  [217.20, 512.50]
                                                  [217.45, 512.46]
                                                  [217.80, 512.50]
                                                  [218.95, 513.00]
                                                  [221.30, 513.50]
                                                  [221.70, 513.71]
                                                  [230.40, 513.71]
                                                  [243.80, 514.00]
                                                  [249.40, 514.12]
                                                  [259.50, 514.28]
                                                  [266.50, 514.50]
*-----------------|-------------------------------------------------------------|
*
*-----------------|-------------------------------------------------------------|
*                  |
*                  |                  Controlled Runoff From ZONE 3
*                  |
*-----------------|-------------------------------------------------------------|
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
                   XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[259](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*-----------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
                   XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[90](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*-----------------|-------------------------------------------------------------|
ADD HYD            IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
```

```
00713> *#-----------------|-------------------------------------------------------------|
00714> *#-----------------|-------------------------------------------------------------|
00715> *#-----------------|------------------------- SWM Facility #3 ---------------------|
00716> *#-----------------|-------------------------------------------------------------|
00717> ROUTE RESERVOIR     IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
00718>                     RDT=[1](min),
00719>                           TABLE of ( OUTFLOW-STORAGE ) values
00720>                                        (cms) - (ha-m)
00721>                                     [   0.0 , 0.0   ]
00722>                                     [ 0.007 , 0.036]
00723>                                     [ 0.013 , 0.075]
00724>                                     [ 0.016 , 0.107]
00725>                                     [ 0.017 , 0.115]
00726>                                     [ 0.023 , 0.202]
00727>                                     [ 0.027 , 0.272]
00728>                                     [ 0.030 , 0.348]
00729>                                     [ 0.035 , 0.517]
00730>                                     [ 0.040 , 0.709]
00731>                                     [ 0.045 , 0.922]
00732>                                     [ 1.247 , 1.155]
00733>                                     [   -1  ,   -1  ]  (max twenty pts)
00734>                           IDovf=[8], NHYDovf=["P#2Over"]
00735> *#-----------------|-------------------------------------------------------------|
00736> ADD HYD             IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
00737> *#-----------------|-------------------------------------------------------------|
00738> CALIB NASHYD        ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
00739>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
00740>                     N=[3], TP=[0.64]hrs,
00741>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00742> *#-----------------|-------------------------------------------------------------|
00743> ADD HYD             IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
00744> *#-----------------|-------------------------------------------------------------|
00745> ADD HYD             IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
00746> *#-----------------|-------------------------------------------------------------|
00747>
00748>
00749> *#*****************************************************************************
00750> *#                    5555   Y   Y  RRRR       CCCC  H   H  IIIII
00751> *#                    5       Y Y   R   R     C      H   H    I
00752> *#                    5555     Y    RRRR      C      HHHHH    I
00753> *#                       5     Y    R  R      C      H   H    I
00754> *#                    5555     Y    R   R      CCCC  H   H  IIIII
00755> *#*****************************************************************************
00756> *#*****************************************************************************
00757> *#                              5-YEAR, 3 HOUR CHICAGO STORM
00758> *#*****************************************************************************
00759> *#-----------------|-------------------------------------------------------------|
00760> CHICAGO STORM      IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
00761>                     ICASEcs=[2],
00762>                     Enter ordinates of IDF curve below, at least seven points
00763>                        TIME (min)    Intensity(mm/hr)
00764>                          [5]         [158.4]
00765>                          [10]        [98.0]
00766>                          [15]        [74.0]
00767>                          [30]        [45.8]
00768>                          [60]        [28.3]
00769>                          [120]       [17.5]
00770>                          [360]       [8.2]
00771>                          [720]       [5.1]
00772>                          [1440]      [3.1]
00773>                             -1           -1
00774> *#-----------------|-------------------------------------------------------------|
00775> *#-----------------|-------------------------------------------------------------|
00776> *#                 |
00777> *#                 |                 Controlled Runoff From ZONE 1
00778> *#                 |
00779> *#-----------------|-------------------------------------------------------------|
00780> *#
00781> *%-----------------|-------------------------------------------------------------|
00782> *#-----------------|------------------------- SWM Facility #1 Area ----------------|
00783> *#-----------------|------------------- West Site Area ------------------------|
00784> *#-----------------|-------------------------------------------------------------|
00785> CALIB NASHYD        ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
00786>                     DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
00787>                     N=[3], TP=[0.26]hrs,
00788>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00789> *#-----------------|-------------------------------------------------------------|
00790> CALIB STANDHYD      ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
00791>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
00792>                     SCS curve number CN=[74],
00793>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00794>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00795>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00796>                                          LGI=[287](m), MNI=[0.013], SCI=[0](min),
00797>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00798> *#-----------------|-------------------------------------------------------------|
00799> CALIB STANDHYD      ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
00800>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
00801>                     SCS curve number CN=[74],
00802>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00803>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00804>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00805>                                          LGI=[81](m), MNI=[0.013], SCI=[0](min),
00806>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00807> *#-----------------|-------------------------------------------------------------|
00808> CALIB STANDHYD      ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
00809>                     XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00810>                     SCS curve number CN=[74],
00811>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00812>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00813>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00814>                                          LGI=[113](m), MNI=[0.013], SCI=[0](min),
00815>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00816> *#-----------------|-------------------------------------------------------------|
00817> ADD HYD             IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
00818> *#-----------------|-------------------------------------------------------------|
00819> *#-----------------|------------------------- SWM Facility #1 ---------------------|
00820> *#-----------------|-------------------------------------------------------------|
00821> ROUTE RESERVOIR     IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
00822>                     RDT=[1](min),
00823>                           TABLE of ( OUTFLOW-STORAGE ) values
00824>                                        (cms) - (ha-m)
00825>                                     [   0.0 , 0.0   ]
00826>                                     [ 0.005 , 0.034 ]
00827>                                     [ 0.011 , 0.114 ]
00828>                                     [ 0.013 , 0.164 ]
00829>                                     [ 0.017 , 0.297 ]
00830>                                     [ 0.018 , 0.380 ]
00831>                                     [ 0.020 , 0.523 ]
00832>                                     [ 0.022 , 0.734 ]
00833>                                     [ 0.067 , 0.848 ]
00834>                                     [ 0.252 , 1.092 ]
00835>                                     [   -1  ,   -1  ]  (max twenty pts)
00836>                           IDovf=[2], NHYDovf=["P#1Over"]
00837> *#-----------------|-------------------------------------------------------------|
00838> *#-----------------|-------------------------------------------------------------|
00839> *#                 |
00840> *#                 |                      Watercourse Flows- ZONE 1
00841> *#                 |
00842> *#-----------------|-------------------------------------------------------------|
00843> *#-----------------|-------------------------------------------------------------|
00844> *#-----------------|------------------- West Watercourse Area ------------------|
00845> *#-----------------|------------------- Small Unnmaed Tributary ------------------|
00846> *#-----------------|-------------------------------------------------------------|
00847> *%-----------------|-------------------------------------------------------------|
00848> CALIB NASHYD        ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
00849>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
00850>                     N=[3], TP=[0.57]hrs,
00851>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00852> *#-----------------|-------------------------------------------------------------|
00853> ROUTE CHANNEL       IDout=[4], NHYD=["SiteLag"], IDin=[3],
00854>                     RDT=[1](min),
00855>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
00856>                                       FPSLOPE=[0.96](%),
00857>                     SECNUM=[1],       NSEG=[3]
00858>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
00859>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00860>                                                    [ 48.0, 514.81]
00861>                                                    [ 60.0, 514.69]
00862>                                                    [ 68.5, 514.54]
00863>                                                    [ 75.5, 514.23]
00864>                                                    [ 76.0, 514.06]
00865>                                                    [ 77.5, 514.06]
00866>                                                    [ 78.5, 514.36]
00867>                                                    [ 79.5, 514.39]
00868>                                                    [ 92.5, 514.49]
00869>                                                    [103.5, 514.51]
00870>                                                    [118.5, 514.67]
00871>                                                    [130.5, 514.50]
00872>                                                    [151.0, 515.00]
00873> *%-----------------|-------------------------------------------------------------|
00874> CALIB NASHYD        ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
00875>                     DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
00876>                     N=[3], TP=[0.40]hrs,
00877>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00878> *#-----------------|-------------------------------------------------------------|
00879> *#-----------------|------------------- Total Flow at South Property Line ----------|
00880> *#-----------------|-------------------------------------------------------------|
00881> ADD HYD             IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
00882> *#-----------------|-------------------------------------------------------------|
00883> ROUTE CHANNEL       IDout=[1], NHYD=["DS Lag"], IDin=[3],
00884>                     RDT=[1](min),
00885>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
00886>                                       FPSLOPE=[0.96](%),
00887>                     SECNUM=[1],       NSEG=[3]
00888>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
00889>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
00890>                                                    [ 48.0, 514.81]
00891>                                                    [ 60.0, 514.69]
00892>                                                    [ 68.5, 514.54]
00893>                                                    [ 75.5, 514.23]
00894>                                                    [ 76.0, 514.06]
00895>                                                    [ 77.5, 514.06]
00896>                                                    [ 78.5, 514.36]
00897>                                                    [ 79.5, 514.39]
00898>                                                    [ 92.5, 514.49]
00899>                                                    [103.5, 514.51]
00900>                                                    [118.5, 514.67]
00901>                                                    [130.5, 514.50]
00902>                                                    [151.0, 515.00]
00903> *#-----------------|-------------------------------------------------------------|
00904> CALIB NASHYD        ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
00905>                     DWF=[0](cms),  CN/C=[60], IA=[10](mm),
00906>                     N=[3], TP=[0.47]hrs,
00907>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00908> *#-----------------|-------------------------------------------------------------|
00909>
00910>
00911>
00912> *#-----------------|-------------------------------------------------------------|
00913> *#                 |
00914> *#                 |                 Controlled Runoff From ZONE 2
00915> *#                 |
00916> *#-----------------|-------------------------------------------------------------|
00917>
00918> *#-----------------|-------------------------------------------------------------|
00919> CALIB STANDHYD      ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
00920>                     XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
00921>                     SCS curve number CN=[74],
00922>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00923>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00924>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00925>                                          LGI=[313](m), MNI=[0.013], SCI=[0](min),
00926>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00927> *#-----------------|-------------------------------------------------------------|
00928> CALIB STANDHYD      ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
00929>                     XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
00930>                     SCS curve number CN=[74],
00931>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00932>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00933>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00934>                                          LGI=[37](m), MNI=[0.013], SCI=[0](min),
00935>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00936> *#-----------------|-------------------------------------------------------------|
00937> DIVERT HYD          IDin=[4], NIDout=[2]max five,
00938>                     outflow hydrographs (ID, NHYD)=[5,"MINOR" 6,"MAJOR"]
00939>                     flow distribution table: (modify as necessary)
00940>                     Note: all flows are in (cms)
00941>                        QIDi +  QIDii   =  QTOTAL
00942>                        [ 0.000  +  0.000   =  0.000]
00943>                        [ 0.035 +   0.000   =  0.035]
00944>                        [ 0.035 +   10.000  =  10.035]end
00945> *#-----------------|-------------------------------------------------------------|
00946> CALIB STANDHYD      ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
00947>                     XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
00948>                     SCS curve number CN=[74],
00949>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00950>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00951>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00952>                                          LGI=[47](m), MNI=[0.013], SCI=[0](min),
00953>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00954> *#-----------------|-------------------------------------------------------------|
00955> CALIB STANDHYD      ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
00956>                     XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
00957>                     SCS curve number CN=[74],
00958>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
00959>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
00960>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00961>                                          LGI=[86](m), MNI=[0.013], SCI=[0](min),
00962>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00963> *#-----------------|-------------------------------------------------------------|
00964> *#-----------------|-------------------------------------------------------------|
00965> ADD HYD             IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
00966> *#-----------------|-------------------------------------------------------------|
00967> *#-----------------|------------------------- SWM Facility #2 ---------------------|
00968> *#-----------------|-------------------------------------------------------------|
00969> ROUTE RESERVOIR     IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
00970>                     RDT=[1](min),
00971>                           TABLE of ( OUTFLOW-STORAGE ) values
00972>                                        (cms) - (ha-m)
00973>                                     [   0.0 , 0.0   ]
00974>                                     [0.008 , 0.048]
00975>                                     [0.026 , 0.123]
00976>                                     [0.036 ,  0.204]
00977>                                     [0.044 ,  0.261]
00978>                                     [0.080 ,  0.320]
00979>                                     [0.110 ,  0.350]
00980>                                     [0.146 ,  0.380]
00981>                                     [0.239 ,  0.443]
00982>                                     [0.560 ,  0.574]
00983>                                     [0.828 ,  0.642]
00984>                                     [1.154 ,  0.711]
00985>                                     [1.535 ,  0.782]
00986>                                     [1.746 ,  0.818]
00987>                                     [1.924 ,  0.847]
00988>                                     [1.984 ,  0.855]
00989>                                     [3.005 ,  0.940]
00990>                                     [4.549 ,  1.032]
00991>                                     [12.016, 1.330]
00992>                                     [   -1  ,   -1  ]  (max twenty pts)
00993>                           IDovf=[4], NHYDovf=["P#2Over"]
00994> *#-----------------|-------------------------------------------------------------|
00995> ADD HYD             IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
00996> *#-----------------|-------------------------------------------------------------|
00997> DIVERT HYD          IDin=[5], NIDout=[2]max five,
00998>                     outflow hydrographs (ID, NHYD)=[3,"PTwoW" 4,"PTwoE"]
00999>                     flow distribution table: (modify as necessary)
01000>                     Note: all flows are in (cms)
01001>                        QIDi +  QIDii   =  QTOTAL
01002>                        [   0  +   0    =    0   ]
01003>                        [ 0.000 +   0.008  =  0.008 ]
01004>                        [ 0.000 +   0.022  =  0.026 ]
01005>                        [ 0.000 +   0.033  =  0.033 ]
01006>                        [ 0.000 +   0.044  =  0.044 ]
01007>                        [ 0.019 +   0.062  =  0.080 ]
01008>                        [ 0.053 +   0.093  =  0.146 ]
01009>                        [ 0.097 +   0.143  =  0.239 ]
01010>                        [ 0.208 +   0.352  =  0.560 ]
01011>                        [ 0.345 +   0.809  =  1.1554 ]
01012>                        [ 0.461 +   1.285  =  1.746 ]
01013>                        [ 0.503 +   1.486  =  1.988 ]
01014>                        [ 0.589 +   2.584  =  3.173 ]
01015>                        [ 0.679 +   4.312  =  4.991 ]
01016>                        [ 0.975 +   12.716 = 13.692] end
01017> *#-----------------|-------------------------------------------------------------|
01018> *#                 |
01019> *#                 |                      Watercourse Flows- ZONE 2
01020> *#                 |
01021> *#-----------------|-------------------------------------------------------------|
01022> *#-----------------|-------------------------------------------------------------|
01023> *#-----------------|------------------- East Watercourse Area ------------------|
01024> *#-----------------|-------------------     Foley Drain     -------------------|
01025> *#-----------------|-------------------------------------------------------------|
01026> *%-----------------|-------------------------------------------------------------|
01027> *%-----------------|-------------------------------------------------------------|
01028> CALIB NASHYD        ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
01029>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
01030>                     N=[3], TP=[1.87]hrs,
01031>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01032> *#-----------------|-------------------------------------------------------------|
01033> CALIB NASHYD        ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
01034>                     DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
01035>                     N=[3], TP=[0.36]hrs,
01036>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01037> *#-----------------|-------------------------------------------------------------|
01038> ADD HYD             IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
01039> *#-----------------|-------------------------------------------------------------|
01040> ROUTE CHANNEL       IDout=[5], NHYD=["SiteLag"], IDin=[8],
01041>                     RDT=[1](min),
01042>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
01043>                                       FPSLOPE=[0.65](%),
01044>                     SECNUM=[1],       NSEG=[3]
01045>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
01046>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
01047>                                                    [196.60, 514.00]
01048>                                                    [215.60, 513.59]
01049>                                                    [216.55, 513.00]
01050>                                                    [217.20, 512.50]
01051>                                                    [217.45, 512.46]
01052>                                                    [217.80, 512.50]
01053>                                                    [218.95, 513.00]
01054>                                                    [221.30, 513.50]
01055>                                                    [221.70, 513.71]
01056>                                                    [230.40, 513.71]
01057>                                                    [243.80, 514.00]
01058>                                                    [249.40, 514.12]
01059>                                                    [259.50, 514.28]
01060>                                                    [266.50, 514.50]
01061> *#-----------------|-------------------------------------------------------------|
01062>
01063> *#-----------------|-------------------------------------------------------------|
01064> *#                 |
01065> *#                 |                 Controlled Runoff From ZONE 3
01066> *#                 |
01067> *#-----------------|-------------------------------------------------------------|
01068> *#-----------------|-------------------------------------------------------------|
```

```
01069> CALIB STANDHYD      ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
01070>                     XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
01071>                     SCS curve number CN=[74],
01072>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01073>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
01074>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01075>                                           LGI=[259](m), MNI=[0.013], SCI=[0](min),
01076>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01077> *------------------|-------------------------------------------------------------|
01078> CALIB STANDHYD      ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
01079>                     XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
01080>                     SCS curve number CN=[74],
01081>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01082>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
01083>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01084>                                           LGI=[90](m), MNI=[0.013], SCI=[0](min),
01085>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01086> *------------------|-------------------------------------------------------------|
01087> ADD HYD             IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
01088> *------------------|-------------------------------------------------------------|
01089> *------------------|-------------------------------------------------------------|
01090> *------------------|---------------- SWM Facility #3 ----------------------------|
01091> *------------------|-------------------------------------------------------------|
01092> ROUTE RESERVOIR     IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
01093>                     RDT=[1](min),
01094>                          TABLE of ( OUTFLOW-STORAGE ) values
01095>                                     (cms) - (ha-m)
01096>                                   [   0.0 , 0.0   ]
01097>                                   [ 0.007 , 0.036]
01098>                                   [ 0.013 , 0.075]
01099>                                   [ 0.016 , 0.107]
01100>                                   [ 0.017 , 0.115]
01101>                                   [ 0.023 , 0.202]
01102>                                   [ 0.027 , 0.272]
01103>                                   [ 0.030 , 0.348]
01104>                                   [ 0.035 , 0.517]
01105>                                   [ 0.040 , 0.709]
01106>                                   [ 0.045 , 0.922]
01107>                                   [ 1.247 , 1.155]
01108>                                   [   -1  ,  -1   ]  (max twenty pts)
01109>                          IDovf=[8], NHYDovf=["P#2Over"]
01110> *------------------|-------------------------------------------------------------|
01111> ADD HYD             IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
01112> *------------------|-------------------------------------------------------------|
01113> CALIB NASHYD        ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
01114>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
01115>                     N=[3], TP=[0.64]hrs,
01116>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01117> *------------------|-------------------------------------------------------------|
01118> ADD HYD             IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
01119> *------------------|-------------------------------------------------------------|
01120> ADD HYD             IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
01121> *------------------|-------------------------------------------------------------|
01122>
01123>
01124> *******************************************************************************
01125> *                   11    000     Y  Y  RRRR       CCCC  H   H  IIIII
01126> *                  1 1   0   0   Y  Y  R   R     C      H   H    I
01127> *                    1   0   0    Y    RRRR      C      HHHHH    I
01128> *                    1   0   0    Y    R  R      C      H   H    I
01129> *                  11111  000     Y    R   R      CCCC  H   H  IIIII
01130> *******************************************************************************
01131> *******************************************************************************
01132> *                              10-YEAR, 3 HOUR CHICAGO STORM
01133> *******************************************************************************
01134> *******************************************************************************
01135> CHICAGO STORM       IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
01136>                     ICASEcs=[2],
01137>                     Enter ordinates of IDF curve below, at least seven points
01138>                         TIME (min)     Intensity(mm/hr)
01139>                           [5]          [185.8]
01140>                           [10]         [114.9]
01141>                           [15]         [86.8]
01142>                           [30]         [53.7]
01143>                           [60]         [33.2]
01144>                           [120]        [20.5]
01145>                           [360]        [9.6]
01146>                           [720]        [5.9]
01147>                           [1440]       [3.7]
01148>                             -1           -1
01149> *------------------|-------------------------------------------------------------|
01150> *------------------|-------------------------------------------------------------|
01151> *                  |                                                             |
01152> *                  |                  Controlled Runoff From ZONE 1              |
01153> *                  |                                                             |
01154> *------------------|-------------------------------------------------------------|
01155> *                  |                                                             |
01156> *------------------|-------------------------------------------------------------|
01157> *------------------|--------------- SWM Facility #1 Area ----------------------|
01158> *------------------|------------------ West Site Area -------------------------|
01159> *------------------|-------------------------------------------------------------|
01160> CALIB NASHYD        ID=[11], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
01161>                     DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
01162>                     N=[3], TP=[0.26]hrs,
01163>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01164> *------------------|-------------------------------------------------------------|
01165> CALIB STANDHYD      ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
01166>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
01167>                     SCS curve number CN=[74],
01168>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01169>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
01170>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01171>                                           LGI=[287](m), MNI=[0.013], SCI=[0](min),
01172>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01173> *------------------|-------------------------------------------------------------|
01174> CALIB STANDHYD      ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
01175>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
01176>                     SCS curve number CN=[74],
01177>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01178>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
01179>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01180>                                           LGI=[81](m), MNI=[0.013], SCI=[0](min),
01181>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01182> *------------------|-------------------------------------------------------------|
01183> CALIB STANDHYD      ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
01184>                     XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01185>                     SCS curve number CN=[74],
01186>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01187>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
01188>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01189>                                           LGI=[113](m), MNI=[0.013], SCI=[0](min),
01190>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01191> *------------------|-------------------------------------------------------------|
01192> ADD HYD             IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
01193> *------------------|-------------------------------------------------------------|
01194> *------------------|---------------- SWM Facility #1 ----------------------------|
01195> *------------------|-------------------------------------------------------------|
01196> ROUTE RESERVOIR     IDout=[11],   NHYD=["P#1Out"],  IDin=[5],
01197>                     RDT=[1](min),
01198>                          TABLE of ( OUTFLOW-STORAGE ) values
01199>                                     (cms) - (ha-m)
01200>                                   [   0.0 , 0.0   ]
01201>                                   [ 0.005 , 0.034 ]
01202>                                   [ 0.011 , 0.114 ]
01203>                                   [ 0.013 , 0.164 ]
01204>                                   [ 0.017 , 0.297 ]
01205>                                   [ 0.018 , 0.380 ]
01206>                                   [ 0.020 , 0.523 ]
01207>                                   [ 0.022 , 0.734 ]
01208>                                   [ 0.067 , 0.848 ]
01209>                                   [ 0.252 , 1.092 ]
01210>                                   [   -1  ,  -1   ]  (max twenty pts)
01211>                          IDovf=[2], NHYDovf=["P#1Over"]
01212> *------------------|-------------------------------------------------------------|
01213> *------------------|-------------------------------------------------------------|
01214> *                  |                                                             |
01215> *                  |                   Watercourse Flows- ZONE 1                 |
01216> *                  |                                                             |
01217> *------------------|-------------------------------------------------------------|
01218> *------------------|-------------------------------------------------------------|
01219> *------------------|------------- West Watercourse Area -------------------------|
01220> *------------------|------------- Small Unnamed Tributary -----------------------|
01221> *------------------|-------------------------------------------------------------|
01222> *------------------|-------------------------------------------------------------|
01223> CALIB NASHYD        ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
01224>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
01225>                     N=[3], TP=[0.57]hrs,
01226>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01227> *------------------|-------------------------------------------------------------|
01228> ROUTE CHANNEL       IDout=[4], NHYD=["SiteLag"], IDin=[3],
01229>                     RDT=[1](min),
01230>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
01231>                                        FPSLOPE=[0.96](%),
01232>                     SECNUM=[1],       NSEG=[3]
01233>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
01234>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01235>                                                    [ 48.0, 514.81]
01236>                                                    [ 60.0, 514.69]
01237>                                                    [ 68.5, 514.54]
01238>                                                    [ 75.5, 514.23]
01239>                                                    [ 76.0, 514.06]
01240>                                                    [ 77.5, 514.06]
01241>                                                    [ 78.5, 514.36]
01242>                                                    [ 79.5, 514.39]
01243>                                                    [ 92.5, 514.49]
01244>                                                    [103.5, 514.51]
01245>                                                    [118.5, 514.67]
01246>                                                    [130.5, 514.50]
01247>                                                    [151.0, 515.00]
01248> *------------------|-------------------------------------------------------------|
01249> CALIB NASHYD        ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
01250>                     DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
01251>                     N=[3], TP=[0.40]hrs,
01252>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01253> *------------------|-------------------------------------------------------------|
01254> *------------------|-------- Total Flow at South Property Line ----------------|
01255> *------------------|-------------------------------------------------------------|
01256> ADD HYD             IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
01257> *------------------|-------------------------------------------------------------|
01258> ROUTE CHANNEL       IDout=[1], NHYD=["DS Lag"], IDin=[3],
01259>                     RDT=[1](min),
01260>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
01261>                                        FPSLOPE=[0.96](%),
01262>                     SECNUM=[1],       NSEG=[3]
01263>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
01264>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01265>                                                    [ 48.0, 514.81]
01266>                                                    [ 60.0, 514.69]
01267>                                                    [ 68.5, 514.54]
01268>                                                    [ 75.5, 514.23]
01269>                                                    [ 76.0, 514.06]
01270>                                                    [ 77.5, 514.06]
01271>                                                    [ 78.5, 514.36]
01272>                                                    [ 79.5, 514.39]
01273>                                                    [ 92.5, 514.49]
01274>                                                    [103.5, 514.51]
01275>                                                    [118.5, 514.67]
01276>                                                    [130.5, 514.50]
01277>                                                    [151.0, 515.00]
01278> *------------------|-------------------------------------------------------------|
01279> CALIB NASHYD        ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
01280>                     DWF=[0](cms),  CN/C=[60], IA=[10](mm),
01281>                     N=[3], TP=[0.47]hrs,
01282>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01283> *------------------|-------------------------------------------------------------|
01284>
01285>
01286>
01287> *------------------|-------------------------------------------------------------|
01288> *                  |                                                             |
01289> *                  |                  Controlled Runoff From ZONE 2              |
01290> *                  |                                                             |
01291> *------------------|-------------------------------------------------------------|
01292>
01293> *------------------|-------------------------------------------------------------|
01294> CALIB STANDHYD      ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
01295>                     XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
01296>                     SCS curve number CN=[74],
01297>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01298>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
01299>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01300>                                           LGI=[313](m), MNI=[0.013], SCI=[0](min),
01301>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01302> *------------------|-------------------------------------------------------------|
01303> CALIB STANDHYD      ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
01304>                     XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
01305>                     SCS curve number CN=[74],
01306>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01307>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
01308>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01309>                                           LGI=[37](m), MNI=[0.013], SCI=[0](min),
01310>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01311> *------------------|-------------------------------------------------------------|
01312> DIVERT HYD          IDin=[4], NIDout=[2]max five,
01313>                     outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
01314>                     flow distribution table: (modify as necessary)
01315>                     Note: all flows are in (cms)
01316>                        QIDi +  QIDii   =  QTOTAL
01317>                       [ 0.000  +  0.000   =  0.000]
01318>                       [ 0.035 +   0.000   =  0.035]
01319>                       [ 0.035 +   10.000  =  10.035]end
01320> *------------------|-------------------------------------------------------------|
01321> CALIB STANDHYD      ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
01322>                     XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
01323>                     SCS curve number CN=[74],
01324>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01325>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
01326>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01327>                                           LGI=[47](m), MNI=[0.013], SCI=[0](min),
01328>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01329> *------------------|-------------------------------------------------------------|
01330> CALIB STANDHYD      ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
01331>                     XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
01332>                     SCS curve number CN=[74],
01333>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01334>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
01335>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01336>                                           LGI=[86](m), MNI=[0.013], SCI=[0](min),
01337>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01338> *------------------|-------------------------------------------------------------|
01339> *------------------|-------------------------------------------------------------|
01340> ADD HYD             IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
01341> *------------------|-------------------------------------------------------------|
01342> *------------------|---------------- SWM Facility #2 ----------------------------|
01343> *------------------|-------------------------------------------------------------|
01344> ROUTE RESERVOIR     IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
01345>                     RDT=[1](min),
01346>                          TABLE of ( OUTFLOW-STORAGE ) values
01347>                                     (cms) - (ha-m)
01348>                                   [  0.0 , 0.0  ]
01349>                                   [0.008 , 0.048]
01350>                                   [0.026 , 0.123]
01351>                                   [0.036 ,  0.204]
01352>                                   [0.044 ,  0.261]
01353>                                   [0.080 ,  0.320]
01354>                                   [0.110 ,  0.350]
01355>                                   [0.146 ,  0.380]
01356>                                   [0.239 ,  0.443]
01357>                                   [0.560 ,  0.574]
01358>                                   [0.828 ,  0.642]
01359>                                   [1.154 ,  0.711]
01360>                                   [1.535 ,  0.782]
01361>                                   [1.746 ,  0.818]
01362>                                   [1.924 ,  0.847]
01363>                                   [1.984 ,  0.855]
01364>                                   [3.005 ,  0.940]
01365>                                   [4.549 ,  1.032]
01366>                                   [12.016, 1.330]
01367>                                   [   -1  ,  -1   ]  (max twenty pts)
01368>                          IDovf=[4], NHYDovf=["P#2Over"]
01369> *------------------|-------------------------------------------------------------|
01370> ADD HYD             IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
01371> *------------------|-------------------------------------------------------------|
01372> DIVERT HYD          IDin=[5], NIDout=[2]max five,
01373>                     outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
01374>                     flow distribution table: (modify as necessary)
01375>                     Note: all flows are in (cms)
01376>                        QIDi +  QIDii   =  QTOTAL
01377>                       [   0  +    0    =    0   ]
01378>                       [ 0.000 +   0.008  =  0.008 ]
01379>                       [ 0.000 +   0.022  =  0.026 ]
01380>                       [ 0.000 +   0.033  =  0.033 ]
01381>                       [ 0.000 +   0.044  =  0.044 ]
01382>                       [ 0.019 +   0.062  =  0.080 ]
01383>                       [ 0.053 +   0.093  =  0.146 ]
01384>                       [ 0.097 +   0.143  =  0.239 ]
01385>                       [ 0.208 +   0.352  =  0.560 ]
01386>                       [ 0.345 +   0.809  =  1.1554 ]
01387>                       [ 0.461 +   1.285  =  1.746 ]
01388>                       [ 0.503 +   1.486  =  1.988 ]
01389>                       [ 0.589 +   2.584  =  3.173 ]
01390>                       [ 0.679 +   4.312  =  4.991 ]
01391>                       [ 0.975 +   12.716 = 13.692] end
01392> *------------------|-------------------------------------------------------------|
01393> *                  |                                                             |
01394> *                  |                   Watercourse Flows- ZONE 2                 |
01395> *                  |                                                             |
01396> *------------------|-------------------------------------------------------------|
01397> *------------------|-------------------------------------------------------------|
01398> *------------------|------------- East Watercourse Area -----------------------|
01399> *------------------|----------------      Foley Drain      ----------------------|
01400> *------------------|-------------------------------------------------------------|
01401> *------------------|-------------------------------------------------------------|
01402> *------------------|-------------------------------------------------------------|
01403> CALIB NASHYD        ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
01404>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
01405>                     N=[3], TP=[1.87]hrs,
01406>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01407> *------------------|-------------------------------------------------------------|
01408> CALIB NASHYD        ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
01409>                     DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
01410>                     N=[3], TP=[0.36]hrs,
01411>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01412> *------------------|-------------------------------------------------------------|
01413> ADD HYD             IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
01414> *------------------|-------------------------------------------------------------|
01415> ROUTE CHANNEL       IDout=[5], NHYD=["SiteLag"], IDin=[8],
01416>                     RDT=[1](min),
01417>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
01418>                                        FPSLOPE=[0.65](%),
01419>                     SECNUM=[1],       NSEG=[3]
01420>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
01421>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
01422>                                                    [196.60, 514.00]
01423>                                                    [215.60, 513.59]
01424>                                                    [216.55, 513.00]
```

```
01425>                                                     [217.20, 512.50]
01426>                                                     [217.45, 512.46]
01427>                                                     [217.80, 512.50]
01428>                                                     [218.95, 513.00]
01429>                                                     [221.30, 513.50]
01430>                                                     [221.70, 513.71]
01431>                                                     [230.40, 513.71]
01432>                                                     [243.80, 514.00]
01433>                                                     [249.40, 514.12]
01434>                                                     [259.50, 514.28]
01435>                                                     [266.50, 514.50]
01436> *#-----------------|-----------------------------------------------------------|
01437>
01438> *#-----------------|-----------------------------------------------------------|
01439> *#                 |                                                           |
01440> *#                 |            Controlled Runoff From ZONE 3                  |
01441> *#                 |                                                           |
01442> *#-----------------|-----------------------------------------------------------|
01443> *#-----------------|-----------------------------------------------------------|
01444> CALIB STANDHYD      ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
01445>                     XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
01446>                     SCS curve number CN=[74],
01447>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01448>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
01449>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01450>                                          LGI=[259](m), MNI=[0.013], SCI=[0](min),
01451>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01452> *#-----------------|-----------------------------------------------------------|
01453> CALIB STANDHYD      ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
01454>                     XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
01455>                     SCS curve number CN=[74],
01456>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01457>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
01458>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01459>                                          LGI=[90](m), MNI=[0.013], SCI=[0](min),
01460>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01461> *#-----------------|-----------------------------------------------------------|
01462> ADD HYD             IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
01463> *#-----------------|-----------------------------------------------------------|
01464> *#-----------------|-----------------------------------------------------------|
01465> *#-----------------|---------------- SWM Facility #3 --------------------------|
01466> *#-----------------|-----------------------------------------------------------|
01467> ROUTE RESERVOIR     IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
01468>                     RDT=[1](min),
01469>                           TABLE of ( OUTFLOW-STORAGE ) values
01470>                                       (cms) - (ha-m)
01471>                                     [   0.0 , 0.0  ]
01472>                                     [ 0.007 , 0.036]
01473>                                     [ 0.013 , 0.075]
01474>                                     [ 0.016 , 0.107]
01475>                                     [ 0.017 , 0.115]
01476>                                     [ 0.023 , 0.202]
01477>                                     [ 0.027 , 0.272]
01478>                                     [ 0.030 , 0.348]
01479>                                     [ 0.035 , 0.517]
01480>                                     [ 0.040 , 0.709]
01481>                                     [ 0.045 , 0.922]
01482>                                     [ 1.247 , 1.155]
01483>                                     [   -1  ,  -1  ]  (max twenty pts)
01484>                           IDovf=[8], NHYDovf=["P#2Over"]
01485> *#-----------------|-----------------------------------------------------------|
01486> ADD HYD             IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
01487> *#-----------------|-----------------------------------------------------------|
01488> CALIB NASHYD        ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
01489>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
01490>                     N=[3], TP=[0.64]hrs,
01491>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01492> *#-----------------|-----------------------------------------------------------|
01493> ADD HYD             IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
01494> *#-----------------|-----------------------------------------------------------|
01495> ADD HYD             IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
01496> *#-----------------|-----------------------------------------------------------|
01497>
01498>
01499> *#-----------------------------------------------------------------------------|
01500> *#                2222  5555   Y   Y  RRRR       CCCC  H   H  IIIII            |
01501> *#                   2  5       Y Y   R   R     C      H   H    I              |
01502> *#                2222  5555     Y    RRRR      C      HHHHH    I              |
01503> *#                2        5     Y    R  R      C      H   H    I              |
01504> *#                2222  5555     Y    R   R      CCCC  H   H  IIIII            |
01505> *#-----------------------------------------------------------------------------|
01506> *#******************************************************************************
01507> *#                            25-YEAR, 3 HOUR CHICAGO STORM
01508> *#******************************************************************************
01509> *#-----------------|-----------------------------------------------------------|
01510> CHICAGO STORM       IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
01511>                     ICASEcs=[2],
01512>                     Enter ordinates of IDF curve below, at least seven points
01513>                         TIME (min)    Intensity(mm/hr)
01514>                           [5]         [220.5]
01515>                           [10]        [136.4]
01516>                           [15]        [103.0]
01517>                           [30]        [63.7]
01518>                           [60]        [39.4]
01519>                           [120]       [24.4]
01520>                           [360]       [11.4]
01521>                           [720]       [7.0]
01522>                           [1440]      [4.4]
01523>                              -1             -1
01524> *#-----------------|-----------------------------------------------------------|
01525> *#-----------------|-----------------------------------------------------------|
01526> *#                 |                                                           |
01527> *#                 |            Controlled Runoff From ZONE 1                  |
01528> *#                 |                                                           |
01529> *#-----------------|-----------------------------------------------------------|
01530> *#
01531> *%-----------------|-----------------------------------------------------------|
01532> *#-----------------|--------------- SWM Facility #1 Area ----------------------|
01533> *#-----------------|------------------ West Site Area -------------------------|
01534> *#-----------------|-----------------------------------------------------------|
01535> CALIB NASHYD        ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
01536>                     DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
01537>                     N=[3], TP=[0.26]hrs,
01538>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01539> *#-----------------|-----------------------------------------------------------|
01540> CALIB STANDHYD      ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
01541>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
01542>                     SCS curve number CN=[74],
01543>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01544>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
01545>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01546>                                          LGI=[287](m), MNI=[0.013], SCI=[0](min),
01547>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01548> *#-----------------|-----------------------------------------------------------|
01549> CALIB STANDHYD      ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
01550>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
01551>                     SCS curve number CN=[74],
01552>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01553>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
01554>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01555>                                          LGI=[81](m), MNI=[0.013], SCI=[0](min),
01556>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01557> *#-----------------|-----------------------------------------------------------|
01558> CALIB STANDHYD      ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
01559>                     XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01560>                     SCS curve number CN=[74],
01561>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01562>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
01563>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01564>                                          LGI=[113](m), MNI=[0.013], SCI=[0](min),
01565>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01566> *#-----------------|-----------------------------------------------------------|
01567> ADD HYD             IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
01568> *#-----------------|-----------------------------------------------------------|
01569> *#-----------------|---------------- SWM Facility #1 --------------------------|
01570> *#-----------------|-----------------------------------------------------------|
01571> ROUTE RESERVOIR     IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
01572>                     RDT=[1](min),
01573>                           TABLE of ( OUTFLOW-STORAGE ) values
01574>                                       (cms) - (ha-m)
01575>                                     [   0.0 , 0.0   ]
01576>                                     [ 0.005 , 0.034 ]
01577>                                     [ 0.011 , 0.114 ]
01578>                                     [ 0.013 , 0.164 ]
01579>                                     [ 0.017 , 0.297 ]
01580>                                     [ 0.018 , 0.380 ]
01581>                                     [ 0.020 , 0.523 ]
01582>                                     [ 0.022 , 0.734 ]
01583>                                     [ 0.067 , 0.848 ]
01584>                                     [ 0.252 , 1.092 ]
01585>                                     [   -1  ,  -1  ]  (max twenty pts)
01586>                           IDovf=[2], NHYDovf=["P#1Over"]
01587> *#-----------------|-----------------------------------------------------------|
01588> *#-----------------|-----------------------------------------------------------|
01589> *#                 |                                                           |
01590> *#                 |                   Watercourse Flows- ZONE 1               |
01591> *#                 |                                                           |
01592> *#-----------------|-----------------------------------------------------------|
01593> *#-----------------|-----------------------------------------------------------|
01594> *#-----------------|-------------- West Watercourse Area ----------------------|
01595> *#-----------------|------------- Small Unnmaed Tributary ---------------------|
01596> *#-----------------|-----------------------------------------------------------|
01597> *%-----------------|-----------------------------------------------------------|
01598> CALIB NASHYD        ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
01599>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
01600>                     N=[3], TP=[0.57]hrs,
01601>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01602> *#-----------------|-----------------------------------------------------------|
01603> ROUTE CHANNEL       IDout=[4], NHYD=["SiteLag"], IDin=[3],
01604>                     RDT=[1](min),
01605>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
01606>                                         FPSLOPE=[0.96](%),
01607>                     SECNUM=[1],       NSEG=[3]
01608>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
01609>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01610>                                                    [ 48.0, 514.81]
01611>                                                    [ 60.0, 514.69]
01612>                                                    [ 68.5, 514.54]
01613>                                                    [ 75.5, 514.23]
01614>                                                    [ 76.0, 514.06]
01615>                                                    [ 77.5, 514.06]
01616>                                                    [ 78.5, 514.36]
01617>                                                    [ 79.5, 514.39]
01618>                                                    [ 92.5, 514.49]
01619>                                                    [103.5, 514.51]
01620>                                                    [118.5, 514.67]
01621>                                                    [130.5, 514.50]
01622>                                                    [151.0, 515.00]
01623> *%-----------------|-----------------------------------------------------------|
01624> CALIB NASHYD        ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
01625>                     DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
01626>                     N=[3], TP=[0.40]hrs,
01627>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01628> *#-----------------|-----------------------------------------------------------|
01629> *#-----------------|-------- Total Flow at South Property Line ----------------|
01630> *#-----------------|-----------------------------------------------------------|
01631> ADD HYD             IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
01632> *#-----------------|-----------------------------------------------------------|
01633> ROUTE CHANNEL       IDout=[1], NHYD=["DS Lag"], IDin=[3],
01634>                     RDT=[1](min),
01635>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
01636>                                         FPSLOPE=[0.96](%),
01637>                     SECNUM=[1],       NSEG=[3]
01638>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
01639>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
01640>                                                    [ 48.0, 514.81]
01641>                                                    [ 60.0, 514.69]
01642>                                                    [ 68.5, 514.54]
01643>                                                    [ 75.5, 514.23]
01644>                                                    [ 76.0, 514.06]
01645>                                                    [ 77.5, 514.06]
01646>                                                    [ 78.5, 514.36]
01647>                                                    [ 79.5, 514.39]
01648>                                                    [ 92.5, 514.49]
01649>                                                    [103.5, 514.51]
01650>                                                    [118.5, 514.67]
01651>                                                    [130.5, 514.50]
01652>                                                    [151.0, 515.00]
01653> *#-----------------|-----------------------------------------------------------|
01654> CALIB NASHYD        ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
01655>                     DWF=[0](cms),  CN/C=[60], IA=[10](mm),
01656>                     N=[3], TP=[0.47]hrs,
01657>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01658> *#-----------------|-----------------------------------------------------------|
01659>
01660>
01661>
01662> *#-----------------|-----------------------------------------------------------|
01663> *#                 |                                                           |
01664> *#                 |            Controlled Runoff From ZONE 2                  |
01665> *#                 |                                                           |
01666> *#-----------------|-----------------------------------------------------------|
01667>
01668> *#-----------------|-----------------------------------------------------------|
01669> CALIB STANDHYD      ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
01670>                     XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
01671>                     SCS curve number CN=[74],
01672>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01673>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
01674>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01675>                                          LGI=[313](m), MNI=[0.013], SCI=[0](min),
01676>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01677> *#-----------------|-----------------------------------------------------------|
01678> CALIB STANDHYD      ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
01679>                     XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
01680>                     SCS curve number CN=[74],
01681>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01682>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
01683>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01684>                                          LGI=[37](m), MNI=[0.013], SCI=[0](min),
01685>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01686> *#-----------------|-----------------------------------------------------------|
01687> DIVERT HYD          IDin=[4], NIDout=[2]max five,
01688>                     outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
01689>                     flow distribution table: (modify as necessary)
01690>                     Note: all flows are in (cms)
01691>                        QIDi +  QIDii   =  QTOTAL
01692>                        [ 0.000  +  0.000   =  0.000]
01693>                        [ 0.035 +   0.000   =  0.035]
01694>                        [ 0.035 +   10.000  =  10.035]end
01695> *#-----------------|-----------------------------------------------------------|
01696> CALIB STANDHYD      ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
01697>                     XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
01698>                     SCS curve number CN=[74],
01699>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01700>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
01701>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01702>                                          LGI=[47](m), MNI=[0.013], SCI=[0](min),
01703>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01704> *#-----------------|-----------------------------------------------------------|
01705> CALIB STANDHYD      ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
01706>                     XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
01707>                     SCS curve number CN=[74],
01708>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
01709>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
01710>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01711>                                          LGI=[86](m), MNI=[0.013], SCI=[0](min),
01712>                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01713> *#-----------------|-----------------------------------------------------------|
01714> *#-----------------|-----------------------------------------------------------|
01715> ADD HYD             IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
01716> *#-----------------|-----------------------------------------------------------|
01717> *#-----------------|---------------- SWM Facility #2 --------------------------|
01718> *#-----------------|-----------------------------------------------------------|
01719> ROUTE RESERVOIR     IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
01720>                     RDT=[1](min),
01721>                           TABLE of ( OUTFLOW-STORAGE ) values
01722>                                       (cms) - (ha-m)
01723>                                     [  0.0 , 0.0  ]
01724>                                     [0.008 , 0.048]
01725>                                     [0.026 , 0.123]
01726>                                     [0.036 ,  0.204]
01727>                                     [0.044 ,  0.261]
01728>                                     [0.080 ,  0.320]
01729>                                     [0.110 ,  0.350]
01730>                                     [0.146 ,  0.380]
01731>                                     [0.239 ,  0.443]
01732>                                     [0.560 ,  0.574]
01733>                                     [0.828 ,  0.642]
01734>                                     [1.154 ,  0.711]
01735>                                     [1.535 ,  0.782]
01736>                                     [1.746 ,  0.818]
01737>                                     [1.924 ,  0.847]
01738>                                     [1.984 ,  0.855]
01739>                                     [3.005 ,  0.940]
01740>                                     [4.549 ,  1.032]
01741>                                     [12.016, 1.330]
01742>                                     [   -1  ,  -1  ]  (max twenty pts)
01743>                           IDovf=[4], NHYDovf=["P#2Over"]
01744> *#-----------------|-----------------------------------------------------------|
01745> ADD HYD             IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
01746> *#-----------------|-----------------------------------------------------------|
01747> DIVERT HYD          IDin=[5], NIDout=[2]max five,
01748>                     outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
01749>                     flow distribution table: (modify as necessary)
01750>                     Note: all flows are in (cms)
01751>                          QIDi +  QIDii   =  QTOTAL
01752>                        [   0  +    0     =    0   ]
01753>                        [ 0.000 +   0.008  =  0.008 ]
01754>                        [ 0.000 +   0.022  =  0.026 ]
01755>                        [ 0.000 +   0.033  =  0.033 ]
01756>                        [ 0.000 +   0.044  =  0.044 ]
01757>                        [ 0.019 +   0.062  =  0.080 ]
01758>                        [ 0.053 +   0.093  =  0.146 ]
01759>                        [ 0.097 +   0.143  =  0.239 ]
01760>                        [ 0.208 +   0.352  =  0.560 ]
01761>                        [ 0.345 +   0.809  =  1.1554 ]
01762>                        [ 0.461 +   1.285  = 1.746 ]
01763>                        [ 0.503 +   1.486  = 1.988 ]
01764>                        [ 0.589 +   2.584  = 3.173 ]
01765>                        [ 0.679 +   4.312  =  4.991 ]
01766>                        [ 0.975 +   12.716 = 13.692] end
01767> *#-----------------|-----------------------------------------------------------|
01768> *#                 |                                                           |
01769> *#                 |                   Watercourse Flows- ZONE 2               |
01770> *#                 |                                                           |
01771> *#-----------------|-----------------------------------------------------------|
01772> *#-----------------|-----------------------------------------------------------|
01773> *#-----------------|-------------- East Watercourse Area ----------------------|
01774> *#-----------------|-------------      Foley Drain        ---------------------|
01775> *#-----------------|-----------------------------------------------------------|
01776> *%-----------------|-----------------------------------------------------------|
01777> *%-----------------|-----------------------------------------------------------|
01778> CALIB NASHYD        ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
01779>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
01780>                     N=[3], TP=[1.87]hrs,
```

```
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
                    DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
                    N=[3], TP=[0.36]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
*#------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[5], NHYD=["SiteLag"], IDin=[8],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                      FPSLOPE=[0.65](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                   [196.60, 514.00]
                                                   [215.60, 513.59]
                                                   [216.55, 513.00]
                                                   [217.20, 512.50]
                                                   [217.45, 512.46]
                                                   [217.80, 512.50]
                                                   [218.95, 513.00]
                                                   [221.30, 513.50]
                                                   [221.70, 513.71]
                                                   [230.40, 513.71]
                                                   [243.80, 514.00]
                                                   [249.40, 514.12]
                                                   [259.50, 514.28]
                                                   [266.50, 514.50]
*#------------------|-------------------------------------------------------------|
*#
*#                                Controlled Runoff From ZONE 3
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
                    XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[259](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
                    XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[90](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
*#------------------|---------------- SWM Facility #3 -------------------------|
*#------------------|-------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[7],   NHYD=["##3Out"],  IDin=[9],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                     [   0.0 , 0.0  ]
                                     [ 0.007 , 0.036]
                                     [ 0.013 , 0.075]
                                     [ 0.016 , 0.107]
                                     [ 0.017 , 0.115]
                                     [ 0.023 , 0.202]
                                     [ 0.027 , 0.272]
                                     [ 0.030 , 0.348]
                                     [ 0.035 , 0.517]
                                     [ 0.040 , 0.709]
                                     [ 0.045 , 0.922]
                                     [ 1.247 , 1.155]
                                     [   -1  ,  -1  ]  (max twenty pts)
                        IDovf=[8], NHYDovf=["P#2Over"]
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                    DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
                    N=[3], TP=[0.64]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
*#------------------|-------------------------------------------------------------|
*#
*#
*#------------------------------------------------------------------------------|
*#                 5555  000   Y   Y  RRRR       CCCC  H   H  IIIII
*#                 5     0   0   Y Y   R   R     C      H   H    I
*#                 5555  0   0    Y    RRRR      C      HHHHH    I
*#                    5  0   0    Y    R  R      C      H   H    I
*#                 5555  000     Y    R   R      CCCC  H   H  IIIII
*#------------------|-------------------------------------------------------------|
*****************************************************************************
*#                          50-YEAR, 3 HOUR CHICAGO STORM
*****************************************************************************
*#------------------|-------------------------------------------------------------|
CHICAGO STORM       IUNITS=[2],  TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
                    ICASEcs=[2],
                    Enter ordinates of IDF curve below, at least seven points
                          TIME (min)    Intensity(mm/hr)
                             [5]         [245.1]
                             [10]        [151.7]
                             [15]        [114.6]
                             [30]        [70.9]
                             [60]        [43.9]
                             [120]       [27.2]
                             [360]       [12.7]
                             [720]       [7.9]
                             [1440]      [4.9]
                                -1                -1
*#------------------|-------------------------------------------------------------|
*#
*#
*#                                Controlled Runoff From ZONE 1
*#
*#------------------|-------------------------------------------------------------|
*#
*#------------------|---------------- SWM Facility #1 Area ---------------------|
*#------------------|---------------- West Site Area ---------------------------|
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
                    DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
                    N=[3], TP=[0.26]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[287](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[81](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
                    XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[113](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
*#------------------|-------------------------------------------------------------|
*#------------------|---------------- SWM Facility #1 ------------------------|
*#------------------|-------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                     [   0.0 , 0.0  ]
                                     [ 0.005 , 0.034 ]
                                     [ 0.011 , 0.114 ]
                                     [ 0.013 , 0.164 ]
                                     [ 0.017 , 0.297 ]
                                     [ 0.018 , 0.380 ]
                                     [ 0.020 , 0.523 ]
                                     [ 0.022 , 0.734 ]
                                     [ 0.067 , 0.848 ]
                                     [ 0.252 , 1.092 ]
                                     [   -1  ,  -1  ]  (max twenty pts)
                        IDovf=[2], NHYDovf=["P#1Over"]
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
*#
*#                                Watercourse Flows- ZONE 1
*#
*#------------------|-------------------------------------------------------------|
*#------------------|---------------- West Watercourse Area -------------------|
*#------------------|---------------- Small Unnmaed Tributary ------------------|
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
                    DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
                    N=[3], TP=[0.57]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[4], NHYD=["SiteLag"], IDin=[3],
                    RDT=[1](min),
                    CHLGTH=[425](m),  CHSLOPE=[0.96](%),
                                      FPSLOPE=[0.96](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                   [ 48.0, 514.81]
                                                   [ 60.0, 514.69]
                                                   [ 68.5, 514.54]
                                                   [ 75.5, 514.23]
                                                   [ 76.0, 514.06]
                                                   [ 77.5, 514.06]
                                                   [ 78.5, 514.36]
                                                   [ 79.5, 514.39]
                                                   [ 92.5, 514.49]
                                                   [103.5, 514.51]
                                                   [118.5, 514.67]
                                                   [130.5, 514.50]
                                                   [151.0, 515.00]
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
                    DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
                    N=[3], TP=[0.40]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
*#------------------|------- Total Flow at South Property Line ----------------|
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
*#------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[1], NHYD=["DS Lag"], IDin=[3],
                    RDT=[1](min),
                    CHLGTH=[150](m),  CHSLOPE=[0.96](%),
                                      FPSLOPE=[0.96](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                   [ 48.0, 514.81]
                                                   [ 60.0, 514.69]
                                                   [ 68.5, 514.54]
                                                   [ 75.5, 514.23]
                                                   [ 76.0, 514.06]
                                                   [ 77.5, 514.06]
                                                   [ 78.5, 514.36]
                                                   [ 79.5, 514.39]
                                                   [ 92.5, 514.49]
                                                   [103.5, 514.51]
                                                   [118.5, 514.67]
                                                   [130.5, 514.50]
                                                   [151.0, 515.00]
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
                    DWF=[0](cms),  CN/C=[60], IA=[10](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
*#
*#
*#------------------|-------------------------------------------------------------|
*#
*#                                Controlled Runoff From ZONE 2
*#
*#------------------|-------------------------------------------------------------|
*#
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
                    XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[313](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
                    XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[37](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
DIVERT HYD          IDin=[4], NIDout=[2]max five,
                    outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
                    flow distribution table: (modify as necessary)
                    Note: all flows are in (cms)
                       QIDi +  QIDii    =  QTOTAL
                       [ 0.000  +  0.000   =  0.000]
                       [ 0.035 +   0.000   =  0.035]
                       [ 0.035 +   10.000  =  10.035]end
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
                    XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[47](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
                    XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[86](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
*#------------------|-------------------------------------------------------------|
*#------------------|---------------- SWM Facility #2 ------------------------|
*#------------------|-------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                     [  0.0 , 0.0  ]
                                     [ 0.008 , 0.048]
                                     [ 0.026 , 0.123]
                                     [ 0.036 ,  0.204]
                                     [ 0.044 ,  0.261]
                                     [ 0.080 ,  0.320]
                                     [ 0.110 ,  0.350]
                                     [ 0.146 ,  0.380]
                                     [ 0.239 ,  0.443]
                                     [ 0.560 ,  0.574]
                                     [ 0.828 ,  0.642]
                                     [ 1.154 ,  0.711]
                                     [ 1.535 ,  0.782]
                                     [ 1.746 ,  0.818]
                                     [ 1.924 ,  0.847]
                                     [ 1.984 ,  0.855]
                                     [ 3.005 ,  0.940]
                                     [ 4.549 ,  1.032]
                                     [ 12.016, 1.330]
                                     [   -1  ,  -1  ]  (max twenty pts)
                        IDovf=[4], NHYDovf=["P#2Over"]
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
*#------------------|-------------------------------------------------------------|
DIVERT HYD          IDin=[5], NIDout=[2]max five,
                    outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
                    flow distribution table: (modify as necessary)
                    Note: all flows are in (cms)
                       QIDi +  QIDii   =  QTOTAL
                       [   0  +   0    =   0   ]
                       [ 0.000 +   0.008  =  0.008 ]
                       [ 0.000 +   0.022  =  0.026 ]
                       [ 0.000 +   0.033  =  0.033 ]
                       [ 0.000 +   0.044  =  0.044 ]
                       [ 0.019 +   0.062  =  0.080 ]
                       [ 0.053 +   0.093  =  0.146 ]
                       [ 0.097 +   0.143  =  0.239 ]
                       [ 0.208 +   0.352  =  0.560 ]
                       [ 0.345 +   0.809  =  1.1554 ]
```

```
                        [ 0.461 +   1.285  = 1.746 ]
                        [ 0.503 +   1.486  = 1.988 ]
                        [ 0.589 +   2.584  = 3.173 ]
                        [ 0.679 +   4.312  =  4.991 ]
                        [ 0.975 +   12.716 = 13.692] end
*------------------|------------------------------------------------------------|
*                  |                                                            |
*                  |                    Watercourse Flows- ZONE 2               |
*                  |                                                            |
*------------------|------------------------------------------------------------|
*------------------|-------------- East Watercourse Area ----------------------|
*------------------|--------------        Foley Drain         ------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
                   DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
                   N=[3], TP=[1.87]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
                   DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
                   N=[3], TP=[0.36]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
*------------------|------------------------------------------------------------|
ROUTE CHANNEL      IDout=[5], NHYD=["SiteLag"], IDin=[8],
                   RDT=[1](min),
                   CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                        FPSLOPE=[0.65](%),
                   SECNUM=[1],        NSEG=[3]
                   ( SEGROUGH, SEGDIST (m)=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
                   ( DISTANCE (m), ELEVATION (m)=[179.70, 514.50]
                                                 [196.60, 514.00]
                                                 [215.60, 513.59]
                                                 [216.55, 513.00]
                                                 [217.20, 512.50]
                                                 [217.45, 512.46]
                                                 [217.80, 512.50]
                                                 [218.95, 513.00]
                                                 [221.30, 513.50]
                                                 [221.70, 513.71]
                                                 [230.40, 513.71]
                                                 [243.80, 514.00]
                                                 [249.40, 514.12]
                                                 [259.50, 514.28]
                                                 [266.50, 514.50]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                  |                                                            |
*                  |                  Controlled Runoff From ZONE 3             |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
                   XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[259](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
                   XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[90](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #3 ----------------------------|
*------------------|------------------------------------------------------------|
ROUTE RESERVOIR    IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
                   RDT=[1](min),
                         TABLE of ( OUTFLOW-STORAGE ) values
                                     (cms) - (ha-m)
                                   [   0.0 , 0.0  ]
                                   [ 0.007 , 0.036]
                                   [ 0.013 , 0.075]
                                   [ 0.016 , 0.107]
                                   [ 0.017 , 0.115]
                                   [ 0.023 , 0.202]
                                   [ 0.027 , 0.272]
                                   [ 0.030 , 0.348]
                                   [ 0.035 , 0.517]
                                   [ 0.040 , 0.709]
                                   [ 0.045 , 0.922]
                                   [ 1.247 , 1.155]
                                   [   -1  ,  -1  ]  (max twenty pts)
                         IDovf=[8], NHYDovf=["P#2Over"]
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                   DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
                   N=[3], TP=[0.64]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*          11    000    000   Y   Y  RRRR       CCCC  H   H  IIIII
*         1 1   0   0  0   0   Y Y   R   R     C      H   H    I
*          1   0   0 0  0   0    Y    RRRR     C      HHHHH    I
*          1   0   0 0  0   0    Y    R  R     C      H   H    I
*         11111  000    000    Y    R   R      CCCC  H   H  IIIII
*------------------|------------------------------------------------------------|
*******************************************************************************
*                              100-YEAR, 3 HOUR CHICAGO STORM                 *
*******************************************************************************
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CHICAGO STORM      IUNITS=[2],   TD=[3](hrs), TPRAT=[0.333],  CSDT=[5](min),
                   ICASE<=[2],
                   Enter ordinates of IDF curve below, at least seven points
                       TIME (min)    Intensity(mm/hr)
                          [5]         [270.2]
                          [10]        [167.2]
                          [15]        [126.3]
                          [30]        [78.2]
                          [60]        [48.4]
                          [120]       [30.0]
                          [360]       [14.0]
                          [720]       [8.7]
                          [1440]      [5.4]
                            -1                -1
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                  |                                                            |
*                  |                  Controlled Runoff From ZONE 1             |
*                  |                                                            |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #1 Area -------------------|
*------------------|---------------- West Site Area ----------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
                   DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
                   N=[3], TP=[0.26]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
                   XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[287](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
                   XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[81](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
                   XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[113](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #1 ----------------------------|
*------------------|------------------------------------------------------------|
ROUTE RESERVOIR    IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
                   RDT=[1](min),
                         TABLE of ( OUTFLOW-STORAGE ) values
                                     (cms) - (ha-m)
                                   [   0.0 , 0.0    ]
                                   [ 0.005 , 0.034 ]
                                   [ 0.011 , 0.114 ]
                                   [ 0.013 , 0.164 ]
                                   [ 0.017 , 0.297 ]
                                   [ 0.018 , 0.380 ]
                                   [ 0.020 , 0.523 ]
                                   [ 0.022 , 0.734 ]
                                   [ 0.067 , 0.848 ]
                                   [ 0.252 , 1.092 ]
                                   [   -1  ,  -1  ]  (max twenty pts)
                         IDovf=[2], NHYDovf=["P#1Over"]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                  |                                                            |
*                  |                    Watercourse Flows- ZONE 1               |
*                  |                                                            |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|-------------- West Watercourse Area ----------------------|
*------------------|--------------  Small Unnmaed Tributary ------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
                   DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
                   N=[3], TP=[0.57]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
ROUTE CHANNEL      IDout=[4], NHYD=["SiteLag"], IDin=[3],
                   RDT=[1](min),
                   CHLGTH=[425](m),  CHSLOPE=[0.96](%),
                                        FPSLOPE=[0.96](%),
                   SECNUM=[1],        NSEG=[3]
                   ( SEGROUGH, SEGDIST (m)=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                   ( DISTANCE (m), ELEVATION (m)=[ 31.0, 515.00]
                                                 [ 48.0, 514.81]
                                                 [ 60.0, 514.69]
                                                 [ 68.5, 514.54]
                                                 [ 75.5, 514.23]
                                                 [ 76.0, 514.06]
                                                 [ 77.5, 514.06]
                                                 [ 78.5, 514.36]
                                                 [ 79.5, 514.39]
                                                 [ 92.5, 514.49]
                                                 [103.5, 514.51]
                                                 [118.5, 514.67]
                                                 [130.5, 514.50]
                                                 [151.0, 515.00]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
                   DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
                   N=[3], TP=[0.40]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|-------- Total Flow at South Property Line ----------------|
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
*------------------|------------------------------------------------------------|
ROUTE CHANNEL      IDout=[1], NHYD=["DS Lag"], IDin=[3],
                   RDT=[1](min),
                   CHLGTH=[150](m),  CHSLOPE=[0.96](%),
                                        FPSLOPE=[0.96](%),
                   SECNUM=[1],        NSEG=[3]
                   ( SEGROUGH, SEGDIST (m)=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                   ( DISTANCE (m), ELEVATION (m)=[ 31.0, 515.00]
                                                 [ 48.0, 514.81]
                                                 [ 60.0, 514.69]
                                                 [ 68.5, 514.54]
                                                 [ 75.5, 514.23]
                                                 [ 76.0, 514.06]
                                                 [ 77.5, 514.06]
                                                 [ 78.5, 514.36]
                                                 [ 79.5, 514.39]
                                                 [ 92.5, 514.49]
                                                 [103.5, 514.51]
                                                 [118.5, 514.67]
                                                 [130.5, 514.50]
                                                 [151.0, 515.00]
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
                   DWF=[0](cms),  CN/C=[60], IA=[10](mm),
                   N=[3], TP=[0.47]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                  |                                                            |
*                  |                  Controlled Runoff From ZONE 2             |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
                   XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[313](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
                   XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[37](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
DIVERT HYD         IDin=[4], NIDout=[2]max five,
                   outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
                   flow distribution table: (modify as necessary)
                   Note: all flows are in (cms)
                      QIDi +  QIDii    =  QTOTAL
                      [ 0.000  +  0.000   =  0.000]
                      [ 0.035 +   0.000   =  0.035]
                      [ 0.035 +   10.000  =  10.035]end
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
                   XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[47](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
                   XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[86](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #2 ----------------------------|
*------------------|------------------------------------------------------------|
ROUTE RESERVOIR    IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
                   RDT=[1](min),
                         TABLE of ( OUTFLOW-STORAGE ) values
                                     (cms) - (ha-m)
                                   [  0.0 , 0.0  ]
                                   [0.008 , 0.048]
                                   [0.026 , 0.123]
                                   [0.036 ,  0.204]
                                   [0.044 ,  0.261]
                                   [0.080 ,  0.320]
                                   [0.110 ,  0.350]
                                   [0.146 ,  0.380]
                                   [0.239 ,  0.443]
                                   [0.560 ,  0.574]
                                   [0.828 ,  0.642]
                                   [1.154 ,  0.711]
                                   [1.535 ,  0.782]
                                   [1.746 ,  0.818]
                                   [1.924 ,  0.847]
                                   [1.984 ,  0.855]
                                   [3.005 ,  0.940]
                                   [4.549 ,  1.032]
                                   [12.016, 1.330]
```

```
02493>                                [   -1  ,  -1  ]  (max twenty pts)
02494>                          IDovf=[4], NHYDovf=["P#2Over"]
02495> *#-----------------|-------------------------------------------------------------|
02496> ADD HYD             IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
02497> *#-----------------|-------------------------------------------------------------|
02498> DIVERT HYD          IDin=[5], NIDout=[2]max five,
02499>                     outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
02500>                     flow distribution table: (modify as necessary)
02501>                     Note: all flows are in (cms)
02502>                          QIDi +  QIDii   =  QTOTAL
02503>                        [   0  +    0     =    0   ]
02504>                        [ 0.000 +   0.008  =  0.008 ]
02505>                        [ 0.000 +   0.022  =  0.026 ]
02506>                        [ 0.000 +   0.033  =  0.033 ]
02507>                        [ 0.000 +   0.044  =  0.044 ]
02508>                        [ 0.019 +   0.062  =  0.080 ]
02509>                        [ 0.053 +   0.093  =  0.146 ]
02510>                        [ 0.097 +   0.143  =  0.239 ]
02511>                        [ 0.208 +   0.352  =  0.560 ]
02512>                        [ 0.345 +   0.809  =  1.1554 ]
02513>                        [ 0.461 +   1.285  = 1.746 ]
02514>                        [ 0.503 +   1.486  = 1.988 ]
02515>                        [ 0.589 +   2.584  = 3.173 ]
02516>                        [ 0.679 +   4.312  =  4.991 ]
02517>                        [ 0.975 +  12.716 = 13.692] end
02518> *#-----------------|-------------------------------------------------------------|
02519> *#                 |                                                             |
02520> *#                 |                    Watercourse Flows- ZONE 2                |
02521> *#                 |                                                             |
02522> *#-----------------|-------------------------------------------------------------|
02523> *#-----------------|---------------------------------------------------------------|
02524> *#-----------------|------------------- East Watercourse Area -------------------|
02525> *#-----------------|------------------     Foley Drain     ------------------------|
02526> *#-----------------|---------------------------------------------------------------|
02527> *%-----------------|---------------------------------------------------------------|
02528> *%-----------------|---------------------------------------------------------------|
02529> CALIB NASHYD        ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
02530>                     DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
02531>                     N=[3], TP=[1.87]hrs,
02532>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02533> *#-----------------|-------------------------------------------------------------|
02534> CALIB NASHYD        ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
02535>                     DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
02536>                     N=[3], TP=[0.36]hrs,
02537>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02538> *#-----------------|-------------------------------------------------------------|
02539> ADD HYD             IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
02540> *#-----------------|-------------------------------------------------------------|
02541> ROUTE CHANNEL       IDout=[5], NHYD=["SiteLag"], IDin=[8],
02542>                     RDT=[1](min),
02543>                     CHLGTH=[550](m),  CHSLOPE=[0.65](%),
02544>                                        FPSLOPE=[0.65](%),
02545>                     SECNUM=[1],       NSEG=[3]
02546>                     ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
02547>                     ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
02548>                                                    [196.60, 514.00]
02549>                                                    [215.60, 513.59]
02550>                                                    [216.55, 513.00]
02551>                                                    [217.20, 512.50]
02552>                                                    [217.45, 512.46]
02553>                                                    [217.80, 512.50]
02554>                                                    [218.95, 513.00]
02555>                                                    [221.30, 513.50]
02556>                                                    [221.70, 513.71]
02557>                                                    [230.40, 513.71]
02558>                                                    [243.80, 514.00]
02559>                                                    [249.40, 514.12]
02560>                                                    [259.50, 514.28]
02561>                                                    [266.50, 514.50]
02562> *#-----------------|-------------------------------------------------------------|
02563>
02564> *#-----------------|-------------------------------------------------------------|
02565> *#                 |                                                             |
02566> *#                 |                 Controlled Runoff From ZONE 3               |
02567> *#                 |                                                             |
02568> *#-----------------|-------------------------------------------------------------|
02569> *#-----------------|-------------------------------------------------------------|
02570> CALIB STANDHYD     ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
02571>                     XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
02572>                     SCS curve number CN=[74],
02573>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
02574>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
02575>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02576>                                           LGI=[259](m), MNI=[0.013], SCI=[0](min),
02577>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02578> *#-----------------|-------------------------------------------------------------|
02579> CALIB STANDHYD     ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
02580>                     XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
02581>                     SCS curve number CN=[74],
02582>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
02583>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
02584>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02585>                                           LGI=[90](m), MNI=[0.013], SCI=[0](min),
02586>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02587> *#-----------------|-------------------------------------------------------------|
02588> ADD HYD             IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
02589> *#-----------------|-------------------------------------------------------------|
02590> *#-----------------|---------------------------------------------------------------|
02591> *#-----------------|------------------- SWM Facility #3 -----------------------|
02592> *#-----------------|---------------------------------------------------------------|
02593> ROUTE RESERVOIR    IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
02594>                     RDT=[1](min),
02595>                          TABLE of ( OUTFLOW-STORAGE ) values
02596>                                          (cms) - (ha-m)
02597>                                     [   0.0 , 0.0  ]
02598>                                     [ 0.007 , 0.036]
02599>                                     [ 0.013 , 0.075]
02600>                                     [ 0.016 , 0.107]
02601>                                     [ 0.017 , 0.115]
02602>                                     [ 0.023 , 0.202]
02603>                                     [ 0.027 , 0.272]
02604>                                     [ 0.030 , 0.348]
02605>                                     [ 0.035 , 0.517]
02606>                                     [ 0.040 , 0.709]
02607>                                     [ 0.045 , 0.922]
02608>                                     [ 1.247 , 1.155]
02609>                                     [   -1  ,  -1  ]  (max twenty pts)
02610>                          IDovf=[8], NHYDovf=["P#2Over"]
02611> *#-----------------|-------------------------------------------------------------|
02612> ADD HYD             IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
02613> *#-----------------|-------------------------------------------------------------|
02614> CALIB NASHYD        ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
02615>                     DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
02616>                     N=[3], TP=[0.64]hrs,
02617>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02618> *#-----------------|-------------------------------------------------------------|
02619> ADD HYD             IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
02620> *#-----------------|-------------------------------------------------------------|
02621> ADD HYD             IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
02622> *#-----------------|-------------------------------------------------------------|
02623>
02624>
02625> *#-----------------------------------------------------------------------------|
02626> *#                    2222   Y   Y  RRRR       SSSS   CCCC   SSSS
02627> *#                      2    Y Y   R   R     S      C       S
02628> *#                    2222     Y    RRRR       SSSS  C        SSSS
02629> *#                    2        Y    R  R          S C           S
02630> *#                    2222     Y    R   R     SSSS   CCCC   SSSS
02631> *#-----------------------------------------------------------------------------|
02632> *#-----------------------------------------------------------------------------|
02633> *#-----------------|---------- 2 YEAR ----------------------------------------|
02634> *#-----------------|-------------------------------------------------------------|
02635> MASS STORM          FTOTAL=[55.5](mm), CSDT=[15](min),
02636>                     CURVE_FILENAME=["SCS24H.MST"]
02637> *#-----------------|-------------------------------------------------------------|
02638> *#-----------------|-------------------------------------------------------------|
02639> *#                 |                                                             |
02640> *#                 |                 Controlled Runoff From ZONE 1               |
02641> *#                 |                                                             |
02642> *#-----------------|-------------------------------------------------------------|
02643> *#-----------------|-------------------------------------------------------------|
02644> *%-----------------|-------------------------------------------------------------|
02645> *#-----------------|---------------- SWM Facility #1 Area -----------------------|
02646> *#-----------------|------------------ West Site Area -------------------------|
02647> *#-----------------|-------------------------------------------------------------|
02648> CALIB NASHYD        ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
02649>                     DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
02650>                     N=[3], TP=[0.26]hrs,
02651>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02652> *#-----------------|-------------------------------------------------------------|
02653> CALIB STANDHYD     ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
02654>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
02655>                     SCS curve number CN=[74],
02656>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
02657>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
02658>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02659>                                           LGI=[287](m), MNI=[0.013], SCI=[0](min),
02660>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02661> *#-----------------|-------------------------------------------------------------|
02662> CALIB STANDHYD     ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
02663>                     XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
02664>                     SCS curve number CN=[74],
02665>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
02666>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
02667>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02668>                                           LGI=[81](m), MNI=[0.013], SCI=[0](min),
02669>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02670> *#-----------------|-------------------------------------------------------------|
02671> CALIB STANDHYD     ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
02672>                     XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
02673>                     SCS curve number CN=[74],
02674>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
02675>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
02676>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02677>                                           LGI=[113](m), MNI=[0.013], SCI=[0](min),
02678>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02679> *#-----------------|-------------------------------------------------------------|
02680> ADD HYD             IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
02681> *#-----------------|-------------------------------------------------------------|
02682> *#-----------------|---------------- SWM Facility #1 ----------------------------|
02683> *#-----------------|---------------------------------------------------------------|
02684> ROUTE RESERVOIR    IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
02685>                     RDT=[1](min),
02686>                          TABLE of ( OUTFLOW-STORAGE ) values
02687>                                          (cms) - (ha-m)
02688>                                     [   0.0 , 0.0   ]
02689>                                     [ 0.005 , 0.034 ]
02690>                                     [ 0.011 , 0.114 ]
02691>                                     [ 0.013 , 0.164 ]
02692>                                     [ 0.017 , 0.297 ]
02693>                                     [ 0.018 , 0.380 ]
02694>                                     [ 0.020 , 0.523 ]
02695>                                     [ 0.022 , 0.734 ]
02696>                                     [ 0.067 , 0.848 ]
02697>                                     [ 0.252 , 1.092 ]
02698>                                     [   -1  ,  -1  ]  (max twenty pts)
02699>                          IDovf=[2], NHYDovf=["P#1Over"]
02700> *#-----------------|-------------------------------------------------------------|
02701> *#-----------------|-------------------------------------------------------------|
02702> *#                 |                                                             |
02703> *#                 |                    Watercourse Flows- ZONE 1                |
02704> *#                 |                                                             |
02705> *#-----------------|-------------------------------------------------------------|
02706> *#-----------------|-------------------------------------------------------------|
02707> *#-----------------|-------------- West Watercourse Area -----------------------|
02708> *#-----------------|------------- Small Unnmaed Tributary ----------------------|
02709> *#-----------------|-------------------------------------------------------------|
02710> *%-----------------|-------------------------------------------------------------|
02711> CALIB NASHYD        ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
02712>                     DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
02713>                     N=[3], TP=[0.57]hrs,
02714>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02715> *#-----------------|-------------------------------------------------------------|
02716> ROUTE CHANNEL       IDout=[4], NHYD=["SiteLag"], IDin=[3],
02717>                     RDT=[1](min),
02718>                     CHLGTH=[425](m),  CHSLOPE=[0.96](%),
02719>                                        FPSLOPE=[0.96](%),
02720>                     SECNUM=[1],       NSEG=[3]
02721>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
02722>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
02723>                                                    [ 48.0, 514.81]
02724>                                                    [ 60.0, 514.69]
02725>                                                    [ 68.5, 514.54]
02726>                                                    [ 75.5, 514.23]
02727>                                                    [ 76.0, 514.06]
02728>                                                    [ 77.5, 514.06]
02729>                                                    [ 78.5, 514.36]
02730>                                                    [ 79.5, 514.39]
02731>                                                    [ 92.5, 514.49]
02732>                                                    [103.5, 514.51]
02733>                                                    [118.5, 514.67]
02734>                                                    [130.5, 514.50]
02735>                                                    [151.0, 515.00]
02736> *%-----------------|-------------------------------------------------------------|
02737> CALIB NASHYD        ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
02738>                     DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
02739>                     N=[3], TP=[0.40]hrs,
02740>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02741> *#-----------------|-------------------------------------------------------------|
02742> *#-----------------|-------- Total Flow at South Property Line -----------------|
02743> *#-----------------|-------------------------------------------------------------|
02744> ADD HYD             IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
02745> *#-----------------|-------------------------------------------------------------|
02746> ROUTE CHANNEL       IDout=[1], NHYD=["DS Lag"], IDin=[3],
02747>                     RDT=[1](min),
02748>                     CHLGTH=[150](m),  CHSLOPE=[0.96](%),
02749>                                        FPSLOPE=[0.96](%),
02750>                     SECNUM=[1],       NSEG=[3]
02751>                     ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
02752>                     ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
02753>                                                    [ 48.0, 514.81]
02754>                                                    [ 60.0, 514.69]
02755>                                                    [ 68.5, 514.54]
02756>                                                    [ 75.5, 514.23]
02757>                                                    [ 76.0, 514.06]
02758>                                                    [ 77.5, 514.06]
02759>                                                    [ 78.5, 514.36]
02760>                                                    [ 79.5, 514.39]
02761>                                                    [ 92.5, 514.49]
02762>                                                    [103.5, 514.51]
02763>                                                    [118.5, 514.67]
02764>                                                    [130.5, 514.50]
02765>                                                    [151.0, 515.00]
02766> *#-----------------|-------------------------------------------------------------|
02767> CALIB NASHYD        ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
02768>                     DWF=[0](cms),  CN/C=[60], IA=[10](mm),
02769>                     N=[3], TP=[0.47]hrs,
02770>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02771> *#-----------------|-------------------------------------------------------------|
02772>
02773>
02774>
02775> *#-----------------|-------------------------------------------------------------|
02776> *#                 |                                                             |
02777> *#                 |                 Controlled Runoff From ZONE 2               |
02778> *#                 |                                                             |
02779> *#-----------------|-------------------------------------------------------------|
02780>
02781> *#-----------------|-------------------------------------------------------------|
02782> CALIB STANDHYD     ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
02783>                     XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
02784>                     SCS curve number CN=[74],
02785>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
02786>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
02787>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02788>                                           LGI=[313](m), MNI=[0.013], SCI=[0](min),
02789>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02790> *#-----------------|-------------------------------------------------------------|
02791> CALIB STANDHYD     ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
02792>                     XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
02793>                     SCS curve number CN=[74],
02794>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
02795>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
02796>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02797>                                           LGI=[37](m), MNI=[0.013], SCI=[0](min),
02798>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02799> *#-----------------|-------------------------------------------------------------|
02800> DIVERT HYD          IDin=[4], NIDout=[2]max five,
02801>                     outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
02802>                     flow distribution table: (modify as necessary)
02803>                     Note: all flows are in (cms)
02804>                          QIDi +  QIDii   =  QTOTAL
02805>                        [ 0.000  +  0.000   =  0.000]
02806>                        [ 0.035 +   0.000   =  0.035]
02807>                        [ 0.035 +  10.000  =  10.035]end
02808> *#-----------------|-------------------------------------------------------------|
02809> CALIB STANDHYD     ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
02810>                     XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
02811>                     SCS curve number CN=[74],
02812>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
02813>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
02814>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02815>                                           LGI=[47](m), MNI=[0.013], SCI=[0](min),
02816>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02817> *#-----------------|-------------------------------------------------------------|
02818> CALIB STANDHYD     ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
02819>                     XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
02820>                     SCS curve number CN=[74],
02821>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
02822>                                           LGP=[40](m), MNP=[0.25], SCP=[0](min),
02823>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02824>                                           LGI=[86](m), MNI=[0.013], SCI=[0](min),
02825>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02826> *#-----------------|-------------------------------------------------------------|
02827> *#-----------------|-------------------------------------------------------------|
02828> ADD HYD             IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
02829> *#-----------------|-------------------------------------------------------------|
02830> *#-----------------|---------------- SWM Facility #2 ----------------------------|
02831> *#-----------------|-------------------------------------------------------------|
02832> ROUTE RESERVOIR    IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
02833>                     RDT=[1](min),
02834>                          TABLE of ( OUTFLOW-STORAGE ) values
02835>                                          (cms) - (ha-m)
02836>                                     [  0.0 , 0.0  ]
02837>                                     [0.008 , 0.048]
02838>                                     [0.026 , 0.123]
02839>                                     [0.036 ,  0.204]
02840>                                     [0.044 ,  0.261]
02841>                                     [0.080 ,  0.320]
02842>                                     [0.110 ,  0.350]
02843>                                     [0.146 ,  0.380]
02844>                                     [0.239 ,  0.443]
02845>                                     [0.560 ,  0.574]
02846>                                     [0.828 ,  0.642]
02847>                                     [1.154 ,  0.711]
02848>                                     [1.535 ,  0.782]
```

```
                                    [1.746 ,  0.818]
                                    [1.924 ,  0.847]
                                    [1.984 ,  0.855]
                                    [3.005 ,  0.940]
                                    [4.549 ,  1.032]
                                    [12.016, 1.330]
                                    [   -1 ,   -1 ]  (max twenty pts)
                          IDovf=[4], NHYDovf=["P#2Over"]
*------------------|-------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
*------------------|-------------------------------------------------------------|
DIVERT HYD         IDin=[5], NIDout=[2]max five,
                   outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
                   flow distribution table: (modify as necessary)
                   Note: all flows are in (cms)
                          QIDi +  QIDii   =  QTOTAL
                       [   0  +    0     =    0   ]
                       [ 0.000 +   0.008  =  0.008 ]
                       [ 0.000 +   0.022  =  0.026 ]
                       [ 0.000 +   0.033  =  0.033 ]
                       [ 0.000 +   0.044  =  0.044 ]
                       [ 0.019 +   0.062  =  0.080 ]
                       [ 0.053 +   0.093  =  0.146 ]
                       [ 0.097 +   0.143  =  0.239 ]
                       [ 0.208 +   0.352  =  0.560 ]
                       [ 0.345 +   0.809  =  1.1554 ]
                       [ 0.461 +   1.285  = 1.746 ]
                       [ 0.503 +   1.486  = 1.988 ]
                       [ 0.589 +   2.584  = 3.173 ]
                       [ 0.679 +   4.312  =  4.991 ]
                       [ 0.975 +   12.716 = 13.692] end
*------------------|-------------------------------------------------------------|
*                  |                                                             |
*                  |                    Watercourse Flows- ZONE 2                |
*                  |                                                             |
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*------------------|-------------- East Watercourse Area ------------------------|
*------------------|---------------     Foley Drain        ------------------------|
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
                   DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
                   N=[3], TP=[1.87]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
                   DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
                   N=[3], TP=[0.36]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|-------------------------------------------------------------|
ADD HYD            IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
*------------------|-------------------------------------------------------------|
ROUTE CHANNEL      IDout=[5], NHYD=["SiteLag"], IDin=[8],
                   RDT=[1](min),
                   CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                     FPSLOPE=[0.65](%),
                   SECNUM=[1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                  [196.60, 514.00]
                                                  [215.60, 513.59]
                                                  [216.55, 513.00]
                                                  [217.20, 512.50]
                                                  [217.45, 512.46]
                                                  [217.80, 512.50]
                                                  [218.95, 513.00]
                                                  [221.30, 513.50]
                                                  [221.70, 513.71]
                                                  [230.40, 513.71]
                                                  [243.80, 514.00]
                                                  [249.40, 514.12]
                                                  [259.50, 514.28]
                                                  [266.50, 514.50]
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*                  |                                                             |
*                  |                  Controlled Runoff From ZONE 3              |
*                  |                                                             |
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
                   XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[259](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
                   XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[90](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|-------------------------------------------------------------|
ADD HYD            IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*------------------|---------------- SWM Facility #3 ---------------------------|
*------------------|-------------------------------------------------------------|
ROUTE RESERVOIR    IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
                   RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                          (cms) - (ha-m)
                                   [   0.0 , 0.0  ]
                                   [ 0.007 , 0.036]
                                   [ 0.013 , 0.075]
                                   [ 0.016 , 0.107]
                                   [ 0.017 , 0.115]
                                   [ 0.023 , 0.202]
                                   [ 0.027 , 0.272]
                                   [ 0.030 , 0.348]
                                   [ 0.035 , 0.517]
                                   [ 0.040 , 0.709]
                                   [ 0.045 , 0.922]
                                   [ 1.247 , 1.155]
                                   [   -1  ,   -1  ]  (max twenty pts)
                          IDovf=[8], NHYDovf=["P#2Over"]
*------------------|-------------------------------------------------------------|
ADD HYD            IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
*------------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                   DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
                   N=[3], TP=[0.64]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|-------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
*------------------|-------------------------------------------------------------|
ADD HYD            IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
*------------------|-------------------------------------------------------------|
*
*
*------------------------------------------------------------------------------|
*                    5555   Y   Y  RRRR      SSSS   CCCC   SSSS
*                    5       Y Y  R   R     S      C       S
*                    5555    Y    RRRR       SSSS  C        SSSS
*                       5    Y    R  R           S C           S
*                    5555    Y    R   R      SSSS   CCCC   SSSS
*------------------------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------ 5 YEAR -------------------------------------|
*------------------|------------------------------------------------------------|
MASS STORM         PTOTAL=[75.1](mm), CSDT=[15](min),
                   CURVE_FILENAME=["SCS24H.MST"]
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*
*
*                  |                                                             |
*                  |                  Controlled Runoff From ZONE 1              |
*                  |                                                             |
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*------------------|--------------- SWM Facility #1 Area ----------------------|
*------------------|------------------ West Site Area -------------------------|
*------------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
                   DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
                   N=[3], TP=[0.26]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
                   XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[287](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
                   XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[81](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
                   XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[113](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|-------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
*------------------|-------------------------------------------------------------|
*------------------|---------------- SWM Facility #1 ---------------------------|
*------------------|-------------------------------------------------------------|
ROUTE RESERVOIR    IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
                   RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                          (cms) - (ha-m)
                                   [   0.0 , 0.0  ]
                                   [ 0.005 , 0.034 ]
                                   [ 0.011 , 0.114 ]
                                   [ 0.013 , 0.164 ]
                                   [ 0.017 , 0.297 ]
                                   [ 0.018 , 0.380 ]
                                   [ 0.020 , 0.523 ]
                                   [ 0.022 , 0.734 ]
                                   [ 0.067 , 0.848 ]
                                   [ 0.252 , 1.092 ]
                                   [   -1  ,   -1  ]  (max twenty pts)
                          IDovf=[2], NHYDovf=["P#1Over"]
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*
*
*                  |                                                             |
*                  |                    Watercourse Flows- ZONE 1                |
*                  |                                                             |
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*------------------|-------------- West Watercourse Area ------------------------|
*------------------|------------------ Small Unnmaed Tributary ------------------|
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
                   DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
                   N=[3], TP=[0.57]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|-------------------------------------------------------------|
ROUTE CHANNEL      IDout=[4], NHYD=["SiteLag"], IDin=[3],
                   RDT=[1](min),
                   CHLGTH=[425](m),  CHSLOPE=[0.96](%),
                                     FPSLOPE=[0.96](%),
                   SECNUM=[1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                  [ 48.0, 514.81]
                                                  [ 60.0, 514.69]
                                                  [ 68.5, 514.54]
                                                  [ 75.5, 514.23]
                                                  [ 76.0, 514.06]
                                                  [ 77.5, 514.06]
                                                  [ 78.5, 514.36]
                                                  [ 79.5, 514.39]
                                                  [ 92.5, 514.49]
                                                  [103.5, 514.51]
                                                  [118.5, 514.67]
                                                  [130.5, 514.50]
                                                  [151.0, 515.00]
*------------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
                   DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
                   N=[3], TP=[0.40]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|-------------------------------------------------------------|
*------------------|-------- Total Flow at South Property Line ----------------|
*------------------|-------------------------------------------------------------|
ADD HYD            IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
*------------------|-------------------------------------------------------------|
ROUTE CHANNEL      IDout=[1], NHYD=["DS Lag"], IDin=[3],
                   RDT=[1](min),
                   CHLGTH=[150](m),  CHSLOPE=[0.96](%),
                                     FPSLOPE=[0.96](%),
                   SECNUM=[1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                  [ 48.0, 514.81]
                                                  [ 60.0, 514.69]
                                                  [ 68.5, 514.54]
                                                  [ 75.5, 514.23]
                                                  [ 76.0, 514.06]
                                                  [ 77.5, 514.06]
                                                  [ 78.5, 514.36]
                                                  [ 79.5, 514.39]
                                                  [ 92.5, 514.49]
                                                  [103.5, 514.51]
                                                  [118.5, 514.67]
                                                  [130.5, 514.50]
                                                  [151.0, 515.00]
*------------------|-------------------------------------------------------------|
CALIB NASHYD       ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
                   DWF=[0](cms),  CN/C=[60], IA=[10](mm),
                   N=[3], TP=[0.47]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|-------------------------------------------------------------|
*
*
*
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
*
*                  |                  Controlled Runoff From ZONE 2              |
*
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[1], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
                   XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[313](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
                   XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[37](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|-------------------------------------------------------------|
DIVERT HYD         IDin=[4], NIDout=[2]max five,
                   outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
                   flow distribution table: (modify as necessary)
                   Note: all flows are in (cms)
                      QIDi +  QIDii   =  QTOTAL
                      [ 0.000  +  0.000   =  0.000]
                      [ 0.035 +   0.000   =  0.035]
                      [ 0.035 +   10.000  =  10.035]end
*------------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
                   XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[47](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|-------------------------------------------------------------|
CALIB STANDHYD     ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
                   XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                        LGI=[86](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|-------------------------------------------------------------|
*------------------|-------------------------------------------------------------|
ADD HYD            IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
*------------------|-------------------------------------------------------------|
*------------------|---------------- SWM Facility #2 ---------------------------|
*------------------|-------------------------------------------------------------|
ROUTE RESERVOIR    IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
                   RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                          (cms) - (ha-m)
                                   [  0.0 , 0.0  ]
                                   [0.008 , 0.048]
                                   [0.026 , 0.123]
                                   [0.036 ,  0.204]
                                   [0.044 ,  0.261]
                                   [0.080 ,  0.320]
                                   [0.110 ,  0.350]
```

```
                                        [0.146 ,  0.380]
                                        [0.239 ,  0.443]
                                        [0.560 ,  0.574]
                                        [0.828 ,  0.642]
                                        [1.154 ,  0.711]
                                        [1.535 ,  0.782]
                                        [1.746 ,  0.818]
                                        [1.924 ,  0.847]
                                        [1.984 ,  0.855]
                                        [3.005 ,  0.940]
                                        [4.549 ,  1.032]
                                        [12.016, 1.330]
                                        [   -1  ,  -1  ]  (max twenty pts)
                              IDovf=[4], NHYDovf=["P#2Over"]
*------------------|------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
*------------------|------------------------------------------------------------|
DIVERT HYD          IDin=[5], NIDout=[2]max five,
                    outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
                    flow distribution table: (modify as necessary)
                    Note: all flows are in (cms)
                        QIDi +  QIDii   =  QTOTAL
                    [   0  +   0     =   0   ]
                    [ 0.000 +   0.008  =  0.008 ]
                    [ 0.000 +   0.022  =  0.026 ]
                    [ 0.000 +   0.033  =  0.033 ]
                    [ 0.000 +   0.044  =  0.044 ]
                    [ 0.019 +   0.062  =  0.080 ]
                    [ 0.053 +   0.093  =  0.146 ]
                    [ 0.097 +   0.143  =  0.239 ]
                    [ 0.208 +   0.352  =  0.560 ]
                    [ 0.345 +   0.809  =  1.1554 ]
                    [ 0.461 +   1.285  = 1.746 ]
                    [ 0.503 +   1.486  = 1.988 ]
                    [ 0.589 +   2.584  = 3.173 ]
                    [ 0.679 +   4.312  =  4.991 ]
                    [ 0.975 +   12.716 = 13.692] end
*------------------|------------------------------------------------------------|
*                   |                                                            |
*                   |                     Watercourse Flows- ZONE 2              |
*                   |                                                            |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- East Watercourse Area ----------------------|
*------------------|---------------          Foley Drain          ---------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
                    DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
                    N=[3], TP=[1.87]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
                    DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
                    N=[3], TP=[0.36]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
*------------------|------------------------------------------------------------|
ROUTE CHANNEL       IDout=[5], NHYD=["SiteLag"], IDin=[8],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                      FPSLOPE=[0.65](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                   [196.60, 514.00]
                                                   [215.60, 513.59]
                                                   [216.55, 513.00]
                                                   [217.20, 512.50]
                                                   [217.45, 512.46]
                                                   [217.80, 512.50]
                                                   [218.95, 513.00]
                                                   [221.30, 513.50]
                                                   [221.70, 513.71]
                                                   [230.40, 513.71]
                                                   [243.80, 514.00]
                                                   [249.40, 514.12]
                                                   [259.50, 514.28]
                                                   [266.50, 514.50]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                   |                  Controlled Runoff From ZONE 3             |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
                    XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[259](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
                    XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[90](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #3 -----------------------------|
*------------------|------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[7],    NHYD=["P#3Out"],  IDin=[9],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                     (cms) - (ha-m)
                                  [   0.0 , 0.0  ]
                                  [ 0.007 , 0.036]
                                  [ 0.013 , 0.075]
                                  [ 0.016 , 0.107]
                                  [ 0.017 , 0.115]
                                  [ 0.023 , 0.202]
                                  [ 0.027 , 0.272]
                                  [ 0.030 , 0.348]
                                  [ 0.035 , 0.517]
                                  [ 0.040 , 0.709]
                                  [ 0.045 , 0.922]
                                  [ 1.247 , 1.155]
                                  [   -1  ,  -1  ]  (max twenty pts)
                              IDovf=[8], NHYDovf=["P#2Over"]
*------------------|------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
*------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                    DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
                    N=[3], TP=[0.64]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
*------------------|------------------------------------------------------------|
ADD HYD             IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                 11     000   Y   Y  RRRR       SSSS   CCCC   SSSS
*               1 1    0   0   Y Y   R   R     S      C      S
*                 1    0   0    Y    RRRR        SSSS  C        SSSS
*                 1    0   0    Y    R  R           S C           S
*               11111   000     Y    R   R      SSSS   CCCC   SSSS
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|--------- 10 YEAR ----------------------------------------|
*------------------|------------------------------------------------------------|
MASS STORM          PTOTAL=[88.1](mm), CSDT=[15](min),
                    CURVE_FILENAME=["SCS24H.MST"]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                   |                  Controlled Runoff From ZONE 1             |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #1 Area -------------------------|
*------------------|----------------- West Site Area -----------------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
                    DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
                    N=[3], TP=[0.26]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[287](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[81](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
                    XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[113](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #1 -----------------------------|
*------------------|------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                     (cms) - (ha-m)
                                  [   0.0 , 0.0  ]
                                  [ 0.005 , 0.034 ]
                                  [ 0.011 , 0.114 ]
                                  [ 0.013 , 0.164 ]
                                  [ 0.017 , 0.297 ]
                                  [ 0.018 , 0.380 ]
                                  [ 0.020 , 0.523 ]
                                  [ 0.022 , 0.734 ]
                                  [ 0.067 , 0.848 ]
                                  [ 0.252 , 1.092 ]
                                  [   -1  ,  -1  ]  (max twenty pts)
                              IDovf=[2], NHYDovf=["P#1Over"]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                   |                     Watercourse Flows- ZONE 1              |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- West Watercourse Area -----------------------|
*------------------|------------------- Small Unnmaed Tributary ------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
                    DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
                    N=[3], TP=[0.57]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
ROUTE CHANNEL       IDout=[4], NHYD=["SiteLag"], IDin=[3],
                    RDT=[1](min),
                    CHLGTH=[425](m),  CHSLOPE=[0.96](%),
                                      FPSLOPE=[0.96](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                   [ 48.0, 514.81]
                                                   [ 60.0, 514.69]
                                                   [ 68.5, 514.54]
                                                   [ 75.5, 514.23]
                                                   [ 76.0, 514.06]
                                                   [ 77.5, 514.06]
                                                   [ 78.5, 514.36]
                                                   [ 79.5, 514.39]
                                                   [ 92.5, 514.49]
                                                   [103.5, 514.51]
                                                   [118.5, 514.67]
                                                   [130.5, 514.50]
                                                   [151.0, 515.00]
*------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
                    DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
                    N=[3], TP=[0.40]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
*------------------|-------- Total Flow at South Property Line ----------------|
*------------------|------------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
*------------------|------------------------------------------------------------|
ROUTE CHANNEL       IDout=[1], NHYD=["DS Lag"], IDin=[3],
                    RDT=[1](min),
                    CHLGTH=[150](m),  CHSLOPE=[0.96](%),
                                      FPSLOPE=[0.96](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                   [ 48.0, 514.81]
                                                   [ 60.0, 514.69]
                                                   [ 68.5, 514.54]
                                                   [ 75.5, 514.23]
                                                   [ 76.0, 514.06]
                                                   [ 77.5, 514.06]
                                                   [ 78.5, 514.36]
                                                   [ 79.5, 514.39]
                                                   [ 92.5, 514.49]
                                                   [103.5, 514.51]
                                                   [118.5, 514.67]
                                                   [130.5, 514.50]
                                                   [151.0, 515.00]
*------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
                    DWF=[0](cms),  CN/C=[60], IA=[10](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                   |                  Controlled Runoff From ZONE 2             |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
                    XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[313](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
                    XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[37](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
                    XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[47](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
                    XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[86](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #2 -----------------------------|
*------------------|------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                     (cms) - (ha-m)
                                  [   0.0 , 0.0  ]
```

```
                                        [0.008 , 0.048]
                                        [0.026 , 0.123]
                                        [0.036 ,  0.204]
                                        [0.044 ,  0.261]
                                        [0.080 ,  0.320]
                                        [0.110 ,  0.350]
                                        [0.146 ,  0.380]
                                        [0.239 ,  0.443]
                                        [0.560 ,  0.574]
                                        [0.828 ,  0.642]
                                        [1.154 ,  0.711]
                                        [1.535 ,  0.782]
                                        [1.746 ,  0.818]
                                        [1.924 ,  0.847]
                                        [1.984 ,  0.855]
                                        [3.005 ,  0.940]
                                        [4.549 ,  1.032]
                                        [12.016, 1.330]
                                        [   -1  ,  -1  ]  (max twenty pts)
                                 IDovf=[4], NHYDovf=["P#2Over"]
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
*------------------|------------------------------------------------------------|
DIVERT HYD         IDin=[5], NIDout=[2]max five,
                   outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
                   flow distribution table: (modify as necessary)
                   Note: all flows are in (cms)
                        QIDi +  QIDii   =  QTOTAL
                        [   0 +    0     =    0   ]
                        [ 0.000 +   0.008  =  0.008 ]
                        [ 0.000 +   0.022  =  0.026 ]
                        [ 0.000 +   0.033  =  0.033 ]
                        [ 0.000 +   0.044  =  0.044 ]
                        [ 0.019 +   0.062  =  0.080 ]
                        [ 0.053 +   0.093  =  0.146 ]
                        [ 0.097 +   0.143  =  0.239 ]
                        [ 0.208 +   0.352  =  0.560 ]
                        [ 0.345 +   0.809  =  1.1554 ]
                        [ 0.461 +   1.285  = 1.746 ]
                        [ 0.503 +   1.486  = 1.988 ]
                        [ 0.589 +   2.584  = 3.173 ]
                        [ 0.679 +   4.312  =  4.991 ]
                        [ 0.975 +   12.716 = 13.692] end
*------------------|------------------------------------------------------------|
*                  |
*                  |                    Watercourse Flows- ZONE 2
*                  |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
                   DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
                   N=[3], TP=[1.87]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
                   DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
                   N=[3], TP=[0.36]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
*------------------|------------------------------------------------------------|
ROUTE CHANNEL      IDout=[5], NHYD=["SiteLag"], IDin=[8],
                   RDT=[1](min),
                   CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                     FPSLOPE=[0.65](%),
                   SECNUM=[1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                  [196.60, 514.00]
                                                  [215.60, 513.59]
                                                  [216.55, 513.00]
                                                  [217.20, 512.50]
                                                  [217.45, 512.46]
                                                  [217.80, 512.50]
                                                  [218.95, 513.00]
                                                  [221.30, 513.50]
                                                  [221.70, 513.71]
                                                  [230.40, 513.71]
                                                  [243.80, 514.00]
                                                  [249.40, 514.12]
                                                  [259.50, 514.28]
                                                  [266.50, 514.50]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                  |
*                  |                 Controlled Runoff From ZONE 3
*                  |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[7], NHYD=["FB2"], DT=[1]min, AREA=[10.1](ha),
                   XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[259](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
                   XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[90](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #3 ---------------------------|
*------------------|------------------------------------------------------------|
ROUTE RESERVOIR    IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
                   RDT=[1](min),
                        TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                        [   0.0 , 0.0  ]
                                        [ 0.007 , 0.036]
                                        [ 0.013 , 0.075]
                                        [ 0.016 , 0.107]
                                        [ 0.017 , 0.115]
                                        [ 0.023 , 0.202]
                                        [ 0.027 , 0.272]
                                        [ 0.030 , 0.348]
                                        [ 0.035 , 0.517]
                                        [ 0.040 , 0.709]
                                        [ 0.045 , 0.922]
                                        [ 1.247 , 1.155]
                                        [   -1  ,  -1  ]  (max twenty pts)
                                 IDovf=[8], NHYDovf=["P#2Over"]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                   DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
                   N=[3], TP=[0.64]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
*------------------|------------------------------------------------------------|
```

```
*                 2222  5555    Y   Y  RRRR       SSSS   CCCC   SSSS
*                   2  5        Y Y   R    R     S      C      S
*                 2222  5555    Y    RRRR         SSSS  C         SSSS
*                 2       5     Y    R  R            S C         S
*                 2222  5555    Y    R   R      SSSS   CCCC   SSSS
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------- 25 YEAR -------------------------------------|
*------------------|------------------------------------------------------------|
MASS STORM         PTOTAL=[104.5](mm), CSDT=[15](min),
                   CURVE_FILENAME=["SCS24H.MST"]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                  |
*                  |                 Controlled Runoff From ZONE 1
*                  |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #1 Area ----------------------|
*------------------|------------------ West Site Area --------------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
                   DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
                   N=[3], TP=[0.26]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
                   XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[287](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
                   XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[81](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
                   XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[113](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
*------------------|------------------------------------------------------------|
*------------------|---------------- SWM Facility #1 ---------------------------|
*------------------|------------------------------------------------------------|
ROUTE RESERVOIR    IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
                   RDT=[1](min),
                        TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                        [   0.0 , 0.0   ]
                                        [ 0.005 , 0.034 ]
                                        [ 0.011 , 0.114 ]
                                        [ 0.013 , 0.164 ]
                                        [ 0.017 , 0.297 ]
                                        [ 0.018 , 0.380 ]
                                        [ 0.020 , 0.523 ]
                                        [ 0.022 , 0.734 ]
                                        [ 0.067 , 0.848 ]
                                        [ 0.252 , 1.092 ]
                                        [   -1  ,  -1  ]  (max twenty pts)
                                 IDovf=[2], NHYDovf=["P#1Over"]
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                  |
*                  |                    Watercourse Flows- ZONE 1
*                  |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|---------------- West Watercourse Area ---------------------|
*------------------|------------- Small Unnmaed Tributary ----------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
                   DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
                   N=[3], TP=[0.57]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
ROUTE CHANNEL      IDout=[4], NHYD=["SiteLag"], IDin=[3],
                   RDT=[1](min),
                   CHLGTH=[425](m),  CHSLOPE=[0.96](%),
                                     FPSLOPE=[0.96](%),
                   SECNUM=[1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                  [ 48.0, 514.81]
                                                  [ 60.0, 514.69]
                                                  [ 68.5, 514.54]
                                                  [ 75.5, 514.23]
                                                  [ 76.0, 514.06]
                                                  [ 77.5, 514.06]
                                                  [ 78.5, 514.36]
                                                  [ 79.5, 514.39]
                                                  [ 92.5, 514.49]
                                                  [103.5, 514.51]
                                                  [118.5, 514.67]
                                                  [130.5, 514.50]
                                                  [151.0, 515.00]
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
                   DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
                   N=[3], TP=[0.40]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
*------------------|-------- Total Flow at South Property Line ----------------|
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
*------------------|------------------------------------------------------------|
ROUTE CHANNEL      IDout=[1], NHYD=["DS Lag"], IDin=[3],
                   RDT=[1](min),
                   CHLGTH=[150](m),  CHSLOPE=[0.96](%),
                                     FPSLOPE=[0.96](%),
                   SECNUM=[1],       NSEG=[3]
                   ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                  [ 48.0, 514.81]
                                                  [ 60.0, 514.69]
                                                  [ 68.5, 514.54]
                                                  [ 75.5, 514.23]
                                                  [ 76.0, 514.06]
                                                  [ 77.5, 514.06]
                                                  [ 78.5, 514.36]
                                                  [ 79.5, 514.39]
                                                  [ 92.5, 514.49]
                                                  [103.5, 514.51]
                                                  [118.5, 514.67]
                                                  [130.5, 514.50]
                                                  [151.0, 515.00]
*------------------|------------------------------------------------------------|
CALIB NASHYD       ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
                   DWF=[0](cms),  CN/C=[60], IA=[10](mm),
                   N=[3], TP=[0.47]hrs,
                   RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*                  |
*                  |                 Controlled Runoff From ZONE 2
*                  |
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
                   XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[313](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
                   XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[37](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
                   XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[37](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
DIVERT HYD         IDin=[4], NIDout=[2]max five,
                   outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
                   flow distribution table: (modify as necessary)
                   Note: all flows are in (cms)
                        QIDi +  QIDii   =  QTOTAL
                        [ 0.000  +  0.000   =  0.000]
                        [ 0.035 +   0.000   =  0.035]
                        [ 0.035 +   10.000  =  10.035]end
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
                   XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[47](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
CALIB STANDHYD     ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
                   XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
                   SCS curve number CN=[74],
                   Pervious   surfaces: IAper=[5]mm), SLPP=[2.0](%),
                                        LGP=[40](m), MNP=[0.25], SCP=[0](min),
                   Impervious surfaces: IAimp=[2]mm), SLPI=[0.5](%),
                                        LGI=[86](m), MNI=[0.013], SCI=[0](min),
                   RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
*------------------|------------------------------------------------------------|
ADD HYD            IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
*------------------|------------------------------------------------------------|
```

```
03917> *#-----------------|---------------- SWM Facility #2 ----------------------|
03918> *#                 |                                                        |
03919> ROUTE RESERVOIR    IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
03920>                    RDT=[1](min),
03921>                          TABLE of ( OUTFLOW-STORAGE ) values
03922>                                                (cms) - (ha-m)
03923>                                          [  0.0 , 0.0  ]
03924>                                          [0.008 , 0.048]
03925>                                          [0.026 , 0.123]
03926>                                          [0.036 ,  0.204]
03927>                                          [0.044 ,  0.261]
03928>                                          [0.080 ,  0.320]
03929>                                          [0.110 ,  0.350]
03930>                                          [0.146 ,  0.380]
03931>                                          [0.239 ,  0.443]
03932>                                          [0.560 ,  0.574]
03933>                                          [0.828 ,  0.642]
03934>                                          [1.154 ,  0.711]
03935>                                          [1.535 ,  0.782]
03936>                                          [1.746 ,  0.818]
03937>                                          [1.924 ,  0.847]
03938>                                          [1.984 ,  0.855]
03939>                                          [3.005 ,  0.940]
03940>                                          [4.549 ,  1.032]
03941>                                          [12.016, 1.330]
03942>                                          [   -1  ,  -1  ]  (max twenty pts)
03943>                          IDovf=[4], NHYDovf=["P#2Over"]
03944> *#-----------------|--------------------------------------------------------|
03945> ADD HYD            IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
03946> *#-----------------|--------------------------------------------------------|
03947> DIVERT HYD         IDin=[5], NIDout=[2]max five,
03948>                    outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
03949>                    flow distribution table: (modify as necessary)
03950>                    Note: all flows are in (cms)
03951>                         QIDi +  QIDii   =  QTOTAL
03952>                         [   0  +   0    =    0   ]
03953>                         [ 0.000 +   0.008  =  0.008 ]
03954>                         [ 0.000 +   0.022  =  0.026 ]
03955>                         [ 0.000 +   0.033  =  0.033 ]
03956>                         [ 0.000 +   0.044  =  0.044 ]
03957>                         [ 0.019 +   0.062  =  0.080 ]
03958>                         [ 0.053 +   0.093  =  0.146 ]
03959>                         [ 0.097 +   0.143  =  0.239 ]
03960>                         [ 0.208 +   0.352  =  0.560 ]
03961>                         [ 0.345 +   0.809  =  1.1554 ]
03962>                         [ 0.461 +   1.285  = 1.746 ]
03963>                         [ 0.503 +   1.486  = 1.988 ]
03964>                         [ 0.589 +   2.584  = 3.173 ]
03965>                         [ 0.679 +   4.312  =  4.991 ]
03966>                         [ 0.975 +   12.716 = 13.692] end
03967> *#-----------------|--------------------------------------------------------|
03968> *#                 |                                                        |
03969> *#                 |                   Watercourse Flows- ZONE 2            |
03970> *#                 |                                                        |
03971> *#-----------------|--------------------------------------------------------|
03972> *#-----------------|--------------------------------------------------------|
03973> *#-----------------|-------------- East Watercourse Area ---------------------|
03974> *#-----------------|--------------        Foley Drain        ---------------|
03975> *#-----------------|--------------------------------------------------------|
03976> *%-----------------|--------------------------------------------------------|
03977> *%-----------------|--------------------------------------------------------|
03978> CALIB NASHYD       ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
03979>                    DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
03980>                    N=[3], TP=[1.87]hrs,
03981>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
03982> *#-----------------|--------------------------------------------------------|
03983> CALIB NASHYD       ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
03984>                    DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
03985>                    N=[3], TP=[0.36]hrs,
03986>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
03987> *#-----------------|--------------------------------------------------------|
03988> ADD HYD            IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
03989> *#-----------------|--------------------------------------------------------|
03990> ROUTE CHANNEL      IDout=[5], NHYD=["SiteLag"], IDin=[8],
03991>                    RDT=[1](min),
03992>                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
03993>                                        FPSLOPE=[0.65](%),
03994>                    SECNUM=[1],       NSEG=[3]
03995>                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
03996>                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
03997>                                                   [196.60, 514.00]
03998>                                                   [215.60, 513.59]
03999>                                                   [216.55, 513.00]
04000>                                                   [217.20, 512.50]
04001>                                                   [217.45, 512.46]
04002>                                                   [217.80, 512.50]
04003>                                                   [218.95, 513.00]
04004>                                                   [221.30, 513.50]
04005>                                                   [221.70, 513.71]
04006>                                                   [230.40, 513.71]
04007>                                                   [243.80, 514.00]
04008>                                                   [249.40, 514.12]
04009>                                                   [259.50, 514.28]
04010>                                                   [266.50, 514.50]
04011> *#-----------------|--------------------------------------------------------|
04012> *#                 |                                                        |
04013> *#-----------------|--------------------------------------------------------|
04014> *#                 |                                                        |
04015> *#                 |                  Controlled Runoff From ZONE 3         |
04016> *#                 |                                                        |
04017> *#-----------------|--------------------------------------------------------|
04018> *#-----------------|--------------------------------------------------------|
04019> CALIB STANDHYD     ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
04020>                    XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
04021>                    SCS curve number CN=[74],
04022>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04023>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
04024>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04025>                                          LGI=[259](m), MNI=[0.013], SCI=[0](min),
04026>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04027> *#-----------------|--------------------------------------------------------|
04028> CALIB STANDHYD     ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
04029>                    XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
04030>                    SCS curve number CN=[74],
04031>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04032>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
04033>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04034>                                          LGI=[90](m), MNI=[0.013], SCI=[0](min),
04035>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04036> *#-----------------|--------------------------------------------------------|
04037> ADD HYD            IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
04038> *#-----------------|--------------------------------------------------------|
04039> *#-----------------|--------------------------------------------------------|
04040> *#-----------------|---------------- SWM Facility #3 ----------------------|
04041> *#-----------------|--------------------------------------------------------|
04042> ROUTE RESERVOIR    IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
04043>                    RDT=[1](min),
04044>                          TABLE of ( OUTFLOW-STORAGE ) values
04045>                                                (cms) - (ha-m)
04046>                                          [  0.0 , 0.0  ]
04047>                                          [ 0.007 , 0.036]
04048>                                          [ 0.013 , 0.075]
04049>                                          [ 0.016 , 0.107]
04050>                                          [ 0.017 , 0.115]
04051>                                          [ 0.023 , 0.202]
04052>                                          [ 0.027 , 0.272]
04053>                                          [ 0.030 , 0.348]
04054>                                          [ 0.035 , 0.517]
04055>                                          [ 0.040 , 0.709]
04056>                                          [ 0.045 , 0.922]
04057>                                          [ 1.247 , 1.155]
04058>                                          [   -1  ,  -1  ]  (max twenty pts)
04059>                          IDovf=[8], NHYDovf=["P#2Over"]
04060> *#-----------------|--------------------------------------------------------|
04061> ADD HYD            IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
04062> *#-----------------|--------------------------------------------------------|
04063> CALIB NASHYD       ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
04064>                    DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
04065>                    N=[3], TP=[0.64]hrs,
04066>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04067> *#-----------------|--------------------------------------------------------|
04068> ADD HYD            IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
04069> *#-----------------|--------------------------------------------------------|
04070> ADD HYD            IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
04071> *#-----------------|--------------------------------------------------------|
04072>
04073>
04074> *#-----------------------------------------------------------------------|
04075> *#              5555   000   Y   Y  RRRR        SSSS   CCCC   SSSS
04076> *#              5      0   0   Y Y  R   R      S      C       S
04077> *#              5555   0   0    Y   RRRR        SSSS  C       SSSS
04078> *#                5  0   0    Y   R  R            S C           S
04079> *#              5555   000    Y   R   R       SSSS   CCCC   SSSS
04080> *#-----------------------------------------------------------------------|
04081> *#-----------------|--------------------------------------------------------|
04082> *#-----------------|----------- 50 YEAR -------------------------------------|
04083> *#-----------------|--------------------------------------------------------|
04084> MASS STORM         PTOTAL=[116.8](mm), CSDT=[15](min),
04085>                    CURVE_FILENAME=["SCS24H.MST"]
04086> *#-----------------|--------------------------------------------------------|
04087> *#-----------------|--------------------------------------------------------|
04088> *#                 |                                                        |
04089> *#                 |                  Controlled Runoff From ZONE 1         |
04090> *#                 |                                                        |
04091> *#-----------------|--------------------------------------------------------|
04092> *#                 |                                                        |
04093> *%-----------------|--------------------------------------------------------|
04094> *#-----------------|---------------- SWM Facility #1 Area -------------------|
04095> *#-----------------|---------------- West Site Area -----------------------|
04096> *#-----------------|--------------------------------------------------------|
04097> CALIB NASHYD       ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
04098>                    DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
04099>                    N=[3], TP=[0.26]hrs,
04100>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04101> *#-----------------|--------------------------------------------------------|
04102> CALIB STANDHYD     ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
04103>                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
04104>                    SCS curve number CN=[74],
04105>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04106>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
04107>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04108>                                          LGI=[287](m), MNI=[0.013], SCI=[0](min),
04109>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04110> *#-----------------|--------------------------------------------------------|
04111> CALIB STANDHYD     ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
04112>                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
04113>                    SCS curve number CN=[74],
04114>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04115>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
04116>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04117>                                          LGI=[81](m), MNI=[0.013], SCI=[0](min),
04118>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04119> *#-----------------|--------------------------------------------------------|
04120> CALIB STANDHYD     ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
04121>                    XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
04122>                    SCS curve number CN=[74],
04123>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04124>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
04125>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04126>                                          LGI=[113](m), MNI=[0.013], SCI=[0](min),
04127>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04128> *#-----------------|--------------------------------------------------------|
04129> ADD HYD            IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
04130> *#-----------------|--------------------------------------------------------|
04131> *#-----------------|---------------- SWM Facility #1 ----------------------|
04132> *#-----------------|--------------------------------------------------------|
04133> ROUTE RESERVOIR    IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
04134>                    RDT=[1](min),
04135>                          TABLE of ( OUTFLOW-STORAGE ) values
04136>                                                (cms) - (ha-m)
04137>                                          [  0.0 , 0.0  ]
04138>                                          [ 0.005 , 0.034 ]
04139>                                          [ 0.011 , 0.114 ]
04140>                                          [ 0.013 , 0.164 ]
04141>                                          [ 0.017 , 0.297 ]
04142>                                          [ 0.018 , 0.380 ]
04143>                                          [ 0.020 , 0.523 ]
04144>                                          [ 0.022 , 0.734 ]
04145>                                          [ 0.067 , 0.848 ]
04146>                                          [ 0.252 , 1.092 ]
04147>                                          [   -1  ,  -1  ]  (max twenty pts)
04148>                          IDovf=[2], NHYDovf=["P#1Over"]
04149> *#-----------------|--------------------------------------------------------|
04150> *#-----------------|--------------------------------------------------------|
04151> *#                 |                                                        |
04152> *#                 |                   Watercourse Flows- ZONE 1            |
04153> *#                 |                                                        |
04154> *#-----------------|--------------------------------------------------------|
04155> *#-----------------|--------------------------------------------------------|
04156> *#-----------------|-------------- West Watercourse Area ---------------------|
04157> *#-----------------|------------- Small Unnmaed Tributary ---------------------|
04158> *#-----------------|--------------------------------------------------------|
04159> *%-----------------|--------------------------------------------------------|
04160> CALIB NASHYD       ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
04161>                    DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
04162>                    N=[3], TP=[0.57]hrs,
04163>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04164> *#-----------------|--------------------------------------------------------|
04165> ROUTE CHANNEL      IDout=[4], NHYD=["SiteLag"], IDin=[3],
04166>                    RDT=[1](min),
04167>                    CHLGTH=[425](m),  CHSLOPE=[0.96](%),
04168>                                        FPSLOPE=[0.96](%),
04169>                    SECNUM=[1],       NSEG=[3]
04170>                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
04171>                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
04172>                                                   [ 48.0, 514.81]
04173>                                                   [ 60.0, 514.69]
04174>                                                   [ 68.5, 514.54]
04175>                                                   [ 75.5, 514.23]
04176>                                                   [ 76.0, 514.06]
04177>                                                   [ 77.5, 514.06]
04178>                                                   [ 78.5, 514.36]
04179>                                                   [ 79.5, 514.39]
04180>                                                   [ 92.5, 514.49]
04181>                                                   [103.5, 514.51]
04182>                                                   [118.5, 514.67]
04183>                                                   [130.5, 514.50]
04184>                                                   [151.0, 515.00]
04185> *%-----------------|--------------------------------------------------------|
04186> CALIB NASHYD       ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
04187>                    DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
04188>                    N=[3], TP=[0.40]hrs,
04189>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04190> *#-----------------|--------------------------------------------------------|
04191> *#-----------------|-------- Total Flow at South Property Line ----------------|
04192> *#-----------------|--------------------------------------------------------|
04193> ADD HYD            IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
04194> *#-----------------|--------------------------------------------------------|
04195> ROUTE CHANNEL      IDout=[1], NHYD=["DS Lag"], IDin=[3],
04196>                    RDT=[1](min),
04197>                    CHLGTH=[150](m),  CHSLOPE=[0.96](%),
04198>                                        FPSLOPE=[0.96](%),
04199>                    SECNUM=[1],       NSEG=[3]
04200>                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
04201>                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
04202>                                                   [ 48.0, 514.81]
04203>                                                   [ 60.0, 514.69]
04204>                                                   [ 68.5, 514.54]
04205>                                                   [ 75.5, 514.23]
04206>                                                   [ 76.0, 514.06]
04207>                                                   [ 77.5, 514.06]
04208>                                                   [ 78.5, 514.36]
04209>                                                   [ 79.5, 514.39]
04210>                                                   [ 92.5, 514.49]
04211>                                                   [103.5, 514.51]
04212>                                                   [118.5, 514.67]
04213>                                                   [130.5, 514.50]
04214>                                                   [151.0, 515.00]
04215> *#-----------------|--------------------------------------------------------|
04216> CALIB NASHYD       ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
04217>                    DWF=[0](cms),  CN/C=[60], IA=[10](mm),
04218>                    N=[3], TP=[0.47]hrs,
04219>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04220> *#-----------------|--------------------------------------------------------|
04221>
04222>
04223>
04224> *#-----------------|--------------------------------------------------------|
04225> *#                 |                                                        |
04226> *#                 |                  Controlled Runoff From ZONE 2         |
04227> *#                 |                                                        |
04228> *#-----------------|--------------------------------------------------------|
04229>
04230> *#-----------------|--------------------------------------------------------|
04231> CALIB STANDHYD     ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
04232>                    XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
04233>                    SCS curve number CN=[74],
04234>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04235>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
04236>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04237>                                          LGI=[313](m), MNI=[0.013], SCI=[0](min),
04238>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04239> *#-----------------|--------------------------------------------------------|
04240> CALIB STANDHYD     ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
04241>                    XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
04242>                    SCS curve number CN=[74],
04243>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04244>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
04245>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04246>                                          LGI=[37](m), MNI=[0.013], SCI=[0](min),
04247>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04248> *#-----------------|--------------------------------------------------------|
04249> DIVERT HYD         IDin=[4], NIDout=[2]max five,
04250>                    outflow hydrographs (ID, NHYD)=[5,"MINOR" / 6,"MAJOR"]
04251>                    flow distribution table: (modify as necessary)
04252>                    Note: all flows are in (cms)
04253>                       QIDi +  QIDii   =  QTOTAL
04254>                       [ 0.000  +  0.000  =  0.000]
04255>                       [ 0.035 +   0.000   =  0.035]
04256>                       [ 0.035 +   10.000  =  10.035]end
04257> *#-----------------|--------------------------------------------------------|
04258> CALIB STANDHYD     ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
04259>                    XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
04260>                    SCS curve number CN=[74],
04261>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04262>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
04263>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04264>                                          LGI=[47](m), MNI=[0.013], SCI=[0](min),
04265>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04266> *#-----------------|--------------------------------------------------------|
04267> CALIB STANDHYD     ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
04268>                    XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
04269>                    SCS curve number CN=[74],
04270>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04271>                                          LGP=[40](m), MNP=[0.25], SCP=[0](min),
04272>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
```

```
                                        LGI=[86](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
*#------------------|-------------------------------------------------------------|
*#------------------|---------------- SWM Facility #2 ------------------------------|
ROUTE RESERVOIR     IDout=[3],    NHYD=["P#2Out"],  IDin=[8],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                   (cms) - (ha-m)
                                 [  0.0 , 0.0  ]
                                 [0.008 , 0.048]
                                 [0.026 , 0.123]
                                 [0.036 ,  0.204]
                                 [0.044 ,  0.261]
                                 [0.080 ,  0.320]
                                 [0.110 ,  0.350]
                                 [0.146 ,  0.380]
                                 [0.239 ,  0.443]
                                 [0.560 ,  0.574]
                                 [0.828 ,  0.642]
                                 [1.154 ,  0.711]
                                 [1.535 ,  0.782]
                                 [1.746 ,  0.818]
                                 [1.924 ,  0.847]
                                 [1.984 ,  0.855]
                                 [3.005 ,  0.940]
                                 [4.549 ,  1.032]
                                 [12.016, 1.330]
                                 [   -1 ,  -1  ]  (max twenty pts)
                        IDovf=[4], NHYDovf=["P#2Over"]
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
*#------------------|-------------------------------------------------------------|
DIVERT HYD          IDin=[5], NIDout=[2]max five,
                    outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
                    flow distribution table: (modify as necessary)
                    Note: all flows are in (cms)
                        QIDi +  QIDii   =  QTOTAL
                    [   0  +   0      =   0   ]
                    [ 0.000 +   0.008  =  0.008 ]
                    [ 0.000 +   0.022  =  0.026 ]
                    [ 0.000 +   0.033  =  0.033 ]
                    [ 0.000 +   0.044  =  0.044 ]
                    [ 0.019 +   0.062  =  0.080 ]
                    [ 0.053 +   0.093  =  0.146 ]
                    [ 0.097 +   0.143  =  0.239 ]
                    [ 0.208 +   0.352  =  0.560 ]
                    [ 0.345 +   0.809  =  1.1554 ]
                    [ 0.461 +   1.285  = 1.746 ]
                    [ 0.503 +   1.486  = 1.988 ]
                    [ 0.589 +   2.584  = 3.173 ]
                    [ 0.679 +   4.312  =  4.991 ]
                    [ 0.975 +   12.716 = 13.692] end
*#------------------|-------------------------------------------------------------|
*#                  |                                                             |
*#                  |                      Watercourse Flows- ZONE 2              |
*#                  |                                                             |
*#------------------|-------------------------------------------------------------|
*#------------------|-------------- East Watercourse Area -----------------------|
*#------------------|---------------        Foley Drain        -------------------|
*#------------------|-------------------------------------------------------------|
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
                    DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
                    N=[3], TP=[1.87]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
                    DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
                    N=[3], TP=[0.36]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
*#------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[5], NHYD=["SiteLag"], IDin=[8],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                      FPSLOPE=[0.65](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                   [196.60, 514.00]
                                                   [215.60, 513.59]
                                                   [216.55, 513.00]
                                                   [217.20, 512.50]
                                                   [217.45, 512.46]
                                                   [217.80, 512.50]
                                                   [218.95, 513.00]
                                                   [221.30, 513.50]
                                                   [221.70, 513.71]
                                                   [230.40, 513.71]
                                                   [243.80, 514.00]
                                                   [249.40, 514.12]
                                                   [259.50, 514.28]
                                                   [266.50, 514.50]
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
*#                  |                                                             |
*#                  |                   Controlled Runoff From ZONE 3             |
*#                  |                                                             |
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
                    XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[259](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
                    XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[90](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
*#------------------|---------------- SWM Facility #3 ------------------------------|
*#------------------|-------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[7],    NHYD=["P#3Out"],  IDin=[9],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                   (cms) - (ha-m)
                                 [  0.0 , 0.0  ]
                                 [ 0.007 , 0.036]
                                 [ 0.013 , 0.075]
                                 [ 0.016 , 0.107]
                                 [ 0.017 , 0.115]
                                 [ 0.023 , 0.202]
                                 [ 0.027 , 0.272]
                                 [ 0.030 , 0.348]
                                 [ 0.035 , 0.517]
                                 [ 0.040 , 0.709]
                                 [ 0.045 , 0.922]
                                 [ 1.247 , 1.155]
                                 [   -1 ,  -1  ]  (max twenty pts)
                        IDovf=[8], NHYDovf=["P#2Over"]
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                    DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
                    N=[3], TP=[0.64]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
*#          11     000     000   Y   Y  RRRR       SSSS   CCCC   SSSS
*#         1 1    0   0   0   0  Y Y  R   R     S       C       S
*#         1   0   0   0   0   0    Y    RRRR       SSSS  C        SSSS
*#         1   0   0   0   0   0    Y    R  R           S C           S
*#        11111   000     000      Y    R   R      SSSS   CCCC   SSSS
*#------------------|-------------------------------------------------------------|
*%------------------|-------------------------------------------------------------|
*#------------------|------- 100 YEAR ------------------------------------------|
*#------------------|-------------------------------------------------------------|
MASS STORM          PTOTAL=[128.8](mm), CSDT=[15](min),
                    CURVE_FILENAME=["SCS24H.MST"]
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
*#                  |                                                             |
*#                  |                   Controlled Runoff From ZONE 1             |
*#                  |                                                             |
*#------------------|-------------------------------------------------------------|
*#
*%------------------|-------------------------------------------------------------|
*#------------------|---------------- SWM Facility #1 Area -------------------------|
*#------------------|---------------- West Site Area -------------------------------|
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
                    DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
                    N=[3], TP=[0.26]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[287](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[81](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
                    XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[113](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
*#------------------|-------------------------------------------------------------|
*#------------------|---------------- SWM Facility #1 ------------------------------|
*#------------------|-------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                   (cms) - (ha-m)
                                 [  0.0 , 0.0  ]
                                 [ 0.005 , 0.034 ]
                                 [ 0.011 , 0.114 ]
                                 [ 0.013 , 0.164 ]
                                 [ 0.017 , 0.297 ]
                                 [ 0.018 , 0.380 ]
                                 [ 0.020 , 0.523 ]
                                 [ 0.022 , 0.734 ]
                                 [ 0.067 , 0.848 ]
                                 [ 0.252 , 1.092 ]
                                 [   -1 ,  -1  ]  (max twenty pts)
                        IDovf=[2], NHYDovf=["P#1Over"]
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
*#                  |                                                             |
*#                  |                      Watercourse Flows- ZONE 1              |
*#                  |                                                             |
*#------------------|-------------------------------------------------------------|
*#------------------|-------------------------------------------------------------|
*#------------------|-------------- West Watercourse Area ----------------------|
*#------------------|---------------- Small Unnmed Tributary ----------------------|
*#------------------|-------------------------------------------------------------|
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
                    DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
                    N=[3], TP=[0.57]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[4], NHYD=["SiteLag"], IDin=[3],
                    RDT=[1](min),
                    CHLGTH=[425](m),  CHSLOPE=[0.96](%),
                                      FPSLOPE=[0.96](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                   [ 48.0, 514.81]
                                                   [ 60.0, 514.69]
                                                   [ 68.5, 514.54]
                                                   [ 75.5, 514.23]
                                                   [ 76.0, 514.06]
                                                   [ 77.5, 514.06]
                                                   [ 78.5, 514.36]
                                                   [ 79.5, 514.39]
                                                   [ 92.5, 514.49]
                                                   [103.5, 514.51]
                                                   [118.5, 514.67]
                                                   [130.5, 514.50]
                                                   [151.0, 515.00]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
                    DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
                    N=[3], TP=[0.40]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
*#------------------|-------- Total Flow at South Property Line ----------------|
*#------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
*#------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[1], NHYD=["DS Lag"], IDin=[3],
                    RDT=[1](min),
                    CHLGTH=[150](m),  CHSLOPE=[0.96](%),
                                      FPSLOPE=[0.96](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
                                                   [ 48.0, 514.81]
                                                   [ 60.0, 514.69]
                                                   [ 68.5, 514.54]
                                                   [ 75.5, 514.23]
                                                   [ 76.0, 514.06]
                                                   [ 77.5, 514.06]
                                                   [ 78.5, 514.36]
                                                   [ 79.5, 514.39]
                                                   [ 92.5, 514.49]
                                                   [103.5, 514.51]
                                                   [118.5, 514.67]
                                                   [130.5, 514.50]
                                                   [151.0, 515.00]
*#------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
                    DWF=[0](cms),  CN/C=[60], IA=[10](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#------------------|-------------------------------------------------------------|
*#
*#
*#------------------|-------------------------------------------------------------|
*#                  |                                                             |
*#                  |                   Controlled Runoff From ZONE 2             |
*#                  |                                                             |
*#------------------|-------------------------------------------------------------|
*#
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
                    XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[313](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
                    XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[37](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#------------------|-------------------------------------------------------------|
DIVERT HYD          IDin=[4], NIDout=[2]max five,
                    outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
                    flow distribution table: (modify as necessary)
                    Note: all flows are in (cms)
                       QIDi +  QIDii   =  QTOTAL
                     [ 0.000  +  0.000   =  0.000]
                     [ 0.035 +   0.000   =  0.035]
                     [ 0.035 +   10.000  =  10.035]end
*#------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
                    XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[47](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
```

```
04629> *#-----------------|-------------------------------------------------------------|
04630> CALIB STANDHYD     ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
04631>                    XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
04632>                    SCS curve number CN=[74],
04633>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04634>                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
04635>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04636>                                         LGI=[86](m), MNI=[0.013], SCI=[0](min),
04637>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04638> *#-----------------|-------------------------------------------------------------|
04639> *#-----------------|-------------------------------------------------------------|
04640> ADD HYD            IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
04641> *#-----------------|-------------------------------------------------------------|
04642> *#-----------------|------------------- SWM Facility #2 -------------------------|
04643> *#-----------------|-------------------------------------------------------------|
04644> ROUTE RESERVOIR    IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
04645>                    RDT=[1](min),
04646>                          TABLE of ( OUTFLOW-STORAGE ) values
04647>                                        (cms) - (ha-m)
04648>                                   [  0.0 , 0.0  ]
04649>                                   [0.008 , 0.048]
04650>                                   [0.026 , 0.123]
04651>                                   [0.036 ,  0.204]
04652>                                   [0.044 ,  0.261]
04653>                                   [0.080 ,  0.320]
04654>                                   [0.110 ,  0.350]
04655>                                   [0.146 ,  0.380]
04656>                                   [0.239 ,  0.443]
04657>                                   [0.560 ,  0.574]
04658>                                   [0.828 ,  0.642]
04659>                                   [1.154 ,  0.711]
04660>                                   [1.535 ,  0.782]
04661>                                   [1.746 ,  0.818]
04662>                                   [1.924 ,  0.847]
04663>                                   [1.984 ,  0.855]
04664>                                   [3.005 ,  0.940]
04665>                                   [4.549 ,  1.032]
04666>                                   [12.016, 1.330]
04667>                                   [   -1  ,  -1  ]  (max twenty pts)
04668>                          IDovf=[4], NHYDovf=["P#2Over"]
04669> *#-----------------|-------------------------------------------------------------|
04670> ADD HYD            IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
04671> *#-----------------|-------------------------------------------------------------|
04672> DIVERT HYD         IDin=[5], NIDout=[2]max five,
04673>                    outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
04674>                    flow distribution table: (modify as necessary)
04675>                    Note: all flows are in (cms)
04676>                          QIDi +  QIDii    =  QTOTAL
04677>                       [   0  +   0     =   0   ]
04678>                       [ 0.000 +   0.008  =  0.008 ]
04679>                       [ 0.000 +   0.022  =  0.026 ]
04680>                       [ 0.000 +   0.033  =  0.033 ]
04681>                       [ 0.000 +   0.044  =  0.044 ]
04682>                       [ 0.019 +   0.062  =  0.080 ]
04683>                       [ 0.053 +   0.093  =  0.146 ]
04684>                       [ 0.097 +   0.143  =  0.239 ]
04685>                       [ 0.208 +   0.352  =  0.560 ]
04686>                       [ 0.345 +   0.809  =  1.1554 ]
04687>                       [ 0.461 +   1.285  = 1.746 ]
04688>                       [ 0.503 +   1.486  = 1.988 ]
04689>                       [ 0.589 +   2.584  = 3.173 ]
04690>                       [ 0.679 +   4.312  =  4.991 ]
04691>                       [ 0.975 +   12.716 = 13.692] end
04692> *#-----------------|-------------------------------------------------------------|
04693> *#                 |                                                             |
04694> *#                 |                     Watercourse Flows- ZONE 2               |
04695> *#                 |                                                             |
04696> *#-----------------|-------------------------------------------------------------|
04697> *#-----------------|-------------------------------------------------------------|
04698> *#-----------------|------------------- East Watercourse Area ------------------|
04699> *#-----------------|----------------       Foley Drain       -------------------|
04700> *#-----------------|-------------------------------------------------------------|
04701> *%-----------------|-------------------------------------------------------------|
04702> *%-----------------|-------------------------------------------------------------|
04703> CALIB NASHYD       ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
04704>                    DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
04705>                    N=[3], TP=[1.87]hrs,
04706>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04707> *#-----------------|-------------------------------------------------------------|
04708> CALIB NASHYD       ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
04709>                    DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
04710>                    N=[3], TP=[0.36]hrs,
04711>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04712> *#-----------------|-------------------------------------------------------------|
04713> ADD HYD            IDsum=[8], NHYD=["FIn"], IDs to add=[5+7]
04714> *#-----------------|-------------------------------------------------------------|
04715> ROUTE CHANNEL      IDout=[5], NHYD=["SiteLag"], IDin=[8],
04716>                    RDT=[1](min),
04717>                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
04718>                                        FPSLOPE=[0.65](%),
04719>                    SECNUM=[1],       NSEG=[3]
04720>                    ( SEGROUGH, SEGDIST (m)=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
04721>                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
04722>                                                   [196.60, 514.00]
04723>                                                   [215.60, 513.59]
04724>                                                   [216.55, 513.00]
04725>                                                   [217.20, 512.50]
04726>                                                   [217.45, 512.46]
04727>                                                   [217.80, 512.50]
04728>                                                   [218.95, 513.00]
04729>                                                   [221.30, 513.50]
04730>                                                   [221.70, 513.71]
04731>                                                   [230.40, 513.71]
04732>                                                   [243.80, 514.00]
04733>                                                   [249.40, 514.12]
04734>                                                   [259.50, 514.28]
04735>                                                   [266.50, 514.50]
04736> *#-----------------|-------------------------------------------------------------|
04737>                    |                                                             |
04738> *#-----------------|-------------------------------------------------------------|
04739> *#                 |                                                             |
04740> *#                 |                 Controlled Runoff From ZONE 3               |
04741> *#                 |                                                             |
04742> *#-----------------|-------------------------------------------------------------|
04743> *#-----------------|-------------------------------------------------------------|
04744> CALIB STANDHYD     ID=[7], NHYD=["FB2"], DT=[1](min), AREA=[10.1](ha),
04745>                    XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
04746>                    SCS curve number CN=[74],
04747>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04748>                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
04749>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04750>                                         LGI=[259](m), MNI=[0.013], SCI=[0](min),
04751>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04752> *#-----------------|-------------------------------------------------------------|
04753> CALIB STANDHYD     ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
04754>                    XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
04755>                    SCS curve number CN=[74],
04756>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04757>                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
04758>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04759>                                         LGI=[90](m), MNI=[0.013], SCI=[0](min),
04760>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04761> *#-----------------|-------------------------------------------------------------|
04762> ADD HYD            IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
04763> *#-----------------|-------------------------------------------------------------|
04764> *#-----------------|-------------------------------------------------------------|
04765> *#-----------------|------------------- SWM Facility #3 -------------------------|
04766> *#-----------------|-------------------------------------------------------------|
04767> ROUTE RESERVOIR    IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
04768>                    RDT=[1](min),
04769>                          TABLE of ( OUTFLOW-STORAGE ) values
04770>                                        (cms) - (ha-m)
04771>                                   [  0.0 , 0.0  ]
04772>                                   [ 0.007 , 0.036]
04773>                                   [ 0.013 , 0.075]
04774>                                   [ 0.016 , 0.107]
04775>                                   [ 0.017 , 0.115]
04776>                                   [ 0.023 , 0.202]
04777>                                   [ 0.027 , 0.272]
04778>                                   [ 0.030 , 0.348]
04779>                                   [ 0.035 , 0.517]
04780>                                   [ 0.040 , 0.709]
04781>                                   [ 0.045 , 0.922]
04782>                                   [ 1.247 , 1.155]
04783>                                   [   -1  ,  -1  ]  (max twenty pts)
04784>                          IDovf=[8], NHYDovf=["P#2Over"]
04785> *#-----------------|-------------------------------------------------------------|
04786> ADD HYD            IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
04787> *#-----------------|-------------------------------------------------------------|
04788> CALIB NASHYD       ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
04789>                    DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
04790>                    N=[3], TP=[0.64]hrs,
04791>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04792> *#-----------------|-------------------------------------------------------------|
04793> ADD HYD            IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
04794> *#-----------------|-------------------------------------------------------------|
04795> ADD HYD            IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
04796> *#-----------------|-------------------------------------------------------------|
04797>
04798>
04799> *#*****************************************************************************
04800> *#                                Regional Storm (Hazel)
04801> *#*****************************************************************************
04802> READ STORM          STORM_FILENAME=["hazel.stm"]
04803> *#-----------------|-------------------------------------------------------------|
04804> *#-----------------|-------------------------------------------------------------|
04805> *#                 |                                                             |
04806> *#                 |                 Controlled Runoff From ZONE 1               |
```

```
04807> *#                 |                                                             |
04808> *#-----------------|-------------------------------------------------------------|
04809> *#                 |                                                             |
04810> *%-----------------|-------------------------------------------------------------|
04811> *#-----------------|---------------- SWM Facility #1 Area ----------------------|
04812> *#-----------------|---------------------- West Site Area ----------------------|
04813> *#-----------------|-------------------------------------------------------------|
04814> CALIB NASHYD       ID=[11], NHYD=["Ext 5"], DT=[1]min, AREA=[0.97](ha),
04815>                    DWF=[0](cms),  CN/C=[77.7], IA=[4.5](mm),
04816>                    N=[3], TP=[0.26]hrs,
04817>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04818> *#-----------------|-------------------------------------------------------------|
04819> CALIB STANDHYD     ID=[2], NHYD=["FB Z1-1"], DT=[1](min), AREA=[12.37](ha),
04820>                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
04821>                    SCS curve number CN=[74],
04822>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04823>                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
04824>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04825>                                         LGI=[287](m), MNI=[0.013], SCI=[0](min),
04826>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04827> *#-----------------|-------------------------------------------------------------|
04828> CALIB STANDHYD     ID=[3], NHYD=["FB Z1-3"], DT=[1](min), AREA=[0.98](ha),
04829>                    XIMP=[0.3], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
04830>                    SCS curve number CN=[74],
04831>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04832>                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
04833>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04834>                                         LGI=[81](m), MNI=[0.013], SCI=[0](min),
04835>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04836> *#-----------------|-------------------------------------------------------------|
04837> CALIB STANDHYD     ID=[4], NHYD=["SWMF#1"], DT=[1](min), AREA=[1.9](ha),
04838>                    XIMP=[0.5], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
04839>                    SCS curve number CN=[74],
04840>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04841>                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
04842>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04843>                                         LGI=[113](m), MNI=[0.013], SCI=[0](min),
04844>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04845> *#-----------------|-------------------------------------------------------------|
04846> ADD HYD            IDsum=[5], NHYD=["P#1 IN"], IDs to add=[1+2+3+4]
04847> *#-----------------|-------------------------------------------------------------|
04848> *#-----------------|---------------- SWM Facility #1 -------------------------|
04849> *#-----------------|-------------------------------------------------------------|
04850> ROUTE RESERVOIR    IDout=[1],   NHYD=["P#1Out"],  IDin=[5],
04851>                    RDT=[1](min),
04852>                          TABLE of ( OUTFLOW-STORAGE ) values
04853>                                        (cms) - (ha-m)
04854>                                   [   0.0 , 0.0   ]
04855>                                   [ 0.005 , 0.034 ]
04856>                                   [ 0.011 , 0.114 ]
04857>                                   [ 0.013 , 0.164 ]
04858>                                   [ 0.017 , 0.297 ]
04859>                                   [ 0.018 , 0.380 ]
04860>                                   [ 0.020 , 0.523 ]
04861>                                   [ 0.022 , 0.734 ]
04862>                                   [ 0.067 , 0.848 ]
04863>                                   [ 0.252 , 1.092 ]
04864>                                   [   -1  ,  -1   ]  (max twenty pts)
04865>                          IDovf=[2], NHYDovf=["P#1Over"]
04866> *#-----------------|-------------------------------------------------------------|
04867> *#-----------------|-------------------------------------------------------------|
04868> *#                 |                                                             |
04869> *#                 |                     Watercourse Flows- ZONE 1               |
04870> *#                 |                                                             |
04871> *#-----------------|-------------------------------------------------------------|
04872> *#-----------------|-------------------------------------------------------------|
04873> *#-----------------|-------------- West Watercourse Area ----------------------|
04874> *#-----------------|------------- Small Unnmaed Tributary ----------------------|
04875> *#-----------------|-------------------------------------------------------------|
04876> *%-----------------|-------------------------------------------------------------|
04877> CALIB NASHYD       ID=[3], NHYD=["Ext 1"], DT=[1]min, AREA=[41.2](ha),
04878>                    DWF=[0](cms),  CN/C=[74.1], IA=[6.1](mm),
04879>                    N=[3], TP=[0.57]hrs,
04880>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04881> *#-----------------|-------------------------------------------------------------|
04882> ROUTE CHANNEL      IDout=[4], NHYD=["SiteLag"], IDin=[3],
04883>                    RDT=[1](min),
04884>                    CHLGTH=[425](m),  CHSLOPE=[0.96](%),
04885>                                        FPSLOPE=[0.96](%),
04886>                    SECNUM=[1],       NSEG=[3]
04887>                    ( SEGROUGH, SEGDIST (m)=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
04888>                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
04889>                                                   [ 48.0, 514.81]
04890>                                                   [ 60.0, 514.69]
04891>                                                   [ 68.5, 514.54]
04892>                                                   [ 75.5, 514.23]
04893>                                                   [ 76.0, 514.06]
04894>                                                   [ 77.5, 514.06]
04895>                                                   [ 78.5, 514.36]
04896>                                                   [ 79.5, 514.39]
04897>                                                   [ 92.5, 514.49]
04898>                                                   [103.5, 514.51]
04899>                                                   [118.5, 514.67]
04900>                                                   [130.5, 514.50]
04901>                                                   [151.0, 515.00]
04902> *%-----------------|-------------------------------------------------------------|
04903> CALIB NASHYD       ID=[5], NHYD=["FB Z1-2"], DT=[1]min, AREA=[5.68](ha),
04904>                    DWF=[0](cms),  CN/C=[77], IA=[6.4](mm),
04905>                    N=[3], TP=[0.40]hrs,
04906>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04907> *#-----------------|-------------------------------------------------------------|
04908> *#-----------------|------- Total Flow at South Property Line ----------------|
04909> *#-----------------|-------------------------------------------------------------|
04910> ADD HYD            IDsum=[3], NHYD=["UnC PL"], IDs to add=[1+2+4+5]
04911> *#-----------------|-------------------------------------------------------------|
04912> ROUTE CHANNEL      IDout=[1], NHYD=["DS Lag"], IDin=[3],
04913>                    RDT=[1](min),
04914>                    CHLGTH=[150](m),  CHSLOPE=[0.96](%),
04915>                                        FPSLOPE=[0.96](%),
04916>                    SECNUM=[1],       NSEG=[3]
04917>                    ( SEGROUGH, SEGDIST (m)=[0.035,75.5 -0.045,78.5 0.035,151.0] NSEG times
04918>                    ( DISTANCE (m), ELEVATION (m))=[ 31.0, 515.00]
04919>                                                   [ 48.0, 514.81]
04920>                                                   [ 60.0, 514.69]
04921>                                                   [ 68.5, 514.54]
04922>                                                   [ 75.5, 514.23]
04923>                                                   [ 76.0, 514.06]
04924>                                                   [ 77.5, 514.06]
04925>                                                   [ 78.5, 514.36]
04926>                                                   [ 79.5, 514.39]
04927>                                                   [ 92.5, 514.49]
04928>                                                   [103.5, 514.51]
04929>                                                   [118.5, 514.67]
04930>                                                   [130.5, 514.50]
04931>                                                   [151.0, 515.00]
04932> *#-----------------|-------------------------------------------------------------|
04933> CALIB NASHYD       ID=[2], NHYD=["Ext 3"], DT=[1]min, AREA=[1.55](ha),
04934>                    DWF=[0](cms),  CN/C=[60], IA=[10](mm),
04935>                    N=[3], TP=[0.47]hrs,
04936>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
04937> *#-----------------|-------------------------------------------------------------|
04938>
04939>
04940>
04941> *#-----------------|-------------------------------------------------------------|
04942> *#                 |                                                             |
04943> *#                 |                 Controlled Runoff From ZONE 2               |
04944> *#                 |                                                             |
04945> *#-----------------|-------------------------------------------------------------|
04946>
04947> *#-----------------|-------------------------------------------------------------|
04948> CALIB STANDHYD     ID=[3], NHYD=["FB1"], DT=[1](min), AREA=[14.70](ha),
04949>                    XIMP=[0.35], TIMP=[0.55], DWF=[0](cms), LOSS=[2],
04950>                    SCS curve number CN=[74],
04951>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04952>                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
04953>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04954>                                         LGI=[313](m), MNI=[0.013], SCI=[0](min),
04955>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04956> *#-----------------|-------------------------------------------------------------|
04957> CALIB STANDHYD     ID=[4], NHYD=["MINOR"], DT=[1](min), AREA=[0.21](ha),
04958>                    XIMP=[0.61], TIMP=[0.61], DWF=[0](cms), LOSS=[2],
04959>                    SCS curve number CN=[74],
04960>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04961>                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
04962>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04963>                                         LGI=[37](m), MNI=[0.013], SCI=[0](min),
04964>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04965> *#-----------------|-------------------------------------------------------------|
04966> DIVERT HYD         IDin=[4], NIDout=[2]max five,
04967>                    outflow hydrographs (ID, NHYD)=[5,"MINOR"/ 6,"MAJOR"]
04968>                    flow distribution table: (modify as necessary)
04969>                    Note: all flows are in (cms)
04970>                          QIDi +  QIDii    =  QTOTAL
04971>                       [ 0.000  +  0.000   =  0.000]
04972>                       [ 0.035 +   0.000   =  0.035]
04973>                       [ 0.035 +   10.000  =  10.035]end
04974> *#-----------------|-------------------------------------------------------------|
04975> CALIB STANDHYD     ID=[4], NHYD=["FB1-A"], DT=[1](min), AREA=[0.33](ha),
04976>                    XIMP=[0.01], TIMP=[0.394], DWF=[0](cms), LOSS=[2],
04977>                    SCS curve number CN=[74],
04978>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
04979>                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
04980>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
04981>                                         LGI=[47](m), MNI=[0.013], SCI=[0](min),
04982>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
04983> *#-----------------|-------------------------------------------------------------|
04984> CALIB STANDHYD     ID=[7], NHYD=["SWMF#2"], DT=[1](min), AREA=[1.11](ha),
```

```
                    XIMP=[0.51], TIMP=[0.51], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[86](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#----------------|-------------------------------------------------------------|
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["P#2 In"], IDs to add=[3+5+4+7]
*#----------------|-------------------------------------------------------------|
*#----------------|---------------- SWM Facility #2 ---------------------------|
*#----------------|-------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[3],   NHYD=["P#2Out"],  IDin=[8],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                      [  0.0 , 0.0  ]
                                      [0.008 , 0.048]
                                      [0.026 , 0.123]
                                      [0.036 ,  0.204]
                                      [0.044 ,  0.261]
                                      [0.080 ,  0.320]
                                      [0.110 ,  0.350]
                                      [0.146 ,  0.380]
                                      [0.239 ,  0.443]
                                      [0.560 ,  0.574]
                                      [0.828 ,  0.642]
                                      [1.154 ,  0.711]
                                      [1.535 ,  0.782]
                                      [1.746 ,  0.818]
                                      [1.924 ,  0.847]
                                      [1.984 ,  0.855]
                                      [3.005 ,  0.940]
                                      [4.549 ,  1.032]
                                      [12.016, 1.330]
                                      [   -1  ,  -1  ]  (max twenty pts)
                          IDovf=[4], NHYDovf=["P#2Over"]
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["P#2 Out"], IDs to add=[3+4]
*#----------------|-------------------------------------------------------------|
DIVERT HYD          IDin=[5], NIDout=[2]max five,
                    outflow hydrographs (ID, NHYD)=[3,"PTwoW"/ 4,"PTwoE"]
                    flow distribution table: (modify as necessary)
                    Note: all flows are in (cms)
                         QIDi +  QIDii   =  QTOTAL
                       [   0  +   0    =    0    ]
                       [ 0.000 +   0.008  =  0.008 ]
                       [ 0.000 +   0.022  =  0.026 ]
                       [ 0.000 +   0.033  =  0.033 ]
                       [ 0.000 +   0.044  =  0.044 ]
                       [ 0.019 +   0.062  =  0.080 ]
                       [ 0.053 +   0.093  =  0.146 ]
                       [ 0.097 +   0.143  =  0.239 ]
                       [ 0.208 +   0.352  =  0.560 ]
                       [ 0.345 +   0.809  =  1.1554 ]
                       [ 0.461 +   1.285  = 1.746 ]
                       [ 0.503 +   1.486  = 1.988 ]
                       [ 0.589 +   2.584  = 3.173 ]
                       [ 0.679 +   4.312  =  4.991 ]
                       [ 0.975 +   12.716 = 13.692] end
*#----------------|-------------------------------------------------------------|
*#                |                                                             |
*#                |                     Watercourse Flows- ZONE 2               |
*#                |                                                             |
*#----------------|-------------------------------------------------------------|
*#----------------| ------------- East Watercourse Area ----------------------|
*#----------------|-------------        Foley Drain        ---------------------|
*#----------------|-------------------------------------------------------------|
*%----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[5], NHYD=["Ext-2"], DT=[1]min, AREA=[417.2](ha),
                    DWF=[0](cms),  CN/C=[74.7], IA=[7.65](mm),
                    N=[3], TP=[1.87]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[7], NHYD=["NAT"], DT=[1]min, AREA=[6.51](ha),
                    DWF=[0](cms),  CN/C=[79.1], IA=[6.4](mm),
                    N=[3], TP=[0.36]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[8], NHYD=["PIn"], IDs to add=[5+7]
*#----------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[5], NHYD=["SiteLag"], IDin=[8],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[0.65](%),
                                      FPSLOPE=[0.65](%),
                    SECNUM=[1],       NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.035,215.60 -0.045,221.70 0.035,266.50] NSEG times
                    ( DISTANCE (m), ELEVATION (m))=[179.70, 514.50]
                                                   [196.60, 514.00]
                                                   [215.60, 513.59]
                                                   [216.55, 513.00]
                                                   [217.20, 512.50]
                                                   [217.45, 512.46]
                                                   [217.80, 512.50]
                                                   [218.95, 513.00]
                                                   [221.30, 513.50]
                                                   [221.70, 513.71]
                                                   [230.40, 513.71]
                                                   [243.80, 514.00]
                                                   [249.40, 514.12]
                                                   [259.50, 514.28]
                                                   [266.50, 514.50]
*#----------------|-------------------------------------------------------------|
*#----------------|-------------------------------------------------------------|
*#                |                                                             |
*#                |                  Controlled Runoff From ZONE 3              |
*#                |                                                             |
*#----------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[7], NHYD=["PB2"], DT=[1](min), AREA=[10.1](ha),
                    XIMP=[0.324], TIMP=[0.589], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[259](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#----------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[8], NHYD=["SWMF3"], DT=[1](min), AREA=[1.21](ha),
                    XIMP=[0.50], TIMP=[0.50], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[74],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2.0](%),
                                         LGP=[40](m), MNP=[0.25], SCP=[0](min),
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[90](m), MNI=[0.013], SCI=[0](min),
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["P3IN"], IDs to add=[7+8]
*#----------------|-------------------------------------------------------------|
*#----------------|-------------------------------------------------------------|
*#----------------|---------------- SWM Facility #3 ---------------------------|
*#----------------|-------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[7],   NHYD=["P#3Out"],  IDin=[9],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                      [  0.0 , 0.0  ]
                                      [ 0.007 , 0.036]
                                      [ 0.013 , 0.075]
                                      [ 0.016 , 0.107]
                                      [ 0.017 , 0.115]
                                      [ 0.023 , 0.202]
                                      [ 0.027 , 0.272]
                                      [ 0.030 , 0.348]
                                      [ 0.035 , 0.517]
                                      [ 0.040 , 0.709]
                                      [ 0.045 , 0.922]
                                      [ 1.247 , 1.155]
                                      [   -1  ,  -1  ]  (max twenty pts)
                          IDovf=[8], NHYDovf=["P#2Over"]
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[9], NHYD=["Foley Drain"], IDs to add=[4+5+7+8]
*#----------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["Ext 4"], DT=[1]min, AREA=[6.3](ha),
                    DWF=[0](cms),  CN/C=[64.8], IA=[10](mm),
                    N=[3], TP=[0.64]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Pt of IntF"], IDs to add=[9+4]
*#----------------|-------------------------------------------------------------|
ADD HYD             IDsum=[10], NHYD=["Pt of IntT"], IDs to add=[1+2+3+6]
*#----------------|-------------------------------------------------------------|
*#----------------|-------------------------------------------------------------|
FINISH
```

POST-DEVELOPMENT - OUTPUT FILE


```
00001>  ==============================================================================
00002>
00003>  SSSSS   W   W   M   M   H   H   Y   Y   M   M    OOO          222     000    11   77777 ========
00004>  S       W W W   MM MM   H   H     Y Y     MM MM   O   O          2     0   0   11     7   7
00005>  SSSSS   W W W   M M M   HHHHH      Y      M M M   O   O        2      0   0   11         7 Ver4.05.0
00006>      S   W W W   M   M   H   H      Y      M   M   O   O      222    0   0   11         7  APR 2017
00007>  SSSSS    W W    M   M   H   H      Y      M   M    OOO      2       0   0   11     7   ========
00008>                                                              2       0   0   11     7   # 3737016
00009>         StormWater Management HYdrologic Model                222     000    11     7   ========
00010>
00011>  ******************************************************************************
00012>  *************************************  SWMHYMO Ver4.05.0  *******************************
00013>  ******************  A single event and continuous hydrologic simulation model  ******************
00014>  ******************      based on the principles of HYMO and its successors     ******************
00015>  ******************              OTTHYMO-83 and OTTHYMO-89.                     ******************
00016>  ******************************************************************************
00017>  ****************** Distributed by:  J.F. Sabourin and Associates Inc.          ******************
00018>  ******************                  Ottawa,  Ontario: (613) 836-3884             ******************
00019>  ******************                  Gatineau, Quebec: (819) 243-6858             ******************
00020>  ******************                  E-Mail: swmhymo@jfsa.com                     ******************
00021>  ******************************************************************************
00022>
00023>  ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00024>  ++++++++++++++++++ Licensed user: C.F. Crozier & Associates Inc.                  ++++++++++++++++++
00025>  ++++++++++++++++++                 Collingwood          SERIAL#:3737016            ++++++++++++++++++
00026>  ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00027>
00028>  ******************************************************************************
00029>  ******************          ++++++ PROGRAM ARRAY DIMENSIONS ++++++            ******************
00030>  ******************           Maximum value for ID numbers  :    11             ******************
00031>  ******************           Max. number of rainfall points: 105408            ******************
00032>  ******************           Max. number of flow points   : 105408             ******************
00033>  ******************************************************************************
00034>
00035>
00036>  ******************************   S U M M A R Y   O U T P U T   ******************************
00037>  ******************************************************************************
00038>  *                 RUN DATE: 2020-01-17      TIME: 15:23:50     RUN COUNTER: 000001                *
00039>  ******************************************************************************
00040>  * Input   file: C:\SWMHYMO\Projects\1060-5384\Z3COM.dat                                          *
00041>  * Output  file: C:\SWMHYMO\Projects\1060-5384\Z3COM.out                                          *
00042>  * Summary file: C:\SWMHYMO\Projects\1060-5384\Z3COM.sum                                          *
00043>  * User comments:                                                                                 *
00044>  * 1:_____________________________________________________________________________________________*
00045>  * 2:_____________________________________________________________________________________________*
00046>  * 3:_____________________________________________________________________________________________*
00047>  ******************************************************************************
00048>
00049>
00050>  *************************************************************************
00051>  *  Project Name: [Dundalk Meadows Phase 7 & 8]      Project Number: [1060-5177]
00052>  *  Date        : 2020.01.13
00053>  *  Modeller    : [H.Birrell]
00054>  *  Company     : C.F. Crozier & Associates Inc.
00055>  *  License #   :  3737016
00056>  *************************************************************************
00057>   RUN#:COMMAND#
00058>  R0001:C00001-----------------------------------------------------------------------------------
00059>        START
00060>        [TZERO =    .00 hrs on         0]
00061>        [METOUT=   2    (1=imperial, 2=metric output)]
00062>        [NSTORM=   0 ]
00063>        [NRUN  = 0001 ]
00064>  #----------------|------------ POST DEVELOPMENT MODEL-------------------------|
00065>  #----------------|-----------------------------------------------------------|
00066>  #                |                2222    5555    M   M    M   M               |
00067>  #                |                   2    5       MM MM    MM MM               |
00068>  #                |                2222    5555    M M M    M M M               |
00069>  #                |                2       5    M   M    M   M                  |
00070>  #                |                2222    5555    M   M    M   M               |
00071>  #----------------|-----------------------------------------------------------|
00072>  #----------------|-----------------------------------------------------------|
00073>  R0001:C00002-----------------------------------------------------------------------------------
00074>        READ STORM
00075>        Filename = 25mm.stm
00076>        Comment  = 25 mm Event
00077>        [SDT= 4.80:SDUR=   3.04:PTOT=  25.05]
00078>  #----------------|-----------------------------------------------------------|
00079>  #----------------|-----------------------------------------------------------|
00080>  #                |                                                           |
00081>  #                |                   Controlled Runoff From ZONE 1           |
00082>  #                |                                                           |
00083>  #----------------|-----------------------------------------------------------|
00084>  #                |                                                           |
00085>  #----------------|--------------- SWM Facility #1 Area ----------------------|
00086>  #----------------|------------------- West Site Area -----------------------|
00087>  #----------------|-----------------------------------------------------------|
00088>  R0001:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00089>      CALIB NASHYD          1.2 01:Ext 5          .97     .011 No_date   1:20    4.52 .180    .000
00090>        [CN= 77.7: N= 3.00: Tp=  .26]
00091>  #----------------|-----------------------------------------------------------|
00092>  R0001:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00093>      CALIB STANDHYD        1.2 02:FB Z1-1       12.37     .491 No_date   1:03   10.70 .427    .000
00094>        [XIMP=.30:TIMP=.50]
00095>        [LOSS= 2 :CN= 74.0]
00096>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00097>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
00098>  #----------------|-----------------------------------------------------------|
00099>  R0001:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00100>      CALIB STANDHYD        1.2 03:FB Z1-3         .98     .054 No_date   0:58   10.70 .427    .000
00101>        [XIMP=.30:TIMP=.50]
00102>        [LOSS= 2 :CN= 74.0]
00103>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00104>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
00105>  #----------------|-----------------------------------------------------------|
00106>  R0001:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00107>      CALIB STANDHYD        1.2 04:SWMF#1         1.90     .161 No_date   0:58   13.36 .534    .000
00108>        [XIMP=.50:TIMP=.50]
00109>        [LOSS= 2 :CN= 74.0]
00110>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00111>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
00112>  #----------------|-----------------------------------------------------------|
00113>  R0001:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00114>      ADD HYD               1.2 01:Ext 5          .97     .011 No_date   1:20    4.52  n/a     .000
00115>                          +     1.2 02:FB Z1-1    12.37     .491 No_date   1:03   10.70  n/a     .000
00116>                          +     1.2 03:FB Z1-3      .98     .054 No_date   0:58   10.70  n/a     .000
00117>                          +     1.2 04:SWMF#1      1.90     .161 No_date   0:58   13.36  n/a     .000
00118>                        SUM=    1.2 05:P#1 IN     16.22     .664 No_date   1:02   10.65  n/a     .000
00119>  #----------------|-----------------------------------------------------------|
00120>  #----------------|--------------- SWM Facility #1 ----------------------------|
00121>  #----------------|-----------------------------------------------------------|
00122>  R0001:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00123>      ROUTE RESERVOIR ->    1.2 05:P#1 IN     16.22     .664 No_date   1:02   10.65  n/a     .000
00124>                    out <=  1.2 01:P#1Out     16.22     .013 No_date   3:37   10.65  n/a     .000
00125>                 overflow <= 1.2 02:P#1Over      .00     .000 No_date   0:00     .00  n/a     .000
00126>       (MxStoUsed=.1602E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
00127>  #----------------|-----------------------------------------------------------|
00128>  #----------------|-----------------------------------------------------------|
00129>  #                |                                                           |
00130>  #                |                   Watercourse Flows- ZONE 1               |
00131>  #                |                                                           |
00132>  #----------------|-----------------------------------------------------------|
00133>  #----------------|-----------------------------------------------------------|
00134>  #----------------|------------- West Watercourse Area ----------------------|
00135>  #----------------|------------- Small Unnmaed Tributary ---------------------|
00136>  #----------------|-----------------------------------------------------------|
00137>  R0001:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00138>      CALIB NASHYD          1.2 03:Ext 1          41.20     .212 No_date   1:50    3.33 .133    .000
00139>        [CN= 74.1: N= 3.00: Tp=  .57]
00140>  #----------------|-----------------------------------------------------------|
00141>  R0001:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00142>      ROUTE CHANNEL   ->    1.2 03:Ext 1          41.20     .212 No_date   1:50    3.33  n/a     .000
00143>        [RDT= 1.20] out<-   1.2 04:SiteLag       41.20     .202 No_date   2:02    3.33  n/a     .000
00144>        [L/S/n=  425./ .960/.035]
00145>        (Vmax=  .574:Dmax=  .176)
00146>  R0001:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00147>      CALIB NASHYD          1.2 05:FB Z1-2         5.68     .040 No_date   1:36    3.68 .147    .000
00148>        [CN= 77.0: N= 3.00: Tp=  .40]
00149>  #----------------|-----------------------------------------------------------|
00150>  #----------------|------- Total Flow at South Property Line ----------------|
00151>  #----------------|-----------------------------------------------------------|
00152>  R0001:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00153>      ADD HYD               1.2 01:P#1Out         16.22     .013 No_date   3:37   10.65  n/a     .000
00154>                          +     1.2 02:P#1Over      .00     .000 No_date   0:00     .00  n/a     .000
00155>                          +     1.2 04:SiteLag    41.20     .202 No_date   2:02    3.33  n/a     .000
00156>                          +     1.2 05:FB Z1-2     5.68     .040 No_date   1:36    3.68  n/a     .000
00157>                        SUM=    1.2 03:UnC PL     63.10     .244 No_date   1:58    5.24  n/a     .000
00158>  #----------------|-----------------------------------------------------------|
00159>  R0001:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00160>      ROUTE CHANNEL   ->    1.2 03:UnC PL     63.10     .244 No_date   1:58    5.24  n/a     .000
00161>        [RDT= 1.20] out<-   1.2 01:DS Lag     63.10     .243 No_date   2:02    5.24  n/a     .000
00162>        [L/S/n=  150./ .960/.035]
00163>        (Vmax=  .595:Dmax=  .189)
00164>  #----------------|-----------------------------------------------------------|
00165>  R0001:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00166>      CALIB NASHYD          1.2 02:Ext 3          1.55     .003 No_date   1:50    1.23 .049    .000
00167>        [CN= 60.0: N= 3.00: Tp=  .47]
00168>  #----------------|-----------------------------------------------------------|
00169>  #----------------|-----------------------------------------------------------|
00170>  #                |                                                           |
00171>  #                |                   Controlled Runoff From ZONE 2           |
00172>  #                |                                                           |
00173>  #----------------|-----------------------------------------------------------|
00174>  #----------------|-----------------------------------------------------------|
00175>  R0001:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00176>      CALIB STANDHYD        1.2 03:FB1           14.70     .664 No_date   1:03   11.70 .467    .000
00177>        [XIMP=.35:TIMP=.55]
00178>        [LOSS= 2 :CN= 74.0]
00179>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00180>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
00181>  #----------------|-----------------------------------------------------------|
00182>  R0001:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00183>      CALIB STANDHYD        1.2 04:MINOR          .21     .027 No_date   0:57   15.50 .619    .000
00184>        [XIMP=.61:TIMP=.61]
00185>        [LOSS= 2 :CN= 74.0]
00186>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00187>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
00188>  #----------------|-----------------------------------------------------------|
00189>  R0001:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00190>      DIVERT HYD      ->    1.2 04:MINOR          .21     .027 No_date   0:57   15.50  n/a     .000
00191>                diverted <=   1.2 05:MINOR          .21     .027 No_date   0:57   15.50  n/a     .000
00192>                diverted <=   1.2 06:MAJOR          .00     .000 No_date   0:00     .00  n/a     .000
00193>  #----------------|-----------------------------------------------------------|
00194>  R0001:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00195>      CALIB STANDHYD        1.2 04:FB1-A          .33     .006 No_date   1:16    6.48 .259    .000
00196>        [XIMP=.01:TIMP=.39]
00197>        [LOSS= 2 :CN= 74.0]
00198>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00199>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
00200>  #----------------|-----------------------------------------------------------|
00201>  R0001:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00202>      CALIB STANDHYD        1.2 07:SWMF#2         1.11     .101 No_date   0:58   13.56 .541    .000
00203>        [XIMP=.51:TIMP=.51]
00204>        [LOSS= 2 :CN= 74.0]
00205>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00206>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
00207>  #----------------|-----------------------------------------------------------|
00208>  #----------------|--------------- SWM Facility #2 ----------------------------|
00209>  R0001:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00210>      ADD HYD               1.2 03:FB1           14.70     .664 No_date   1:03   11.70  n/a     .000
00211>                          +     1.2 05:MINOR        .21     .027 No_date   0:57   15.50  n/a     .000
00212>                          +     1.2 04:FB1-A        .33     .006 No_date   1:16    6.48  n/a     .000
00213>                          +     1.2 07:SWMF#2      1.11     .101 No_date   0:58   13.56  n/a     .000
00214>                        SUM=    1.2 08:P#2 In     16.35     .755 No_date   1:02   11.77  n/a     .000
00215>  #----------------|-----------------------------------------------------------|
00216>  #----------------|--------------- SWM Facility #2 ----------------------------|
00217>  #----------------|-----------------------------------------------------------|
00218>  R0001:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00219>      ROUTE RESERVOIR ->    1.2 08:P#2 In     16.35     .755 No_date   1:02   11.77  n/a     .000
00220>                    out <=  1.2 03:P#2Out     16.35     .031 No_date   3:18   11.77  n/a     .000
00221>                 overflow <= 1.2 04:P#2Over      .00     .000 No_date   0:00     .00  n/a     .000
00222>       (MxStoUsed=.1664E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
00223>  #----------------|-----------------------------------------------------------|
00224>  R0001:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00225>      ADD HYD               1.2 03:P#2Out         16.35     .031 No_date   3:18   11.77  n/a     .000
00226>                          +     1.2 04:P#2Over      .00     .000 No_date   0:00     .00  n/a     .000
00227>                        SUM=    1.2 05:P#2 Out    16.35     .031 No_date   3:18   11.77  n/a     .000
00228>  #----------------|-----------------------------------------------------------|
00229>  R0001:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00230>      DIVERT HYD      ->    1.2 05:P#2 Out        16.35     .031 No_date   3:18   11.77  n/a     .000
00231>                diverted <=   1.2 03:PTwoW          .00     .000 No_date   0:00     .00  n/a     .000
00232>                diverted <=   1.2 04:PTwoE        15.20     .030 No_date   3:18   11.77  n/a     .000
00233>  #----------------|-----------------------------------------------------------|
00234>  #                |                                                           |
00235>  #                |                   Watercourse Flows- ZONE 2               |
00236>  #                |                                                           |
00237>  #----------------|-----------------------------------------------------------|
00238>  #----------------|-----------------------------------------------------------|
00239>  #----------------|------------- East Watercourse Area ----------------------|
00240>  #----------------|------------------ Foley Drain -------------------------|
00241>  #----------------|-----------------------------------------------------------|
00242>  R0001:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00243>      CALIB NASHYD          1.2 05:Ext-2         417.20     .877 No_date   3:36    2.93 .117    .000
00244>        [CN= 74.7: N= 3.00: Tp= 1.87]
00245>  #----------------|-----------------------------------------------------------|
00246>  R0001:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00247>      CALIB NASHYD          1.2 07:NAT            6.51     .053 No_date   1:31    4.06 .162    .000
00248>        [CN= 79.1: N= 3.00: Tp=  .36]
00249>  #----------------|-----------------------------------------------------------|
00250>  R0001:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00251>      ADD HYD               1.2 05:Ext-2         417.20     .877 No_date   3:36    2.93  n/a     .000
00252>                          +     1.2 07:NAT            6.51     .053 No_date   1:31    4.06  n/a     .000
00253>                        SUM=    1.2 08:PIn        423.71     .883 No_date   3:33    2.94  n/a     .000
00254>  #----------------|-----------------------------------------------------------|
00255>  R0001:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00256>      ROUTE CHANNEL   ->    1.2 08:PIn        423.71     .883 No_date   3:33    2.94  n/a     .000
00257>        [RDT= 1.20] out<-   1.2 05:SiteLag    423.71     .877 No_date   3:43    2.94  n/a     .000
00258>        [L/S/n=  550./ .650/.035]
00259>        (Vmax=  .823:Dmax=  .649)
00260>  #----------------|-----------------------------------------------------------|
00261>  #----------------|-----------------------------------------------------------|
00262>  #                |                                                           |
00263>  #                |                   Controlled Runoff From ZONE 3           |
00264>  #                |                                                           |
00265>  #----------------|-----------------------------------------------------------|
00266>  #----------------|-----------------------------------------------------------|
00267>  R0001:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00268>      CALIB STANDHYD        1.2 07:FB2           10.10     .461 No_date   1:02   11.76 .470    .000
00269>        [XIMP=.32:TIMP=.59]
00270>        [LOSS= 2 :CN= 74.0]
00271>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00272>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
00273>  #----------------|-----------------------------------------------------------|
00274>  R0001:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00275>      CALIB STANDHYD        1.2 08:SWMF3          1.21     .107 No_date   0:58   13.36 .534    .000
00276>        [XIMP=.50:TIMP=.50]
00277>        [LOSS= 2 :CN= 74.0]
00278>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00279>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
00280>  #----------------|-----------------------------------------------------------|
00281>  R0001:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00282>      ADD HYD               1.2 07:FB2           10.10     .461 No_date   1:02   11.76  n/a     .000
00283>                          +     1.2 08:SWMF3          1.21     .107 No_date   0:58   13.36  n/a     .000
00284>                        SUM=    1.2 09:P3IN       11.31     .547 No_date   1:01   11.93  n/a     .000
00285>  #----------------|-----------------------------------------------------------|
00286>  #----------------|-----------------------------------------------------------|
00287>  #----------------|--------------- SWM Facility #3 ----------------------------|
00288>  #----------------|-----------------------------------------------------------|
00289>  R0001:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00290>      ROUTE RESERVOIR ->    1.2 09:P3IN       11.31     .547 No_date   1:01   11.93  n/a     .000
00291>                    out <=  1.2 07:P#3Out     11.31     .017 No_date   3:21   11.93  n/a     .000
00292>                 overflow <= 1.2 08:P#2Over      .00     .000 No_date   0:00     .00  n/a     .000
00293>       (MxStoUsed=.1202E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
00294>  #----------------|-----------------------------------------------------------|
00295>  R0001:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00296>      ADD HYD               1.2 04:PTwoE         15.20     .030 No_date   3:18   11.77  n/a     .000
00297>                          +     1.2 05:SiteLag    423.71     .877 No_date   3:43    2.94  n/a     .000
00298>                          +     1.2 07:P#3Out      11.31     .017 No_date   3:21   11.93  n/a     .000
00299>                          +     1.2 08:P#2Over      .00     .000 No_date   0:00     .00  n/a     .000
00300>                        SUM=    1.2 09:Foley Drai 450.22     .924 No_date   3:43    3.47  n/a     .000
00301>  #----------------|-----------------------------------------------------------|
00302>  R0001:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00303>      CALIB NASHYD          1.2 04:Ext 4          6.30     .012 No_date   2:07    1.48 .059    .000
00304>        [CN= 64.8: N= 3.00: Tp=  .64]
00305>  #----------------|-----------------------------------------------------------|
00306>  R0001:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00307>      ADD HYD               1.2 09:Foley Drai 450.22     .924 No_date   3:43    3.47  n/a     .000
00308>                          +     1.2 04:Ext 4          6.30     .012 No_date   2:07    1.48  n/a     .000
00309>                        SUM=    1.2 05:Pt of IntF 456.52     .929 No_date   3:42    3.44  n/a     .000
00310>  #----------------|-----------------------------------------------------------|
00311>  R0001:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00312>      ADD HYD               1.2 01:DS Lag        63.10     .243 No_date   2:02    5.24  n/a     .000
00313>                          +     1.2 02:Ext 3          1.55     .003 No_date   1:50    1.23  n/a     .000
00314>                          +     1.2 03:PTwoW         .00     .000 No_date   0:00     .00  n/a     .000
00315>                          +     1.2 06:MAJOR         .00     .000 No_date   0:00     .00  n/a     .000
00316>                        SUM=    1.2 10:Pt of IntT    64.65     .246 No_date   2:02    5.15  n/a     .000
00317>  #----------------|-----------------------------------------------------------|
00318>  #----------------|-----------------------------------------------------------|
00319>  #                |                2222   Y   Y  RRRR       CCCC  H   H  IIIII  |
00320>  #                |                   2   Y Y   R   R     C      H   H    I    |
00321>  #                |                2222     Y    RRRR     C      HHHHH    I    |
00322>  #                |                2        Y    R  R     C      H   H    I    |
00323>  #                |                2222     Y    R   R     CCCC  H   H  IIIII  |
00324>  #----------------|-----------------------------------------------------------|
00325>  ******************************************************************************
00326>  #                |                  2-YEAR, 3 HOUR CHICAGO STORM               |
00327>  ******************************************************************************
00328>  #----------------|-----------------------------------------------------------|
00329>  R0001:C00036-----------------------------------------------------------------------------------
00330>        CHICAGO STORM
00331>        [SDT= 5.00:SDUR=   3.00:PTOT=  29.91]
00332>        (A/B/C= 424.014/   1.500/    .721: R=.9997)
00333>  #----------------|-----------------------------------------------------------|
00334>  #----------------|-----------------------------------------------------------|
00335>  #                |                                                           |
00336>  #                |                   Controlled Runoff From ZONE 1           |
00337>  #                |                                                           |
00338>  #----------------|-----------------------------------------------------------|
00339>  #                |                                                           |
00340>  #----------------|--------------- SWM Facility #1 Area ----------------------|
00341>  #----------------|------------------- West Site Area -----------------------|
00342>  #----------------|-----------------------------------------------------------|
00343>  R0001:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00344>      CALIB NASHYD          1.0 01:Ext 5          .97     .016 No_date   1:21    6.57 .220    .000
00345>        [CN= 77.7: N= 3.00: Tp=  .26]
00346>  #----------------|-----------------------------------------------------------|
00347>  R0001:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00348>      CALIB STANDHYD        1.0 02:FB Z1-1       12.37     .670 No_date   1:04   13.76 .460    .000
00349>        [XIMP=.30:TIMP=.50]
00350>        [LOSS= 2 :CN= 74.0]
00351>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00352>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
00353>  #----------------|-----------------------------------------------------------|
00354>  R0001:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00355>      CALIB STANDHYD        1.0 03:FB Z1-3         .98     .075 No_date   1:01   13.76 .460    .000
00356>        [XIMP=.30:TIMP=.50]
```

```
00357>       [LOSS= 2 :CN= 74.0]
00358>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00359>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
00360> #-----------------|-------------------------------------------------------------|
00361> R0001:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00362>     CALIB STANDHYD          1.0 04:SWMF#1          1.90     .223 No_date   1:01   16.67 .557     .000
00363>       [XIMP=.50:TIMP=.50]
00364>       [LOSS= 2 :CN= 74.0]
00365>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00366>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
00367> #-----------------|-------------------------------------------------------------|
00368> R0001:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00369>     ADD HYD                 1.0 01:Ext 5           .97     .016 No_date   1:21    6.57  n/a     .000
00370>                       +     1.0 03:FB Z1-1       12.37     .670 No_date   1:04   13.76  n/a     .000
00371>                       +     1.0 03:FB Z1-3        .98     .075 No_date   1:01   13.76  n/a     .000
00372>                       +     1.0 04:SWMF#1         1.90     .223 No_date   1:01   16.67  n/a     .000
00373>                     SUM=    1.0 05:P#1 IN        16.22     .906 No_date   1:02   13.67  n/a     .000
00374> #-----------------|-------------------------------------------------------------|
00375> #-----------------|---------------- SWM Facility #1 ----------------------------|
00376> #-----------------|-------------------------------------------------------------|
00377> R0001:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00378>     ROUTE RESERVOIR ->      1.0 05:P#1 IN        16.22     .906 No_date   1:02   13.67  n/a     .000
00379>                   out <=    1.0 01:P#1Out        16.22     .014 No_date   3:37   13.67  n/a     .000
00380>             overflow <=     1.0 02:P#1Over         .00     .000 No_date   0:00     .00  n/a     .000
00381>       (MxStoUsed=.2081E+00  m3, TotOrfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
00382> #-----------------|-------------------------------------------------------------|
00383> #-----------------|-------------------------------------------------------------|
00384> #                 |                                                             |
00385> #                 |                      Watercourse Flows- ZONE 1              |
00386> #-----------------|-------------------------------------------------------------|
00387> #-----------------|-------------------------------------------------------------|
00388> #-----------------|-------------------------------------------------------------|
00389> #-----------------|-------------- West Watercourse Area -------------------------|
00390> #-----------------|-------------- Small Unnmaed Tributary ----------------------|
00391> #-----------------|-------------------------------------------------------------|
00392> R0001:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00393>     CALIB NASHYD            1.0 03:Ext 1         41.20     .306 No_date   1:52    5.03 .168     .000
00394>       [CN= 74.1: N= 3.00: Tp=  .57]
00395> #-----------------|-------------------------------------------------------------|
00396> R0001:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00397>     ROUTE CHANNEL   ->      1.0 03:Ext 1         41.20     .306 No_date   1:52    5.03  n/a     .000
00398>      [RDT= 1.00] out<-      1.0 04:SiteLag       41.20     .295 No_date   2:02    5.03  n/a     .000
00399>       [L/S/n=  425./ .960/.035]
00400>       (Vmax=  .638:Dmax=  .213)
00401> R0001:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00402>     CALIB NASHYD            1.0 05:FB Z1-2        5.68     .057 No_date   1:36    5.56 .186     .000
00403>       [CN= 77.0: N= 3.00: Tp=  .40]
00404> #-----------------|-------------------------------------------------------------|
00405> #-----------------|-------- Total Flow at South Property Line -----------------|
00406> #-----------------|-------------------------------------------------------------|
00407> R0001:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00408>     ADD HYD                 1.0 01:P#1Out        16.22     .014 No_date   3:37   13.67  n/a     .000
00409>                       +     1.0 02:P#1Over         .00     .000 No_date   0:00     .00  n/a     .000
00410>                       +     1.0 04:SiteLag       41.20     .295 No_date   2:02    5.03  n/a     .000
00411>                       +     1.0 05:FB Z1-2        5.68     .057 No_date   1:36    5.56  n/a     .000
00412>                     SUM=    1.0 03:UnC PL        63.10     .353 No_date   1:59    7.30  n/a     .000
00413> #-----------------|-------------------------------------------------------------|
00414> R0001:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00415>     ROUTE CHANNEL   ->      1.0 03:UnC PL        63.10     .353 No_date   1:59    7.30  n/a     .000
00416>      [RDT= 1.00] out<-      1.0 01:DS Lag        63.10     .352 No_date   2:03    7.30  n/a     .000
00417>       [L/S/n=  150./ .960/.035]
00418>       (Vmax=  .652:Dmax=  .226)
00419> #-----------------|-------------------------------------------------------------|
00420> R0001:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00421>     CALIB NASHYD            1.0 02:Ext 3          1.55     .005 No_date   1:51    2.09 .070     .000
00422>       [CN= 60.0: N= 3.00: Tp=  .47]
00423> #-----------------|-------------------------------------------------------------|
00424> #-----------------|-------------------------------------------------------------|
00425> #                 |                                                             |
00426> #                 |                      Controlled Runoff From ZONE 2          |
00427> #                 |                                                             |
00428> #-----------------|-------------------------------------------------------------|
00429> #-----------------|-------------------------------------------------------------|
00430> R0001:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00431>     CALIB STANDHYD          1.0 03:FB1           14.70     .903 No_date   1:04   14.92 .499     .000
00432>       [XIMP=.35:TIMP=.55]
00433>       [LOSS= 2 :CN= 74.0]
00434>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00435>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
00436> #-----------------|-------------------------------------------------------------|
00437> R0001:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00438>     CALIB STANDHYD          1.0 04:MINOR           .21     .037 No_date   1:00   19.14 .640     .000
00439>       [XIMP=.61:TIMP=.61]
00440>       [LOSS= 2 :CN= 74.0]
00441>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00442>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
00443> #-----------------|-------------------------------------------------------------|
00444> R0001:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00445>     DIVERT HYD      ->      1.0 04:MINOR           .21     .037 No_date   1:00   19.14  n/a     .000
00446>             diverted <=     1.0 05:MINOR           .21     .035 No_date   1:00   19.14  n/a     .000
00447>             diverted <=     1.0 06:MAJOR           .00     .002 No_date   1:00   19.14  n/a     .000
00448> #-----------------|-------------------------------------------------------------|
00449> R0001:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00450>     CALIB STANDHYD          1.0 04:FB1-A           .33     .008 No_date   1:13    9.04 .302     .000
00451>       [XIMP=.01:TIMP=.39]
00452>       [LOSS= 2 :CN= 74.0]
00453>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00454>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
00455> #-----------------|-------------------------------------------------------------|
00456> R0001:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00457>     CALIB STANDHYD          1.0 07:SWMF#2          1.11     .139 No_date   1:01   16.90 .565     .000
00458>       [XIMP=.51:TIMP=.51]
00459>       [LOSS= 2 :CN= 74.0]
00460>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00461>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
00462> #-----------------|-------------------------------------------------------------|
00463> #-----------------|-------------------------------------------------------------|
00464> R0001:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00465>     ADD HYD                 1.0 03:FB1           14.70     .903 No_date   1:04   14.92  n/a     .000
00466>                       +     1.0 05:MINOR           .21     .035 No_date   1:00   19.14  n/a     .000
00467>                       +     1.0 04:FB1-A           .33     .008 No_date   1:13    9.04  n/a     .000
00468>                       +     1.0 07:SWMF#2         1.11     .139 No_date   1:01   16.90  n/a     .000
00469>                     SUM=    1.0 08:P#2 In        16.35    1.015 No_date   1:03   14.99  n/a     .000
00470> #-----------------|-------------------------------------------------------------|
00471> #-----------------|---------------- SWM Facility #2 ----------------------------|
00472> #-----------------|-------------------------------------------------------------|
00473> R0001:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00474>     ROUTE RESERVOIR ->      1.0 08:P#2 In        16.35    1.015 No_date   1:03   14.99  n/a     .000
00475>                   out <=    1.0 03:P#2Out        16.35     .038 No_date   3:19   14.99  n/a     .000
00476>             overflow <=     1.0 04:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
00477>       (MxStoUsed=.2148E+00  m3, TotOrfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
00478> #-----------------|-------------------------------------------------------------|
00479> R0001:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00480>     ADD HYD                 1.0 03:P#2Out        16.35     .038 No_date   3:19   14.99  n/a     .000
00481>                       +     1.0 04:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
00482>                     SUM=    1.0 05:P#2 Out       16.35     .038 No_date   3:19   14.99  n/a     .000
00483> #-----------------|-------------------------------------------------------------|
00484> R0001:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00485>     DIVERT HYD      ->      1.0 05:P#2 Out       16.35     .038 No_date   3:19   14.99  n/a     .000
00486>             diverted <=     1.0 03:PTwoW           .00     .000 No_date   0:00     .00  n/a     .000
00487>             diverted <=     1.0 04:PTwoE         15.51     .038 No_date   3:19   14.99  n/a     .000
00488> #-----------------|-------------------------------------------------------------|
00489> #-----------------|-------------------------------------------------------------|
00490> #                 |                                                             |
00491> #                 |                      Watercourse Flows- ZONE 2              |
00492> #-----------------|-------------------------------------------------------------|
00493> #-----------------|-------------------------------------------------------------|
00494> #-----------------|-------------- East Watercourse Area -------------------------|
00495> #-----------------|---------------       Foley Drain       ----------------------|
00496> #-----------------|-------------------------------------------------------------|
00497> R0001:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00498>     CALIB NASHYD            1.0 05:Ext-2         417.20    1.372 No_date   3:39    4.58 .153     .000
00499>       [CN= 74.7: N= 3.00: Tp= 1.87]
00500> #-----------------|-------------------------------------------------------------|
00501> R0001:C00059------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00502>     CALIB NASHYD            1.0 07:NAT             6.51     .077 No_date   1:32    6.10 .204     .000
00503>       [CN= 79.1: N= 3.00: Tp=  .36]
00504> #-----------------|-------------------------------------------------------------|
00505> R0001:C00060------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00506>     ADD HYD                 1.0 05:Ext-2         417.20    1.372 No_date   3:39    4.58  n/a     .000
00507>                       +     1.0 07:NAT             6.51     .077 No_date   1:32    6.10  n/a     .000
00508>                     SUM=    1.0 08:FIn           423.71    1.380 No_date   3:36    4.60  n/a     .000
00509> #-----------------|-------------------------------------------------------------|
00510> R0001:C00061------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00511>     ROUTE CHANNEL   ->      1.0 08:FIn           423.71    1.380 No_date   3:36    4.60  n/a     .000
00512>      [RDT= 1.00] out<-      1.0 05:SiteLag       423.71    1.372 No_date   3:45    4.60  n/a     .000
00513>       [L/S/n=  550./ .650/.035]
00514>       (Vmax=  .897:Dmax=  .780)
00515> #-----------------|-------------------------------------------------------------|
00516> #-----------------|-------------------------------------------------------------|
00517> #                 |                                                             |
00518> #                 |                      Controlled Runoff From ZONE 3          |
00519> #                 |                                                             |
00520> #-----------------|-------------------------------------------------------------|
00521> #-----------------|-------------------------------------------------------------|
00522> R0001:C00062------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00523>     CALIB STANDHYD          1.0 07:FB2           10.10     .639 No_date   1:03   15.06 .503     .000
00524>       [XIMP=.32:TIMP=.59]
00525>       [LOSS= 2 :CN= 74.0]
00526>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00527>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
00528> #-----------------|-------------------------------------------------------------|
00529> R0001:C00063------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00530>     CALIB STANDHYD          1.0 08:SWMF3           1.21     .148 No_date   1:01   16.67 .557     .000
00531>       [XIMP=.50:TIMP=.50]
00532>       [LOSS= 2 :CN= 74.0]
00533>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00534>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
00535> #-----------------|-------------------------------------------------------------|
00536> R0001:C00064------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00537>     ADD HYD                 1.0 07:FB2           10.10     .639 No_date   1:03   15.06  n/a     .000
00538>                       +     1.0 08:SWMF3           1.21     .148 No_date   1:01   16.67  n/a     .000
00539>                     SUM=    1.0 09:P3IN          11.31     .762 No_date   1:02   15.23  n/a     .000
00540> #-----------------|-------------------------------------------------------------|
00541> #-----------------|-------------------------------------------------------------|
00542> #-----------------|---------------- SWM Facility #3 ----------------------------|
00543> #-----------------|-------------------------------------------------------------|
00544> R0001:C00065------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00545>     ROUTE RESERVOIR ->      1.0 09:P3IN          11.31     .762 No_date   1:02   15.23  n/a     .000
00546>                   out <=    1.0 07:P#3Out        11.31     .020 No_date   3:22   15.23  n/a     .000
00547>             overflow <=     1.0 08:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
00548>       (MxStoUsed=.1556E+00  m3, TotOrfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
00549> #-----------------|-------------------------------------------------------------|
00550> R0001:C00066------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00551>     ADD HYD                 1.0 04:PTwoE          15.51     .038 No_date   3:19   14.99  n/a     .000
00552>                       +     1.0 05:SiteLag       423.71    1.372 No_date   3:45    4.60  n/a     .000
00553>                       +     1.0 07:P#3Out        11.31     .020 No_date   3:22   15.23  n/a     .000
00554>                       +     1.0 08:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
00555>                     SUM=    1.0 09:Foley Drai    450.53    1.429 No_date   3:45    5.22  n/a     .000
00556> #-----------------|-------------------------------------------------------------|
00557> R0001:C00067------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00558>     CALIB NASHYD            1.0 04:Ext 4           6.30     .020 No_date   2:10    2.51 .084     .000
00559>       [CN= 64.8: N= 3.00: Tp=  .64]
00560> #-----------------|-------------------------------------------------------------|
00561> R0001:C00068------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00562>     ADD HYD                 1.0 09:Foley Drai    450.53    1.429 No_date   3:45    5.22  n/a     .000
00563>                       +     1.0 04:Ext 4           6.30     .020 No_date   2:10    2.51  n/a     .000
00564>                     SUM=    1.0 05:Pt of IntF    456.83    1.437 No_date   3:43    5.19  n/a     .000
00565> #-----------------|-------------------------------------------------------------|
00566> R0001:C00069------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00567>     ADD HYD                 1.0 01:DS Lag         63.10     .352 No_date   2:03    7.30  n/a     .000
00568>                       +     1.0 02:Ext 3           1.55     .005 No_date   1:51    2.09  n/a     .000
00569>                       +     1.0 03:PTwoW            .00     .000 No_date   0:00     .00  n/a     .000
00570>                       +     1.0 06:MAJOR            .00     .002 No_date   1:00   19.14  n/a     .000
00571>                     SUM=    1.0 10:Pt of IntT    64.65     .356 No_date   2:03    7.18  n/a     .000
00572> #-----------------|-------------------------------------------------------------|
00573> #-----------------|-------------------------------------------------------------|
00574> #                 |  5555   Y   Y  RRRR      CCCC  H   H  IIIII                 |
00575> #                 |  5      Y Y    R   R     C      H   H    I                   |
00576> #                 |  5555     Y    RRRR      C      HHHHH    I                   |
00577> #                 |     5     Y    R  R      C      H   H    I                   |
00578> #                 |  5555     Y    R   R     CCCC   H   H  IIIII                 |
00579> #-----------------|-------------------------------------------------------------|
00580> #*****************************************************************************|
00581> #                 |                   5-YEAR, 3 HOUR CHICAGO STORM              |
00582> #*****************************************************************************|
00583> #-----------------|-------------------------------------------------------------|
00584> R0001:C00070------------------------------------------------------------------------------------------
00585>       CHICAGO STORM
00586>       [SDT= 5.00:SDUR=   3.00:PTOT=  40.44]
00587>       (A/B/C= 567.448/   1.500/    .719: R=.9997)
00588> #-----------------|-------------------------------------------------------------|
00589> #-----------------|-------------------------------------------------------------|
00590> #                 |                                                             |
00591> #                 |                      Controlled Runoff From ZONE 1          |
00592> #                 |                                                             |
00593> #-----------------|-------------------------------------------------------------|
00594> #                 |                                                             |
00595> #-----------------|---------------- SWM Facility #1 Area -----------------------|
00596> #-----------------|---------------- West Site Area -----------------------------|
00597> #-----------------|-------------------------------------------------------------|
00598> R0001:C00071------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00599>     CALIB NASHYD            1.0 01:Ext 5           .97     .030 No_date   1:20   11.87 .293     .000
00600>       [CN= 77.7: N= 3.00: Tp=  .26]
00601> #-----------------|-------------------------------------------------------------|
00602> R0001:C00072------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00603>     CALIB STANDHYD          1.0 02:FB Z1-1        12.37    1.034 No_date   1:03   20.99 .519     .000
00604>       [XIMP=.30:TIMP=.50]
00605>       [LOSS= 2 :CN= 74.0]
00606>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00607>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
00608> #-----------------|-------------------------------------------------------------|
00609> R0001:C00073------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00610>     CALIB STANDHYD          1.0 03:FB Z1-3         .98     .112 No_date   1:00   20.99 .519     .000
00611>       [XIMP=.30:TIMP=.50]
00612>       [LOSS= 2 :CN= 74.0]
00613>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00614>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
00615> #-----------------|-------------------------------------------------------------|
00616> R0001:C00074------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00617>     CALIB STANDHYD          1.0 04:SWMF#1          1.90     .312 No_date   1:01   24.26 .600     .000
00618>       [XIMP=.50:TIMP=.50]
00619>       [LOSS= 2 :CN= 74.0]
00620>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00621>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
00622> #-----------------|-------------------------------------------------------------|
00623> R0001:C00075------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00624>     ADD HYD                 1.0 01:Ext 5           .97     .030 No_date   1:20   11.87  n/a     .000
00625>                       +     1.0 02:FB Z1-1        12.37    1.034 No_date   1:03   20.99  n/a     .000
00626>                       +     1.0 03:FB Z1-3         .98     .112 No_date   1:00   20.99  n/a     .000
00627>                       +     1.0 04:SWMF#1          1.90     .312 No_date   1:01   24.26  n/a     .000
00628>                     SUM=    1.0 05:P#1 IN        16.22    1.394 No_date   1:02   20.83  n/a     .000
00629> #-----------------|-------------------------------------------------------------|
00630> #-----------------|---------------- SWM Facility #1 ----------------------------|
00631> #-----------------|-------------------------------------------------------------|
00632> R0001:C00076------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00633>     ROUTE RESERVOIR ->      1.0 05:P#1 IN        16.22    1.394 No_date   1:02   20.83  n/a     .000
00634>                   out <=    1.0 01:P#1Out        16.22     .017 No_date   3:33   20.83  n/a     .000
00635>             overflow <=     1.0 02:P#1Over         .00     .000 No_date   0:00     .00  n/a     .000
00636>       (MxStoUsed=.3218E+00  m3, TotOrfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
00637> #-----------------|-------------------------------------------------------------|
00638> #-----------------|-------------------------------------------------------------|
00639> #                 |                                                             |
00640> #                 |                      Watercourse Flows- ZONE 1              |
00641> #                 |                                                             |
00642> #-----------------|-------------------------------------------------------------|
00643> #-----------------|-------------------------------------------------------------|
00644> #-----------------|-------------- West Watercourse Area -------------------------|
00645> #-----------------|-------------- Small Unnmaed Tributary ----------------------|
00646> #-----------------|-------------------------------------------------------------|
00647> R0001:C00077------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00648>     CALIB NASHYD            1.0 03:Ext 1          41.20     .603 No_date   1:49    9.58 .237     .000
00649>       [CN= 74.1: N= 3.00: Tp=  .57]
00650> #-----------------|-------------------------------------------------------------|
00651> R0001:C00078------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00652>     ROUTE CHANNEL   ->      1.0 03:Ext 1          41.20     .603 No_date   1:49    9.58  n/a     .000
00653>      [RDT= 1.00] out<-      1.0 04:SiteLag        41.20     .582 No_date   1:59    9.58  n/a     .000
00654>       [L/S/n=  425./ .960/.035]
00655>       (Vmax=  .724:Dmax=  .285)
00656> R0001:C00079------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00657>     CALIB NASHYD            1.0 05:FB Z1-2         5.68     .114 No_date   1:34   10.54 .261     .000
00658>       [CN= 77.0: N= 3.00: Tp=  .40]
00659> #-----------------|-------------------------------------------------------------|
00660> #-----------------|-------- Total Flow at South Property Line -----------------|
00661> #-----------------|-------------------------------------------------------------|
00662> R0001:C00080------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00663>     ADD HYD                 1.0 01:P#1Out         16.22     .017 No_date   3:33   20.83  n/a     .000
00664>                       +     1.0 02:P#1Over         .00     .000 No_date   0:00     .00  n/a     .000
00665>                       +     1.0 04:SiteLag        41.20     .582 No_date   1:59    9.58  n/a     .000
00666>                       +     1.0 05:FB Z1-2         5.68     .114 No_date   1:34   10.54  n/a     .000
00667>                     SUM=    1.0 03:UnC PL         63.10     .688 No_date   1:56   12.56  n/a     .000
00668> #-----------------|-------------------------------------------------------------|
00669> R0001:C00081------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00670>     ROUTE CHANNEL   ->      1.0 03:UnC PL         63.10     .688 No_date   1:56   12.56  n/a     .000
00671>      [RDT= 1.00] out<-      1.0 01:DS Lag         63.10     .686 No_date   1:59   12.56  n/a     .000
00672>       [L/S/n=  150./ .960/.035]
00673>       (Vmax=  .745:Dmax=  .302)
00674> #-----------------|-------------------------------------------------------------|
00675> R0001:C00082------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00676>     CALIB NASHYD            1.0 02:Ext 3           1.55     .011 No_date   1:45    4.64 .115     .000
00677>       [CN= 60.0: N= 3.00: Tp=  .47]
00678> #-----------------|-------------------------------------------------------------|
00679> #-----------------|-------------------------------------------------------------|
00680> #                 |                                                             |
00681> #                 |                      Controlled Runoff From ZONE 2          |
00682> #                 |                                                             |
00683> #-----------------|-------------------------------------------------------------|
00684> #-----------------|-------------------------------------------------------------|
00685> R0001:C00083------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00686>     CALIB STANDHYD          1.0 03:FB1            14.70    1.385 No_date   1:03   22.46 .555     .000
00687>       [XIMP=.35:TIMP=.55]
00688>       [LOSS= 2 :CN= 74.0]
00689>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00690>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
00691> #-----------------|-------------------------------------------------------------|
00692> R0001:C00084------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00693>     CALIB STANDHYD          1.0 04:MINOR           .21     .051 No_date   1:00   27.38 .677     .000
00694>       [XIMP=.61:TIMP=.61]
00695>       [LOSS= 2 :CN= 74.0]
00696>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00697>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
00698> #-----------------|-------------------------------------------------------------|
00699> R0001:C00085------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00700>     DIVERT HYD      ->      1.0 04:MINOR           .21     .051 No_date   1:00   27.38  n/a     .000
00701>             diverted <=     1.0 05:MINOR           .20     .035 No_date   1:00   27.38  n/a     .000
00702>             diverted <=     1.0 06:MAJOR           .01     .016 No_date   1:00   27.38  n/a     .000
00703> #-----------------|-------------------------------------------------------------|
00704> R0001:C00086------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00705>     CALIB STANDHYD          1.0 04:FB1-A           .33     .018 No_date   1:10   15.42 .381     .000
00706>       [XIMP=.01:TIMP=.39]
00707>       [LOSS= 2 :CN= 74.0]
00708>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00709>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
00710> #-----------------|-------------------------------------------------------------|
00711> R0001:C00087------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00712>     CALIB STANDHYD          1.0 07:SWMF#2          1.11     .203 No_date   1:00   24.54 .607     .000
```

```
00713>       [XIMP=.51:TIMP=.51]
00714>       [LOSS= 2 :CN= 74.0]
00715>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00716>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
00717> #-----------------|-------------------------------------------------------------|
00718> #-----------------|-------------------------------------------------------------|
00719> R0001:C00088------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00720>     ADD HYD                1.0 03:FB1          14.70    1.385 No_date   1:03  22.46  n/a     .000
00721>                     +     1.0 05:MINOR          .20     .035 No_date   1:00  27.38  n/a     .000
00722>                     +     1.0 04:FB1-A          .33     .018 No_date   1:10  15.42  n/a     .000
00723>                     +     1.0 07:SWMF#2        1.11     .203 No_date   1:00  24.54  n/a     .000
00724>                   SUM=    1.0 08:P#2 In        16.34    1.541 No_date   1:03  22.52  n/a     .000
00725> #-----------------|-------------------------------------------------------------|
00726> #-----------------|------------------- SWM Facility #2 -------------------------|
00727> #-----------------|-------------------------------------------------------------|
00728> R0001:C00089------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00729>     ROUTE RESERVOIR ->     1.0 08:P#2 In        16.34    1.541 No_date   1:03  22.52  n/a     .000
00730>                   out <=   1.0 03:P#2Out        16.34     .079 No_date   3:10  22.51  n/a     .000
00731>            overflow <=     1.0 04:P#2Over        .00     .000 No_date   0:00    .00  n/a     .000
00732>       {MxStoUsed=.3188E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00733> #-----------------|-------------------------------------------------------------|
00734> R0001:C00090------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00735>     ADD HYD                1.0 03:P#2Out        16.34     .079 No_date   3:10  22.51  n/a     .000
00736>                     +     1.0 04:P#2Over        .00     .000 No_date   0:00    .00  n/a     .000
00737>                   SUM=    1.0 05:P#2 Out       16.34     .079 No_date   3:10  22.51  n/a     .000
00738> #-----------------|-------------------------------------------------------------|
00739> R0001:C00091------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00740>     DIVERT HYD         ->     1.0 05:P#2 Out       16.34     .079 No_date   3:10  22.51  n/a     .000
00741>                diverted <=     1.0 03:PTwoW          .68     .019 No_date   3:10  22.51  n/a     .000
00742>                diverted <=     1.0 04:PTwoE        15.15     .062 No_date   3:10  22.51  n/a     .000
00743> #-----------------|-------------------------------------------------------------|
00744> #-----------------|-------------------------------------------------------------|
00745> #-----------------|                   Watercourse Flows- ZONE 2                 |
00746> #-----------------|-------------------------------------------------------------|
00747> #-----------------|-------------------------------------------------------------|
00748> #-----------------|-------------------------------------------------------------|
00749> #-----------------|-------------- East Watercourse Area -------------------------|
00750> #-----------------|--------------      Foley Drain      -------------------------|
00751> #-----------------|-------------------------------------------------------------|
00752> R0001:C00092------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00753>     CALIB NASHYD           1.0 05:Ext-2        417.20    2.712 No_date   3:35   9.05  .224     .000
00754>       [CN= 74.7: N= 3.00: Tp= 1.87]
00755> #-----------------|-------------------------------------------------------------|
00756> R0001:C00093------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00757>     CALIB NASHYD           1.0 07:NAT            6.51     .153 No_date   1:30  11.46 .283     .000
00758>       [CN= 79.1: N= 3.00: Tp=  .36]
00759> #-----------------|-------------------------------------------------------------|
00760> R0001:C00094------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00761>     ADD HYD                1.0 05:Ext-2        417.20    2.712 No_date   3:35   9.05  n/a     .000
00762>                     +     1.0 07:NAT            6.51     .153 No_date   1:30  11.46  n/a     .000
00763>                   SUM=    1.0 08:FIn          423.71    2.729 No_date   3:32   9.09  n/a     .000
00764> #-----------------|-------------------------------------------------------------|
00765> R0001:C00095------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00766>     ROUTE CHANNEL    ->     1.0 08:FIn          423.71    2.729 No_date   3:32   9.09  n/a     .000
00767>       [RD7= 1.00] out<-    1.0 05:SiteLag      423.71    2.718 No_date   3:39   9.09  n/a     .000
00768>       [L/S/n=  550./ .650/.035]
00769>       {Vmax= 1.044:Dmax= 1.013}
00770> #-----------------|-------------------------------------------------------------|
00771> #-----------------|-------------------------------------------------------------|
00772> #-----------------|                                                             |
00773> #-----------------|                 Controlled Runoff From ZONE 3               |
00774> #-----------------|-------------------------------------------------------------|
00775> #-----------------|-------------------------------------------------------------|
00776> #-----------------|-------------------------------------------------------------|
00777> R0001:C00096------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00778>     CALIB STANDHYD         1.0 07:FB2           10.10     .964 No_date   1:03  22.77 .563     .000
00779>       [XIMP=.32:TIMP=.59]
00780>       [LOSS= 2 :CN= 74.0]
00781>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00782>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
00783> #-----------------|-------------------------------------------------------------|
00784> R0001:C00097------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00785>     CALIB STANDHYD         1.0 08:SWMF3          1.21     .206 No_date   1:01  24.26 .600     .000
00786>       [XIMP=.50:TIMP=.50]
00787>       [LOSS= 2 :CN= 74.0]
00788>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00789>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
00790> #-----------------|-------------------------------------------------------------|
00791> R0001:C00098------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00792>     ADD HYD                1.0 07:FB2           10.10     .964 No_date   1:03  22.77  n/a     .000
00793>                     +     1.0 08:SWMF3          1.21     .206 No_date   1:01  24.26  n/a     .000
00794>                   SUM=    1.0 09:P3IN          11.31    1.129 No_date   1:02  22.93  n/a     .000
00795> #-----------------|-------------------------------------------------------------|
00796> #-----------------|-------------------------------------------------------------|
00797> #-----------------|------------------- SWM Facility #3 -------------------------|
00798> #-----------------|-------------------------------------------------------------|
00799> R0001:C00099------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00800>     ROUTE RESERVOIR ->     1.0 09:P3IN          11.31    1.129 No_date   1:02  22.93  n/a     .000
00801>                   out <=   1.0 07:P#3Out        11.31     .025 No_date   3:20  22.93  n/a     .000
00802>            overflow <=     1.0 08:P#2Over        .00     .000 No_date   0:00    .00  n/a     .000
00803>       {MxStoUsed=.2387E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00804> #-----------------|-------------------------------------------------------------|
00805> R0001:C00100------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00806>     ADD HYD                1.0 04:PTwoE         15.15     .062 No_date   3:10  22.51  n/a     .000
00807>                     +     1.0 05:SiteLag      423.71    2.718 No_date   3:39   9.09  n/a     .000
00808>                     +     1.0 07:P#3Out        11.31     .025 No_date   3:20  22.93  n/a     .000
00809>                     +     1.0 08:P#2Over        .00     .000 No_date   0:00    .00  n/a     .000
00810>                   SUM=    1.0 09:Foley Drai   450.17    2.802 No_date   3:39   9.89  n/a     .000
00811> #-----------------|-------------------------------------------------------------|
00812> R0001:C00101------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00813>     CALIB NASHYD           1.0 04:Ext 4          6.30     .047 No_date   2:02   5.50 .136     .000
00814>       [CN= 64.8: N= 3.00: Tp=  .64]
00815> #-----------------|-------------------------------------------------------------|
00816> R0001:C00102------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00817>     ADD HYD                1.0 09:Foley Drai   450.17    2.802 No_date   3:39   9.89  n/a     .000
00818>                     +     1.0 04:Ext 4          6.30     .047 No_date   2:02   5.50  n/a     .000
00819>                   SUM=    1.0 05:Pt of IntF   456.47    2.821 No_date   3:37   9.83  n/a     .000
00820> #-----------------|-------------------------------------------------------------|
00821> R0001:C00103------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00822>     ADD HYD                1.0 01:DS Lag        63.10     .686 No_date   1:59  12.56  n/a     .000
00823>                     +     1.0 02:Ext 3          1.55     .011 No_date   1:45   4.64  n/a     .000
00824>                     +     1.0 03:PTwoW          .68     .019 No_date   3:10  22.51  n/a     .000
00825>                     +     1.0 06:MAJOR          .01     .016 No_date   1:00  27.38  n/a     .000
00826>                   SUM=    1.0 10:Pt of IntT     65.34     .700 No_date   1:59  12.48  n/a     .000
00827> #-----------------|-------------------------------------------------------------|
00828> #-----------------|-------------------------------------------------------------|
00829> #                  11   000   Y   Y  RRRR      CCCC  H   H  IIIII
00830> #                 1 1   0   0  Y Y  R   R    C      H   H    I
00831> #                 1   0   0   Y   RRRR    C      HHHHH    I
00832> #                 1   0   0   Y   R  R    C      H   H    I
00833> #                11111  000    Y   R   R     CCCC  H   H  IIIII
00834> #-----------------|-------------------------------------------------------------|
00835> ******************************************************************************
00836> *                          10-YEAR, 3 HOUR CHICAGO STORM
00837> ******************************************************************************
00838> #-----------------|-------------------------------------------------------------|
00839> R0001:C00104------------------------------------------------------------------------------------------
00840>       CHICAGO STORM
00841>       {SD7= 5.00:SDUR=   3.00:PTOT=  47.31}
00842>       {A/B/C= 663.823/   1.500/    .719: R=.9997}
00843> #-----------------|-------------------------------------------------------------|
00844> #-----------------|-------------------------------------------------------------|
00845> #-----------------|                                                             |
00846> #-----------------|                 Controlled Runoff From ZONE 1               |
00847> #-----------------|                                                             |
00848> #-----------------|-------------------------------------------------------------|
00849> #-----------------|-------------------------------------------------------------|
00850> #-----------------|------------------- SWM Facility #1 Area ----------------------|
00851> #-----------------|------------------- West Site Area ---------------------------|
00852> #-----------------|-------------------------------------------------------------|
00853> R0001:C00105------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00854>     CALIB NASHYD           1.0 01:Ext 5           .97     .041 No_date   1:19  15.84 .335     .000
00855>       [CN= 77.7: N= 3.00: Tp=  .26]
00856> #-----------------|-------------------------------------------------------------|
00857> R0001:C00106------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00858>     CALIB STANDHYD         1.0 02:FB Z1-1       12.37    1.297 No_date   1:03  26.05 .551     .000
00859>       [XIMP=.30:TIMP=.50]
00860>       [LOSS= 2 :CN= 74.0]
00861>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00862>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
00863> #-----------------|-------------------------------------------------------------|
00864> R0001:C00107------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00865>     CALIB STANDHYD         1.0 03:FB Z1-3         .98     .137 No_date   1:00  26.05 .551     .000
00866>       [XIMP=.30:TIMP=.50]
00867>       [LOSS= 2 :CN= 74.0]
00868>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00869>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
00870> #-----------------|-------------------------------------------------------------|
00871> R0001:C00108------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00872>     CALIB STANDHYD         1.0 04:SWMF#1         1.90     .375 No_date   1:01  29.46 .623     .000
00873>       [XIMP=.50:TIMP=.50]
00874>       [LOSS= 2 :CN= 74.0]
00875>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00876>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
00877> #-----------------|-------------------------------------------------------------|
00878> R0001:C00109------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00879>     ADD HYD                1.0 01:Ext 5           .97     .041 No_date   1:19  15.84  n/a     .000
00880>                     +     1.0 02:FB Z1-1       12.37    1.297 No_date   1:03  26.05  n/a     .000
00881>                     +     1.0 03:FB Z1-3         .98     .137 No_date   1:00  26.05  n/a     .000
00882>                     +     1.0 04:SWMF#1         1.90     .375 No_date   1:01  29.46  n/a     .000
00883>                   SUM=    1.0 05:P#1 IN        16.22    1.728 No_date   1:02  25.84  n/a     .000
00884> #-----------------|-------------------------------------------------------------|
00885> #-----------------|------------------- SWM Facility #1 -------------------------|
00886> #-----------------|-------------------------------------------------------------|
00887> R0001:C00110------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00888>     ROUTE RESERVOIR ->     1.0 05:P#1 IN        16.22    1.728 No_date   1:02  25.84  n/a     .000
00889>                   out <=   1.0 01:P#1Out        16.22     .018 No_date   3:32  25.84  n/a     .000
00890>            overflow <=     1.0 02:P#1Over        .00     .000 No_date   0:00    .00  n/a     .000
00891>       {MxStoUsed=.4021E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00892> #-----------------|-------------------------------------------------------------|
00893> #-----------------|-------------------------------------------------------------|
00894> #-----------------|                                                             |
00895> #-----------------|                   Watercourse Flows- ZONE 1                 |
00896> #-----------------|                                                             |
00897> #-----------------|-------------------------------------------------------------|
00898> #-----------------|-------------------------------------------------------------|
00899> #-----------------|-------------- West Watercourse Area ----------------------|
00900> #-----------------|-------------- Small Unnmaed Tributary -----------------------|
00901> #-----------------|-------------------------------------------------------------|
00902> R0001:C00111------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00903>     CALIB NASHYD           1.0 03:Ext 1          41.20     .836 No_date   1:48  13.07 .276     .000
00904>       [CN= 74.1: N= 3.00: Tp=  .57]
00905> #-----------------|-------------------------------------------------------------|
00906> R0001:C00112------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00907>     ROUTE CHANNEL    ->     1.0 03:Ext 1          41.20     .836 No_date   1:48  13.07  n/a     .000
00908>       [RD7= 1.00] out<-    1.0 04:SiteLag        41.20     .810 No_date   1:58  13.07  n/a     .000
00909>       [L/S/n=  425./ .960/.035]
00910>       {Vmax=  .767:Dmax=  .325}
00911> R0001:C00113------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00912>     CALIB NASHYD           1.0 05:FB Z1-2         5.68     .159 No_date   1:33  14.33 .303     .000
00913>       [CN= 77.0: N= 3.00: Tp=  .40]
00914> #-----------------|-------------------------------------------------------------|
00915> #-----------------|-------------- Total Flow at South Property Line -------------|
00916> #-----------------|-------------------------------------------------------------|
00917> R0001:C00114------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00918>     ADD HYD                1.0 01:P#1Out        16.22     .018 No_date   3:32  25.84  n/a     .000
00919>                     +     1.0 02:P#1Over        .00     .000 No_date   0:00    .00  n/a     .000
00920>                     +     1.0 04:SiteLag        41.20     .810 No_date   1:58  13.07  n/a     .000
00921>                     +     1.0 05:FB Z1-2         5.68     .159 No_date   1:33  14.33  n/a     .000
00922>                   SUM=    1.0 03:UnC PL         63.10     .952 No_date   1:54  16.46  n/a     .000
00923> #-----------------|-------------------------------------------------------------|
00924> R0001:C00115------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00925>     ROUTE CHANNEL    ->     1.0 03:UnC PL         63.10     .952 No_date   1:54  16.46  n/a     .000
00926>       [RD7= 1.00] out<-    1.0 01:DS Lag         63.10     .948 No_date   1:57  16.46  n/a     .000
00927>       [L/S/n=  150./ .960/.035]
00928>       {Vmax=  .774:Dmax=  .339}
00929> #-----------------|-------------------------------------------------------------|
00930> R0001:C00116------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00931>     CALIB NASHYD           1.0 02:Ext 3           1.55     .017 No_date   1:43   6.74 .142     .000
00932>       [CN= 60.0: N= 3.00: Tp=  .47]
00933> #-----------------|-------------------------------------------------------------|
00934> #-----------------|-------------------------------------------------------------|
00935> #-----------------|                                                             |
00936> #-----------------|                 Controlled Runoff From ZONE 2               |
00937> #-----------------|                                                             |
00938> #-----------------|-------------------------------------------------------------|
00939> #-----------------|-------------------------------------------------------------|
00940> R0001:C00117------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00941>     CALIB STANDHYD         1.0 03:FB1           14.70    1.726 No_date   1:03  27.69 .585     .000
00942>       [XIMP=.35:TIMP=.55]
00943>       [LOSS= 2 :CN= 74.0]
00944>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00945>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
00946> #-----------------|-------------------------------------------------------------|
00947> R0001:C00118------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00948>     CALIB STANDHYD         1.0 04:MINOR          .21     .061 No_date   1:00  32.95 .696     .000
00949>       [XIMP=.61:TIMP=.61]
00950>       [LOSS= 2 :CN= 74.0]
00951>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00952>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
00953> #-----------------|-------------------------------------------------------------|
00954> R0001:C00119------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00955>     DIVERT HYD         ->     1.0 04:MINOR          .21     .061 No_date   1:00  32.95  n/a     .000
00956>                diverted <=     1.0 05:MINOR          .19     .035 No_date   1:00  32.95  n/a     .000
00957>                diverted <=     1.0 06:MAJOR          .02     .026 No_date   1:00  32.95  n/a     .000
00958> #-----------------|-------------------------------------------------------------|
00959> R0001:C00120------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00960>     CALIB STANDHYD         1.0 04:FB1-A          .33     .026 No_date   1:08  20.06 .424     .000
00961>       [XIMP=.01:TIMP=.39]
00962>       [LOSS= 2 :CN= 74.0]
00963>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00964>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
00965> #-----------------|-------------------------------------------------------------|
00966> R0001:C00121------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00967>     CALIB STANDHYD         1.0 07:SWMF#2         1.11     .243 No_date   1:00  29.78 .629     .000
00968>       [XIMP=.51:TIMP=.51]
00969>       [LOSS= 2 :CN= 74.0]
00970>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00971>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
00972> #-----------------|-------------------------------------------------------------|
00973> #-----------------|-------------------------------------------------------------|
00974> R0001:C00122------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00975>     ADD HYD                1.0 03:FB1           14.70    1.726 No_date   1:03  27.69  n/a     .000
00976>                     +     1.0 05:MINOR          .19     .035 No_date   1:00  32.95  n/a     .000
00977>                     +     1.0 04:FB1-A          .33     .026 No_date   1:08  20.06  n/a     .000
00978>                     +     1.0 07:SWMF#2        1.11     .243 No_date   1:00  29.78  n/a     .000
00979>                   SUM=    1.0 08:P#2 In        16.33    1.914 No_date   1:03  27.74  n/a     .000
00980> #-----------------|-------------------------------------------------------------|
00981> #-----------------|------------------- SWM Facility #2 -------------------------|
00982> #-----------------|-------------------------------------------------------------|
00983> R0001:C00123------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00984>     ROUTE RESERVOIR ->     1.0 08:P#2 In        16.33    1.914 No_date   1:03  27.74  n/a     .000
00985>                   out <=   1.0 03:P#2Out        16.33     .139 No_date   3:04  27.74  n/a     .000
00986>            overflow <=     1.0 04:P#2Over        .00     .000 No_date   0:00    .00  n/a     .000
00987>       {MxStoUsed=.3744E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00988> #-----------------|-------------------------------------------------------------|
00989> R0001:C00124------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00990>     ADD HYD                1.0 03:P#2Out        16.33     .139 No_date   3:04  27.74  n/a     .000
00991>                     +     1.0 04:P#2Over        .00     .000 No_date   0:00    .00  n/a     .000
00992>                   SUM=    1.0 05:P#2 Out       16.33     .139 No_date   3:04  27.74  n/a     .000
00993> #-----------------|-------------------------------------------------------------|
00994> R0001:C00125------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00995>     DIVERT HYD         ->     1.0 05:P#2 Out       16.33     .139 No_date   3:04  27.74  n/a     .000
00996>                diverted <=     1.0 03:PTwoW          1.72     .050 No_date   3:04  27.74  n/a     .000
00997>                diverted <=     1.0 04:PTwoE         14.21     .090 No_date   3:04  27.74  n/a     .000
00998> #-----------------|-------------------------------------------------------------|
00999> #-----------------|                                                             |
01000> #-----------------|                   Watercourse Flows- ZONE 2                 |
01001> #-----------------|                                                             |
01002> #-----------------|-------------------------------------------------------------|
01003> #-----------------|-------------------------------------------------------------|
01004> #-----------------|-------------- East Watercourse Area ----------------------|
01005> #-----------------|--------------      Foley Drain      -------------------------|
01006> #-----------------|-------------------------------------------------------------|
01007> R0001:C00126------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01008>     CALIB NASHYD           1.0 05:Ext-2         417.20    3.752 No_date   3:33  12.52 .265     .000
01009>       [CN= 74.7: N= 3.00: Tp= 1.87]
01010> #-----------------|-------------------------------------------------------------|
01011> R0001:C00127------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01012>     CALIB NASHYD           1.0 07:NAT            6.51     .213 No_date   1:29  15.49 .327     .000
01013>       [CN= 79.1: N= 3.00: Tp=  .36]
01014> #-----------------|-------------------------------------------------------------|
01015> R0001:C00128------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01016>     ADD HYD                1.0 05:Ext-2         417.20    3.752 No_date   3:33  12.52  n/a     .000
01017>                     +     1.0 07:NAT            6.51     .213 No_date   1:29  15.49  n/a     .000
01018>                   SUM=    1.0 08:FIn           423.71    3.775 No_date   3:30  12.56  n/a     .000
01019> #-----------------|-------------------------------------------------------------|
01020> R0001:C00129------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01021>     ROUTE CHANNEL    ->     1.0 08:FIn           423.71    3.775 No_date   3:30  12.56  n/a     .000
01022>       [RD7= 1.00] out<-    1.0 05:SiteLag       423.71    3.763 No_date   3:37  12.56  n/a     .000
01023>       [L/S/n=  550./ .650/.035]
01024>       {Vmax= 1.146:Dmax= 1.133}
01025> #-----------------|-------------------------------------------------------------|
01026> #-----------------|-------------------------------------------------------------|
01027> #-----------------|                                                             |
01028> #-----------------|                 Controlled Runoff From ZONE 3               |
01029> #-----------------|                                                             |
01030> #-----------------|-------------------------------------------------------------|
01031> #-----------------|-------------------------------------------------------------|
01032> R0001:C00130------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01033>     CALIB STANDHYD         1.0 07:FB2           10.10    1.204 No_date   1:02  28.13 .595     .000
01034>       [XIMP=.32:TIMP=.59]
01035>       [LOSS= 2 :CN= 74.0]
01036>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01037>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
01038> #-----------------|-------------------------------------------------------------|
01039> R0001:C00131------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01040>     CALIB STANDHYD         1.0 08:SWMF3          1.21     .258 No_date   1:00  29.46 .623     .000
01041>       [XIMP=.50:TIMP=.50]
01042>       [LOSS= 2 :CN= 74.0]
01043>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01044>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
01045> #-----------------|-------------------------------------------------------------|
01046> R0001:C00132------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01047>     ADD HYD                1.0 07:FB2           10.10    1.204 No_date   1:02  28.13  n/a     .000
01048>                     +     1.0 08:SWMF3          1.21     .258 No_date   1:00  29.46  n/a     .000
01049>                   SUM=    1.0 09:P3IN          11.31    1.400 No_date   1:01  28.27  n/a     .000
01050> #-----------------|-------------------------------------------------------------|
01051> #-----------------|-------------------------------------------------------------|
01052> #-----------------|------------------- SWM Facility #3 -------------------------|
01053> #-----------------|-------------------------------------------------------------|
01054> R0001:C00133------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01055>     ROUTE RESERVOIR ->     1.0 09:P3IN          11.31    1.400 No_date   1:01  28.27  n/a     .000
01056>                   out <=   1.0 07:P#3Out        11.31     .028 No_date   3:19  28.27  n/a     .000
01057>            overflow <=     1.0 08:P#2Over        .00     .000 No_date   0:00    .00  n/a     .000
01058>       {MxStoUsed=.2967E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01059> #-----------------|-------------------------------------------------------------|
01060> R0001:C00134------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01061>     ADD HYD                1.0 04:PTwoE         14.21     .090 No_date   3:04  27.74  n/a     .000
01062>                     +     1.0 05:SiteLag      423.71    3.763 No_date   3:37  12.56  n/a     .000
01063>                     +     1.0 07:P#3Out        11.31     .028 No_date   3:19  28.27  n/a     .000
01064>                     +     1.0 08:P#2Over        .00     .000 No_date   0:00    .00  n/a     .000
01065>                   SUM=    1.0 09:Foley Drai   449.23    3.872 No_date   3:36  13.44  n/a     .000
01066> #-----------------|-------------------------------------------------------------|
01067> R0001:C00135------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01068>     CALIB NASHYD           1.0 04:Ext 4          6.30     .069 No_date   2:00   7.94 .168     .000
```

```
01069>        [CN= 64.8: N= 3.00: Tp=  .64]
01070> #----------------|-------------------------------------------------------------|
01071> R0001:C00136-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01072>     ADD HYD              1.0 09:Foley Drai   449.23    3.872 No_date    3:36   13.44  n/a     .000
01073>                    +     1.0 04:Ext 4          6.30     .069 No_date    2:00    7.94  n/a     .000
01074>                   SUM=   1.0 05:Pt of IntF   455.53    3.900 No_date    3:35   13.36  n/a     .000
01075> #----------------|-------------------------------------------------------------|
01076> R0001:C00137-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01077>     ADD HYD              1.0 01:DS Lag        63.10     .948 No_date    1:57   16.46  n/a     .000
01078>                    +     1.0 02:Ext 3          1.55     .017 No_date    1:43    6.74  n/a     .000
01079>                    +     1.0 03:PTwoW          1.72     .050 No_date    3:04   27.74  n/a     .000
01080>                    +     1.0 06:MAJOR           .02     .026 No_date    1:00   32.95  n/a     .000
01081>                   SUM=   1.0 10:Pt of IntT    66.39     .990 No_date    1:58   16.53  n/a     .000
01082> #----------------|-------------------------------------------------------------|
01083> #----------------|-------------------------------------------------------------|
01084> #                |  2222  5555   Y   Y  RRRR       CCCC  H   H  IIIII           |
01085> #                |     2  5      Y Y   R   R     C      H   H    I             |
01086> #                |  2222  5555    Y    RRRR     C      HHHHH    I             |
01087> #                |  2        5    Y    R  R     C      H   H    I             |
01088> #                |  2222  5555    Y    R   R     CCCC  H   H  IIIII           |
01089> #----------------|-------------------------------------------------------------|
01090> ***************************************************************************
01091>                                  25-YEAR, 3 HOUR CHICAGO STORM
01092> ***************************************************************************
01093> #----------------|-------------------------------------------------------------|
01094> R0001:C00138-------------------------------------------------------------------------------------------
01095>       CHICAGO STORM
01096>        [SDT= 5.00:SDUR=   3.00:PTOT=  56.12]
01097>        (A/B/C= 787.346/   1.500/    .719: R=.9997)
01098> #----------------|-------------------------------------------------------------|
01099> #----------------|-------------------------------------------------------------|
01100> #                |                                                             |
01101> #                |                   Controlled Runoff From ZONE 1             |
01102> #                |                                                             |
01103> #----------------|-------------------------------------------------------------|
01104> #----------------|-------------------------------------------------------------|
01105> #----------------|---------------- SWM Facility #1 Area ----------------------|
01106> #----------------|------------------- West Site Area -----------------------|
01107> #----------------|-------------------------------------------------------------|
01108> R0001:C00139-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01109>     CALIB NASHYD         1.0 01:Ext 5          .97     .056 No_date    1:19   21.40  .381     .000
01110>        [CN= 77.7: N= 3.00: Tp=  .26]
01111> #----------------|-------------------------------------------------------------|
01112> R0001:C00140-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01113>     CALIB STANDHYD       1.0 02:FB Z1-1       12.37    1.652 No_date    1:02   32.85  .585     .000
01114>        [XIMP=.30:TIMP=.50]
01115>        [LOSS= 2 :CN= 74.0]
01116>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01117>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
01118> #----------------|-------------------------------------------------------------|
01119> R0001:C00141-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01120>     CALIB STANDHYD       1.0 03:FB Z1-3        .98     .171 No_date    1:00   32.85  .585     .000
01121>        [XIMP=.30:TIMP=.50]
01122>        [LOSS= 2 :CN= 74.0]
01123>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01124>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
01125> #----------------|-------------------------------------------------------------|
01126> R0001:C00142-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01127>     CALIB STANDHYD       1.0 04:SWMF#1         1.90     .458 No_date    1:01   36.37  .648     .000
01128>        [XIMP=.50:TIMP=.50]
01129>        [LOSS= 2 :CN= 74.0]
01130>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01131>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
01132> #----------------|-------------------------------------------------------------|
01133> R0001:C00143-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01134>     ADD HYD              1.0 01:Ext 5          .97     .056 No_date    1:19   21.40  n/a     .000
01135>                    +     1.0 02:FB Z1-1       12.37    1.652 No_date    1:02   32.85  n/a     .000
01136>                    +     1.0 03:FB Z1-3        .98     .171 No_date    1:00   32.85  n/a     .000
01137>                    +     1.0 04:SWMF#1         1.90     .458 No_date    1:01   36.37  n/a     .000
01138>                   SUM=   1.0 05:P#1 IN        16.22    2.224 No_date    1:02   32.58  n/a     .000
01139> #----------------|-------------------------------------------------------------|
01140> #----------------|---------------- SWM Facility #1 ----------------------------|
01141> #----------------|-------------------------------------------------------------|
01142> R0001:C00144-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01143>     ROUTE RESERVOIR ->    1.0 05:P#1 IN        16.22    2.224 No_date    1:02   32.58  n/a     .000
01144>                 out <=   1.0 01:P#1Out        16.22     .020 No_date    3:31   32.58  n/a     .000
01145>           overflow <=    1.0 02:P#1Over         .00     .000 No_date    0:00    .00  n/a     .000
01146>      (MxStoUsed=.5101E+00  m3, TotOvrVol=.0000E+00  m3, N-Ovf=   0, TotDurOvf=    0.hrs)
01147> #----------------|-------------------------------------------------------------|
01148> #----------------|-------------------------------------------------------------|
01149> #                |                                                             |
01150> #                |                   Watercourse Flows- ZONE 1                 |
01151> #                |                                                             |
01152> #----------------|-------------------------------------------------------------|
01153> #----------------|-------------------------------------------------------------|
01154> #----------------|-------------- West Watercourse Area ----------------------|
01155> #----------------|------------- Small Unnmaed Tributary ----------------------|
01156> #----------------|-------------------------------------------------------------|
01157> R0001:C00145-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01158>     CALIB NASHYD         1.0 03:Ext 1          41.20    1.173 No_date    1:47   18.02  .321     .000
01159>        [CN= 74.1: N= 3.00: Tp=  .57]
01160> #----------------|-------------------------------------------------------------|
01161> R0001:C00146-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01162>     ROUTE CHANNEL   ->    1.0 03:Ext 1          41.20    1.173 No_date    1:47   18.02  n/a     .000
01163>        [RDT= 1.00] out<-    1.0 04:SiteLag       41.20    1.134 No_date    1:56   18.02  n/a     .000
01164>        [L/S/n=  425./ .960/.035]
01165>        (Vmax=  .788:Dmax=  .367)
01166> R0001:C00147-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01167>     CALIB NASHYD         1.0 05:FB Z1-2         5.68     .224 No_date    1:32   19.68  .351     .000
01168>        [CN= 77.0: N= 3.00: Tp=  .40]
01169> #----------------|-------------------------------------------------------------|
01170> #----------------|------- Total Flow at South Property Line -------------------|
01171> #----------------|-------------------------------------------------------------|
01172> R0001:C00148-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01173>     ADD HYD              1.0 01:P#1Out        16.22     .020 No_date    3:31   32.58  n/a     .000
01174>                    +     1.0 02:P#1Over         .00     .000 No_date    0:00    .00  n/a     .000
01175>                    +     1.0 04:SiteLag       41.20    1.134 No_date    1:56   18.02  n/a     .000
01176>                    +     1.0 05:FB Z1-2         5.68     .224 No_date    1:32   19.68  n/a     .000
01177>                   SUM=   1.0 03:Unc PL        63.10    1.327 No_date    1:53   21.91  n/a     .000
01178> #----------------|-------------------------------------------------------------|
01179> R0001:C00149-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01180>     ROUTE CHANNEL   ->    1.0 03:Unc PL         63.10    1.327 No_date    1:53   21.91  n/a     .000
01181>        [RDT= 1.00] out<-    1.0 01:DS Lag        63.10    1.321 No_date    1:57   21.91  n/a     .000
01182>        [L/S/n=  150./ .960/.035]
01183>        (Vmax=  .787:Dmax=  .379)
01184> #----------------|-------------------------------------------------------------|
01185> R0001:C00150-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01186>     CALIB NASHYD         1.0 02:Ext 3           1.55     .026 No_date    1:42    9.87  .176     .000
01187>        [CN= 60.0: N= 3.00: Tp=  .47]
01188> #----------------|-------------------------------------------------------------|
01189> #----------------|-------------------------------------------------------------|
01190> #                |                                                             |
01191> #                |                   Controlled Runoff From ZONE 2             |
01192> #                |                                                             |
01193> #----------------|-------------------------------------------------------------|
01194> #----------------|-------------------------------------------------------------|
01195> R0001:C00151-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01196>     CALIB STANDHYD       1.0 03:FB1            14.70    2.188 No_date    1:03   34.69  .618     .000
01197>        [XIMP=.35:TIMP=.55]
01198>        [LOSS= 2 :CN= 74.0]
01199>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01200>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
01201> #----------------|-------------------------------------------------------------|
01202> R0001:C00152-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01203>     CALIB STANDHYD       1.0 04:MINOR           .21     .073 No_date    1:00   40.27  .718     .000
01204>        [XIMP=.61:TIMP=.61]
01205>        [LOSS= 2 :CN= 74.0]
01206>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01207>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
01208> #----------------|-------------------------------------------------------------|
01209> R0001:C00153-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01210>     DIVERT HYD      ->    1.0 04:MINOR           .21     .073 No_date    1:00   40.27  n/a     .000
01211>            diverted <=   1.0 05:MINOR           .19     .035 No_date    1:00   40.27  n/a     .000
01212>            diverted <=   1.0 06:MAJOR           .02     .038 No_date    1:00   40.27  n/a     .000
01213> #----------------|-------------------------------------------------------------|
01214> R0001:C00154-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01215>     CALIB STANDHYD       1.0 04:FB1-A           .33     .038 No_date    1:07   26.42  .471     .000
01216>        [XIMP=.01:TIMP=.39]
01217>        [LOSS= 2 :CN= 74.0]
01218>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01219>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
01220> #----------------|-------------------------------------------------------------|
01221> R0001:C00155-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01222>     CALIB STANDHYD       1.0 07:SWMF#2          1.11     .296 No_date    1:00   36.72  .654     .000
01223>        [XIMP=.51:TIMP=.51]
01224>        [LOSS= 2 :CN= 74.0]
01225>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01226>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
01227> #----------------|-------------------------------------------------------------|
01228> #----------------|-------------------------------------------------------------|
01229> R0001:C00156-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01230>     ADD HYD              1.0 03:FB1            14.70    2.188 No_date    1:03   34.69  n/a     .000
01231>                    +     1.0 05:MINOR           .19     .035 No_date    1:00   40.27  n/a     .000
01232>                    +     1.0 04:FB1-A           .33     .038 No_date    1:07   26.42  n/a     .000
01233>                    +     1.0 07:SWMF#2          1.11     .296 No_date    1:00   36.72  n/a     .000
01234>                   SUM=   1.0 08:P#2 In        16.33    2.422 No_date    1:03   34.72  n/a     .000
01235> #----------------|-------------------------------------------------------------|
01236> #----------------|---------------- SWM Facility #2 ----------------------------|
01237> #----------------|-------------------------------------------------------------|
01238> R0001:C00157-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01239>     ROUTE RESERVOIR ->    1.0 08:P#2 In        16.33    2.422 No_date    1:03   34.72  n/a     .000
01240>                 out <=   1.0 03:P#2Out        16.33     .226 No_date    2:50   34.72  n/a     .000
01241>           overflow <=    1.0 04:P#2Over         .00     .000 No_date    0:00    .00  n/a     .000
01242>      (MxStoUsed=.4340E+00  m3, TotOvrVol=.0000E+00  m3, N-Ovf=   0, TotDurOvf=    0.hrs)
01243> #----------------|-------------------------------------------------------------|
01244> R0001:C00158-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01245>     ADD HYD              1.0 03:P#2Out        16.33     .226 No_date    2:50   34.72  n/a     .000
01246>                    +     1.0 04:P#2Over         .00     .000 No_date    0:00    .00  n/a     .000
01247>                   SUM=   1.0 05:P#2 Out       16.33     .226 No_date    2:50   34.72  n/a     .000
01248> #----------------|-------------------------------------------------------------|
01249> R0001:C00159-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01250>     DIVERT HYD      ->    1.0 05:P#2 Out       16.33     .226 No_date    2:50   34.72  n/a     .000
01251>            diverted <=   1.0 03:PTwoW          2.80     .091 No_date    2:50   34.72  n/a     .000
01252>            diverted <=   1.0 04:PTwoE          13.22     .136 No_date    2:50   34.72  n/a     .000
01253> #----------------|-------------------------------------------------------------|
01254> #                |                                                             |
01255> #                |                   Watercourse Flows- ZONE 2                 |
01256> #                |                                                             |
01257> #----------------|-------------------------------------------------------------|
01258> #----------------|-------------------------------------------------------------|
01259> #----------------|-------------- East Watercourse Area ----------------------|
01260> #----------------|------------------- Foley Drain ----------------------------|
01261> #----------------|-------------------------------------------------------------|
01262> R0001:C00160-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01263>     CALIB NASHYD         1.0 05:Ext-2         417.20    5.238 No_date    3:31   17.47  .311     .000
01264>        [CN= 74.7: N= 3.00: Tp= 1.87]
01265> #----------------|-------------------------------------------------------------|
01266> R0001:C00161-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01267>     CALIB NASHYD         1.0 07:NAT             6.51     .298 No_date    1:28   21.16  .377     .000
01268>        [CN= 79.1: N= 3.00: Tp=  .36]
01269> #----------------|-------------------------------------------------------------|
01270> R0001:C00162-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01271>     ADD HYD              1.0 05:Ext-2         417.20    5.238 No_date    3:31   17.47  n/a     .000
01272>                    +     1.0 07:NAT             6.51     .298 No_date    1:28   21.16  n/a     .000
01273>                   SUM=   1.0 08:FIn           423.71    5.272 No_date    3:29   17.52  n/a     .000
01274> #----------------|-------------------------------------------------------------|
01275> R0001:C00163-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01276>     ROUTE CHANNEL   ->    1.0 08:FIn           423.71    5.272 No_date    3:29   17.52  n/a     .000
01277>        [RDT= 1.00] out<-    1.0 05:SiteLag       423.71    5.250 No_date    3:38   17.52  n/a     .000
01278>        [L/S/n=  550./ .650/.035]
01279>        (Vmax= 1.194:Dmax= 1.251)
01280> #----------------|-------------------------------------------------------------|
01281> #----------------|-------------------------------------------------------------|
01282> #                |                                                             |
01283> #                |                   Controlled Runoff From ZONE 3             |
01284> #                |                                                             |
01285> #----------------|-------------------------------------------------------------|
01286> #----------------|-------------------------------------------------------------|
01287> R0001:C00164-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01288>     CALIB STANDHYD       1.0 07:FB2            10.10    1.564 No_date    1:02   35.28  .629     .000
01289>        [XIMP=.32:TIMP=.59]
01290>        [LOSS= 2 :CN= 74.0]
01291>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01292>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
01293> #----------------|-------------------------------------------------------------|
01294> R0001:C00165-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01295>     CALIB STANDHYD       1.0 08:SWMF3           1.21     .314 No_date    1:00   36.37  .648     .000
01296>        [XIMP=.50:TIMP=.50]
01297>        [LOSS= 2 :CN= 74.0]
01298>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01299>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
01300> #----------------|-------------------------------------------------------------|
01301> R0001:C00166-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01302>     ADD HYD              1.0 07:FB2            10.10    1.564 No_date    1:02   35.28  n/a     .000
01303>                    +     1.0 08:SWMF3           1.21     .314 No_date    1:00   36.37  n/a     .000
01304>                   SUM=   1.0 09:P3IN           11.31    1.793 No_date    1:02   35.39  n/a     .000
01305> #----------------|-------------------------------------------------------------|
01306> #----------------|-------------------------------------------------------------|
01307> #----------------|---------------- SWM Facility #3 ----------------------------|
01308> #----------------|-------------------------------------------------------------|
01309> R0001:C00167-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01310>     ROUTE RESERVOIR ->    1.0 09:P3IN           11.31    1.793 No_date    1:02   35.39  n/a     .000
01311>                 out <=   1.0 07:P#3Out        11.31     .031 No_date    3:18   35.39  n/a     .000
01312>           overflow <=    1.0 08:P#2Over         .00     .000 No_date    0:00    .00  n/a     .000
01313>      (MxStoUsed=.3748E+00  m3, TotOvrVol=.0000E+00  m3, N-Ovf=   0, TotDurOvf=    0.hrs)
01314> #----------------|-------------------------------------------------------------|
01315> R0001:C00168-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01316>     ADD HYD              1.0 04:PTwoE          13.22     .136 No_date    2:50   34.72  n/a     .000
01317>                    +     1.0 05:SiteLag       423.71    5.250 No_date    3:38   17.52  n/a     .000
01318>                    +     1.0 07:P#3Out         11.31     .031 No_date    3:18   35.39  n/a     .000
01319>                    +     1.0 08:P#2Over         .00     .000 No_date    0:00    .00  n/a     .000
01320>                   SUM=   1.0 09:Foley Drai   448.24    5.393 No_date    3:36   18.48  n/a     .000
01321> #----------------|-------------------------------------------------------------|
01322> R0001:C00169-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01323>     CALIB NASHYD         1.0 04:Ext 4           6.30     .102 No_date    1:57   11.55  .206     .000
01324>        [CN= 64.8: N= 3.00: Tp=  .64]
01325> #----------------|-------------------------------------------------------------|
01326> R0001:C00170-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01327>     ADD HYD              1.0 09:Foley Drai   448.24    5.393 No_date    3:36   18.48  n/a     .000
01328>                    +     1.0 04:Ext 4           6.30     .102 No_date    1:57   11.55  n/a     .000
01329>                   SUM=   1.0 05:Pt of IntF   454.54    5.431 No_date    3:35   18.38  n/a     .000
01330> #----------------|-------------------------------------------------------------|
01331> R0001:C00171-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01332>     ADD HYD              1.0 01:DS Lag         63.10    1.321 No_date    1:57   21.91  n/a     .000
01333>                    +     1.0 02:Ext 3           1.55     .026 No_date    1:42    9.87  n/a     .000
01334>                    +     1.0 03:PTwoW           2.80     .091 No_date    2:50   34.72  n/a     .000
01335>                    +     1.0 06:MAJOR            .02     .038 No_date    1:00   40.27  n/a     .000
01336>                   SUM=   1.0 10:Pt of IntT    67.47    1.417 No_date    1:57   22.17  n/a     .000
01337> #----------------|-------------------------------------------------------------|
01338> #----------------|-------------------------------------------------------------|
01339> #                |  5555  000   Y   Y  RRRR       CCCC  H   H  IIIII           |
01340> #                |  5    0   0   Y Y   R   R     C      H   H    I             |
01341> #                |  5555 0   0   Y    RRRR     C      HHHHH    I             |
01342> #                |     5 0   0   Y    R  R     C      H   H    I             |
01343> #                |  5555  000    Y    R   R     CCCC  H   H  IIIII           |
01344> #----------------|-------------------------------------------------------------|
01345> ***************************************************************************
01346> #                                  50-YEAR, 3 HOUR CHICAGO STORM
01347> ***************************************************************************
01348> #----------------|-------------------------------------------------------------|
01349> R0001:C00172-------------------------------------------------------------------------------------------
01350>       CHICAGO STORM
01351>        [SDT= 5.00:SDUR=   3.00:PTOT=  62.85]
01352>        (A/B/C= 872.670/   1.500/    .717: R=.9997)
01353> #----------------|-------------------------------------------------------------|
01354> #----------------|-------------------------------------------------------------|
01355> #                |                                                             |
01356> #                |                   Controlled Runoff From ZONE 1             |
01357> #                |                                                             |
01358> #----------------|-------------------------------------------------------------|
01359> #----------------|-------------------------------------------------------------|
01360> #----------------|---------------- SWM Facility #1 Area ----------------------|
01361> #----------------|------------------- West Site Area -----------------------|
01362> #----------------|-------------------------------------------------------------|
01363> R0001:C00173-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01364>     CALIB NASHYD         1.0 01:Ext 5          .97     .069 No_date    1:19   25.94  .413     .000
01365>        [CN= 77.7: N= 3.00: Tp=  .26]
01366> #----------------|-------------------------------------------------------------|
01367> R0001:C00174-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01368>     CALIB STANDHYD       1.0 02:FB Z1-1        12.37    1.944 No_date    1:02   38.25  .609     .000
01369>        [XIMP=.30:TIMP=.50]
01370>        [LOSS= 2 :CN= 74.0]
01371>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01372>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
01373> #----------------|-------------------------------------------------------------|
01374> R0001:C00175-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01375>     CALIB STANDHYD       1.0 03:FB Z1-3         .98     .199 No_date    1:00   38.25  .609     .000
01376>        [XIMP=.30:TIMP=.50]
01377>        [LOSS= 2 :CN= 74.0]
01378>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01379>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
01380> #----------------|-------------------------------------------------------------|
01381> R0001:C00176-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01382>     CALIB STANDHYD       1.0 04:SWMF#1          1.90     .541 No_date    1:00   41.80  .665     .000
01383>        [XIMP=.50:TIMP=.50]
01384>        [LOSS= 2 :CN= 74.0]
01385>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01386>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
01387> #----------------|-------------------------------------------------------------|
01388> R0001:C00177-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01389>     ADD HYD              1.0 01:Ext 5          .97     .069 No_date    1:19   25.94  n/a     .000
01390>                    +     1.0 02:FB Z1-1        12.37    1.944 No_date    1:02   38.25  n/a     .000
01391>                    +     1.0 03:FB Z1-3         .98     .199 No_date    1:00   38.25  n/a     .000
01392>                    +     1.0 04:SWMF#1          1.90     .541 No_date    1:00   41.80  n/a     .000
01393>                   SUM=   1.0 05:P#1 IN        16.22    2.580 No_date    1:01   37.93  n/a     .000
01394> #----------------|-------------------------------------------------------------|
01395> #----------------|---------------- SWM Facility #1 ----------------------------|
01396> #----------------|-------------------------------------------------------------|
01397> R0001:C00178-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01398>     ROUTE RESERVOIR ->    1.0 05:P#1 IN        16.22    2.580 No_date    1:01   37.93  n/a     .000
01399>                 out <=   1.0 01:P#1Out        16.22     .021 No_date    3:30   37.93  n/a     .000
01400>           overflow <=    1.0 02:P#1Over         .00     .000 No_date    0:00    .00  n/a     .000
01401>      (MxStoUsed=.5959E+00  m3, TotOvrVol=.0000E+00  m3, N-Ovf=   0, TotDurOvf=    0.hrs)
01402> #----------------|-------------------------------------------------------------|
01403> #----------------|-------------------------------------------------------------|
01404> #                |                                                             |
01405> #                |                   Watercourse Flows- ZONE 1                 |
01406> #                |                                                             |
01407> #----------------|-------------------------------------------------------------|
01408> #----------------|-------------------------------------------------------------|
01409> #----------------|-------------- West Watercourse Area ----------------------|
01410> #----------------|------------- Small Unnmaed Tributary ----------------------|
01411> #----------------|-------------------------------------------------------------|
01412> R0001:C00179-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01413>     CALIB NASHYD         1.0 03:Ext 1          41.20    1.452 No_date    1:46   22.13  .352     .000
01414>        [CN= 74.1: N= 3.00: Tp=  .57]
01415> #----------------|-------------------------------------------------------------|
01416> R0001:C00180-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01417>     ROUTE CHANNEL   ->    1.0 03:Ext 1          41.20    1.452 No_date    1:46   22.13  n/a     .000
01418>        [RDT= 1.00] out<-    1.0 04:SiteLag       41.20    1.400 No_date    1:57   22.13  n/a     .000
01419>        [L/S/n=  425./ .960/.035]
01420>        (Vmax=  .786:Dmax=  .388)
01421> R0001:C00181-------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01422>     CALIB NASHYD         1.0 05:FB Z1-2         5.68     .277 No_date    1:31   24.08  .383     .000
01423>        [CN= 77.0: N= 3.00: Tp=  .40]
01424> #----------------|-------------------------------------------------------------|
```

```
01425> #-----------------|-------- Total Flow at South Property Line ----------------|
01426> #-----------------|-----------------------------------------------------------|
01427> R0001:C00182------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01428>     ADD HYD               1.0 01:P#1Out        16.22     .021 No_date    3:30   37.93  n/a     .000
01429>                     +     1.0 02:P#1Over        .00     .000 No_date    0:00     .00  n/a     .000
01430>                     +     1.0 04:SiteLag      41.20    1.400 No_date    1:57   22.13  n/a     .000
01431>                     +     1.0 05:FB Z1-2       5.68     .277 No_date    1:31   24.08  n/a     .000
01432>                   SUM=    1.0 03:UnC PL       63.10    1.632 No_date    1:53   26.36  n/a     .000
01433> #-----------------|-----------------------------------------------------------|
01434> R0001:C00183------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01435>     ROUTE CHANNEL   ->    1.0 03:UnC PL       63.10    1.632 No_date    1:53   26.36  n/a     .000
01436>       [RDT= 1.00] out<-   1.0 01:DS Lag       63.10    1.625 No_date    1:56   26.36  n/a     .000
01437>        [L/S/n=  150./ .960/.035]
01438>        [Vmax=  .784:Dmax=  .402]
01439> #-----------------|-----------------------------------------------------------|
01440> R0001:C00184------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01441>     CALIB NASHYD          1.0 02:Ext 3          1.55     .033 No_date    1:41   12.57 .200     .000
01442>       [CN= 60.0: N= 3.00: Tp=  .47]
01443> #-----------------|-----------------------------------------------------------|
01444> #-----------------|-----------------------------------------------------------|
01445> #                 |                                                           |
01446> #                 |                 Controlled Runoff From ZONE 2             |
01447> #                 |                                                           |
01448> #-----------------|-----------------------------------------------------------|
01449> #-----------------|-----------------------------------------------------------|
01450> R0001:C00185------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01451>     CALIB STANDHYD        1.0 03:FB1           14.70    2.564 No_date    1:02   40.22 .640     .000
01452>       [XIMP=.35:TIMP=.55]
01453>       [LOSS= 2 :CN= 74.0]
01454>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01455>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
01456> #-----------------|-----------------------------------------------------------|
01457> R0001:C00186------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01458>     CALIB STANDHYD        1.0 04:MINOR          .21     .082 No_date    1:00   45.99 .732     .000
01459>       [XIMP=.61:TIMP=.61]
01460>       [LOSS= 2 :CN= 74.0]
01461>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01462>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
01463> #-----------------|-----------------------------------------------------------|
01464> R0001:C00187------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01465>     DIVERT HYD      ->    1.0 04:MINOR          .21     .082 No_date    1:00   45.99  n/a     .000
01466>            diverted <=    1.0 05:MINOR          .18     .035 No_date    1:00   45.99  n/a     .000
01467>            diverted <=    1.0 06:MAJOR          .03     .047 No_date    1:00   45.99  n/a     .000
01468> #-----------------|-----------------------------------------------------------|
01469> R0001:C00188------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01470>     CALIB STANDHYD        1.0 04:FB1-A          .33     .047 No_date    1:07   31.54 .502     .000
01471>       [XIMP=.01:TIMP=.39]
01472>       [LOSS= 2 :CN= 74.0]
01473>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01474>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
01475> #-----------------|-----------------------------------------------------------|
01476> R0001:C00189------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01477>     CALIB STANDHYD        1.0 07:SWMF#2        1.11     .335 No_date    1:00   42.18 .671     .000
01478>       [XIMP=.51:TIMP=.51]
01479>       [LOSS= 2 :CN= 74.0]
01480>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01481>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
01482> #-----------------|-----------------------------------------------------------|
01483> #-----------------|-----------------------------------------------------------|
01484> R0001:C00190------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01485>     ADD HYD               1.0 03:FB1           14.70    2.564 No_date    1:02   40.22  n/a     .000
01486>                     +     1.0 05:MINOR          .18     .035 No_date    1:00   45.99  n/a     .000
01487>                     +     1.0 04:FB1-A          .33     .047 No_date    1:07   31.54  n/a     .000
01488>                     +     1.0 07:SWMF#2        1.11     .335 No_date    1:00   42.18  n/a     .000
01489>                   SUM=    1.0 08:P#2 In        16.32    2.871 No_date    1:02   40.24  n/a     .000
01490> #-----------------|-----------------------------------------------------------|
01491> #-----------------|---------------- SWM Facility #2 ----------------------------|
01492> #-----------------|-----------------------------------------------------------|
01493> R0001:C00191------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01494>     ROUTE RESERVOIR ->    1.0 08:P#2 In        16.32    2.871 No_date    1:02   40.24  n/a     .000
01495>                 out <=    1.0 03:P#2Out        16.32     .318 No_date    2:26   40.24  n/a     .000
01496>           overflow <=     1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
01497>       (MxStoUsed=.4750E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
01498> #-----------------|-----------------------------------------------------------|
01499> R0001:C00192------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01500>     ADD HYD               1.0 03:P#2Out        16.32     .318 No_date    2:26   40.24  n/a     .000
01501>                     +     1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
01502>                   SUM=    1.0 05:P#2 Out       16.32     .318 No_date    2:26   40.24  n/a     .000
01503> #-----------------|-----------------------------------------------------------|
01504> R0001:C00193------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01505>     DIVERT HYD      ->    1.0 05:P#2 Out       16.32     .318 No_date    2:26   40.24  n/a     .000
01506>            diverted <=    1.0 03:PTwoW          3.32     .124 No_date    2:26   40.24  n/a     .000
01507>            diverted <=    1.0 04:PTwoE         12.74     .194 No_date    2:26   40.24  n/a     .000
01508> #-----------------|-----------------------------------------------------------|
01509> #                 |                                                           |
01510> #                 |                 Watercourse Flows- ZONE 2                 |
01511> #                 |                                                           |
01512> #-----------------|-----------------------------------------------------------|
01513> #-----------------|-----------------------------------------------------------|
01514> #-----------------|-------------- East Watercourse Area ----------------------|
01515> #-----------------|--------------       Foley Drain       ----------------------|
01516> #-----------------|-----------------------------------------------------------|
01517> R0001:C00194------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01518>     CALIB NASHYD          1.0 05:Ext-2        417.20    6.472 No_date    3:30   21.57 .343     .000
01519>       [CN= 74.7: N= 3.00: Tp= 1.87]
01520> #-----------------|-----------------------------------------------------------|
01521> R0001:C00195------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01522>     CALIB NASHYD          1.0 07:NAT            6.51     .368 No_date    1:28   25.79 .410     .000
01523>       [CN= 79.1: N= 3.00: Tp=  .36]
01524> #-----------------|-----------------------------------------------------------|
01525> R0001:C00196------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01526>     ADD HYD               1.0 05:Ext-2        417.20    6.472 No_date    3:30   21.57  n/a     .000
01527>                     +     1.0 07:NAT            6.51     .368 No_date    1:28   25.79  n/a     .000
01528>                   SUM=    1.0 08:FIn          423.71    6.514 No_date    3:28   21.64  n/a     .000
01529> #-----------------|-----------------------------------------------------------|
01530> R0001:C00197------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01531>     ROUTE CHANNEL   ->    1.0 08:FIn          423.71    6.514 No_date    3:28   21.64  n/a     .000
01532>       [RDT= 1.00] out<-   1.0 05:SiteLag      423.71    6.479 No_date    3:38   21.64  n/a     .000
01533>        [L/S/n=  550./ .650/.035]
01534>        (Vmax= 1.144:Dmax= 1.305)
01535> #-----------------|-----------------------------------------------------------|
01536> #-----------------|-----------------------------------------------------------|
01537> #                 |                                                           |
01538> #                 |                 Controlled Runoff From ZONE 3             |
01539> #                 |                                                           |
01540> #-----------------|-----------------------------------------------------------|
01541> #-----------------|-----------------------------------------------------------|
01542> R0001:C00198------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01543>     CALIB STANDHYD        1.0 07:FB2           10.10    1.811 No_date    1:02   40.91 .651     .000
01544>       [XIMP=.32:TIMP=.59]
01545>       [LOSS= 2 :CN= 74.0]
01546>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01547>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
01548> #-----------------|-----------------------------------------------------------|
01549> R0001:C00199------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01550>     CALIB STANDHYD        1.0 08:SWMF3          1.21     .356 No_date    1:00   41.80 .665     .000
01551>       [XIMP=.50:TIMP=.50]
01552>       [LOSS= 2 :CN= 74.0]
01553>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01554>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
01555> #-----------------|-----------------------------------------------------------|
01556> R0001:C00200------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01557>     ADD HYD               1.0 07:FB2           10.10    1.811 No_date    1:02   40.91  n/a     .000
01558>                     +     1.0 08:SWMF3          1.21     .356 No_date    1:00   41.80  n/a     .000
01559>                   SUM=    1.0 09:P3IN          11.31    2.069 No_date    1:02   41.01  n/a     .000
01560> #-----------------|-----------------------------------------------------------|
01561> #-----------------|-----------------------------------------------------------|
01562> #-----------------|---------------- SWM Facility #3 ----------------------------|
01563> #-----------------|-----------------------------------------------------------|
01564> R0001:C00201------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01565>     ROUTE RESERVOIR ->    1.0 09:P3IN          11.31    2.069 No_date    1:02   41.01  n/a     .000
01566>                 out <=    1.0 07:P#3Out        11.31     .033 No_date    3:18   41.01  n/a     .000
01567>           overflow <=     1.0 08:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
01568>       (MxStoUsed=.4367E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
01569> #-----------------|-----------------------------------------------------------|
01570> R0001:C00202------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01571>     ADD HYD               1.0 04:PTwoE         12.74     .194 No_date    2:26   40.24  n/a     .000
01572>                     +     1.0 05:SiteLag      423.71    6.479 No_date    3:38   21.64  n/a     .000
01573>                     +     1.0 07:P#3Out        11.31     .033 No_date    3:18   41.01  n/a     .000
01574>                     +     1.0 08:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
01575>                   SUM=    1.0 09:Foley Drai   447.76    6.643 No_date    3:37   22.66  n/a     .000
01576> #-----------------|-----------------------------------------------------------|
01577> R0001:C00203------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01578>     CALIB NASHYD          1.0 04:Ext 4          6.30     .130 No_date    1:56   14.64 .233     .000
01579>       [CN= 64.8: N= 3.00: Tp=  .64]
01580> #-----------------|-----------------------------------------------------------|
01581> R0001:C00204------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01582>     ADD HYD               1.0 09:Foley Drai   447.76    6.643 No_date    3:37   22.66  n/a     .000
01583>                     +     1.0 04:Ext 4          6.30     .130 No_date    1:56   14.64  n/a     .000
01584>                   SUM=    1.0 05:Pt of IntF   454.06    6.689 No_date    3:36   22.55  n/a     .000
01585> #-----------------|-----------------------------------------------------------|
01586> R0001:C00205------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01587>     ADD HYD               1.0 01:DS Lag        63.10    1.625 No_date    1:56   26.36  n/a     .000
01588>                     +     1.0 02:Ext 3          1.55     .033 No_date    1:41   12.57  n/a     .000
01589>                     +     1.0 03:PTwoW          3.32     .124 No_date    2:26   40.24  n/a     .000
01590>                     +     1.0 06:MAJOR          .03     .047 No_date    1:00   45.99  n/a     .000
01591>                   SUM=    1.0 10:Pt of IntT    67.99    1.769 No_date    1:57   26.73  n/a     .000
01592> #-----------------|-----------------------------------------------------------|
01593> #-----------------|-----------------------------------------------------------|
01594> #          11    000    000   Y   Y RRRR       CCCC  H   H  IIIII
01595> #        1 1   0   0  0 0   0   Y Y  R   R     C      H   H    I
01596> #          1   0   0  0 0   0    Y   RRRR      C      HHHHH    I
01597> #          1   0   0  0 0   0    Y   R  R      C      H   H    I
01598> #         11111  000    000    Y   R   R       CCCC  H   H  IIIII
01599> #-----------------|-----------------------------------------------------------|
01600> #*************************************************************************
01601> #                          100-YEAR, 3 HOUR CHICAGO STORM
01602> #*************************************************************************
01603> #-----------------|-----------------------------------------------------------|
01604> R0001:C00206------------------------------------------------------------------------------------
01605>       CHICAGO STORM
01606>       [SDT= 5.00:SDUR=   3.00:PTOT=  69.31]
01607>       (A/B/C= 962.361/   1.500/    .717: R=.9997)
01608> #-----------------|-----------------------------------------------------------|
01609> #-----------------|-----------------------------------------------------------|
01610> #                 |                                                           |
01611> #                 |                 Controlled Runoff From ZONE 1             |
01612> #                 |                                                           |
01613> #-----------------|-----------------------------------------------------------|
01614> #                 |                                                           |
01615> #-----------------|---------------- SWM Facility #1 Area ----------------------|
01616> #-----------------|---------------- West Site Area -------------------------|
01617> #-----------------|-----------------------------------------------------------|
01618> R0001:C00207------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01619>     CALIB NASHYD          1.0 01:Ext 5           .97     .082 No_date    1:18   30.50 .440     .000
01620>       [CN= 77.7: N= 3.00: Tp=  .26]
01621> #-----------------|-----------------------------------------------------------|
01622> R0001:C00208------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01623>     CALIB STANDHYD        1.0 02:FB Z1-1       12.37    2.269 No_date    1:02   43.55 .628     .000
01624>       [XIMP=.30:TIMP=.50]
01625>       [LOSS= 2 :CN= 74.0]
01626>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01627>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
01628> #-----------------|-----------------------------------------------------------|
01629> R0001:C00209------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01630>     CALIB STANDHYD        1.0 03:FB Z1-3         .98     .226 No_date    1:00   43.55 .628     .000
01631>       [XIMP=.30:TIMP=.50]
01632>       [LOSS= 2 :CN= 74.0]
01633>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01634>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
01635> #-----------------|-----------------------------------------------------------|
01636> R0001:C00210------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01637>     CALIB STANDHYD        1.0 04:SWMF#1         1.90     .608 No_date    1:00   47.12 .680     .000
01638>       [XIMP=.50:TIMP=.50]
01639>       [LOSS= 2 :CN= 74.0]
01640>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01641>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
01642> #-----------------|-----------------------------------------------------------|
01643> R0001:C00211------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01644>     ADD HYD               1.0 01:Ext 5           .97     .082 No_date    1:18   30.50  n/a     .000
01645>                     +     1.0 02:FB Z1-1       12.37    2.269 No_date    1:02   43.55  n/a     .000
01646>                     +     1.0 03:FB Z1-3         .98     .226 No_date    1:00   43.55  n/a     .000
01647>                     +     1.0 04:SWMF#1         1.90     .608 No_date    1:00   47.12  n/a     .000
01648>                   SUM=    1.0 05:P#1 IN        16.22    2.977 No_date    1:01   43.19  n/a     .000
01649> #-----------------|-----------------------------------------------------------|
01650> #-----------------|---------------- SWM Facility #1 ----------------------------|
01651> #-----------------|-----------------------------------------------------------|
01652> R0001:C00212------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01653>     ROUTE RESERVOIR ->    1.0 05:P#1 IN        16.22    2.977 No_date    1:01   43.19  n/a     .000
01654>                 out <=    1.0 01:P#1Out        16.22     .021 No_date    3:29   43.19  n/a     .000
01655>           overflow <=     1.0 02:P#1Over        .00     .000 No_date    0:00     .00  n/a     .000
01656>       (MxStoUsed=.6806E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
01657> #-----------------|-----------------------------------------------------------|
01658> #-----------------|-----------------------------------------------------------|
01659> #                 |                                                           |
01660> #                 |                 Watercourse Flows- ZONE 1                 |
01661> #                 |                                                           |
01662> #-----------------|-----------------------------------------------------------|
01663> #-----------------|-----------------------------------------------------------|
01664> #-----------------|-------------- West Watercourse Area ----------------------|
01665> #-----------------|------------- Small Unnmaed Tributary ----------------------|
01666> #-----------------|-----------------------------------------------------------|
01667> R0001:C00213------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01668>     CALIB NASHYD          1.0 03:Ext 1          41.20    1.739 No_date    1:46   26.29 .379     .000
01669>       [CN= 74.1: N= 3.00: Tp=  .57]
01670> #-----------------|-----------------------------------------------------------|
01671> R0001:C00214------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01672>     ROUTE CHANNEL   ->    1.0 03:Ext 1          41.20    1.739 No_date    1:46   26.29  n/a     .000
01673>       [RDT= 1.00] out<-   1.0 04:SiteLag      41.20    1.676 No_date    1:56   26.29  n/a     .000
01674>        [L/S/n=  425./ .960/.035]
01675>        (Vmax=  .783:Dmax=  .410)
01676> R0001:C00215------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01677>     CALIB NASHYD          1.0 05:FB Z1-2        5.68     .332 No_date    1:31   28.52 .411     .000
01678>       [CN= 77.0: N= 3.00: Tp=  .40]
01679> #-----------------|-----------------------------------------------------------|
01680> #-----------------|-------- Total Flow at South Property Line ----------------|
01681> #-----------------|-----------------------------------------------------------|
01682> R0001:C00216------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01683>     ADD HYD               1.0 01:P#1Out        16.22     .021 No_date    3:29   43.19  n/a     .000
01684>                     +     1.0 02:P#1Over        .00     .000 No_date    0:00     .00  n/a     .000
01685>                     +     1.0 04:SiteLag      41.20    1.676 No_date    1:56   26.29  n/a     .000
01686>                     +     1.0 05:FB Z1-2        5.68     .332 No_date    1:31   28.52  n/a     .000
01687>                   SUM=    1.0 03:UnC PL        63.10    1.948 No_date    1:53   30.83  n/a     .000
01688> #-----------------|-----------------------------------------------------------|
01689> R0001:C00217------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01690>     ROUTE CHANNEL   ->    1.0 03:UnC PL        63.10    1.948 No_date    1:53   30.83  n/a     .000
01691>       [RDT= 1.00] out<-   1.0 01:DS Lag       63.10    1.940 No_date    1:56   30.83  n/a     .000
01692>        [L/S/n=  150./ .960/.035]
01693>        (Vmax=  .778:Dmax=  .423)
01694> #-----------------|-----------------------------------------------------------|
01695> R0001:C00218------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01696>     CALIB NASHYD          1.0 02:Ext 3           1.55     .041 No_date    1:40   15.38 .222     .000
01697>       [CN= 60.0: N= 3.00: Tp=  .47]
01698> #-----------------|-----------------------------------------------------------|
01699> #-----------------|-----------------------------------------------------------|
01700> #                 |                                                           |
01701> #                 |                 Controlled Runoff From ZONE 2             |
01702> #                 |                                                           |
01703> #-----------------|-----------------------------------------------------------|
01704> #-----------------|-----------------------------------------------------------|
01705> R0001:C00219------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01706>     CALIB STANDHYD        1.0 03:FB1           14.70    2.975 No_date    1:02   45.64 .658     .000
01707>       [XIMP=.35:TIMP=.55]
01708>       [LOSS= 2 :CN= 74.0]
01709>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01710>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
01711> #-----------------|-----------------------------------------------------------|
01712> R0001:C00220------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01713>     CALIB STANDHYD        1.0 04:MINOR          .21     .091 No_date    1:00   51.56 .744     .000
01714>       [XIMP=.61:TIMP=.61]
01715>       [LOSS= 2 :CN= 74.0]
01716>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01717>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
01718> #-----------------|-----------------------------------------------------------|
01719> R0001:C00221------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01720>     DIVERT HYD      ->    1.0 04:MINOR          .21     .091 No_date    1:00   51.56  n/a     .000
01721>            diverted <=    1.0 05:MINOR          .18     .035 No_date    1:00   51.56  n/a     .000
01722>            diverted <=    1.0 06:MAJOR          .03     .056 No_date    1:00   51.56  n/a     .000
01723> #-----------------|-----------------------------------------------------------|
01724> R0001:C00222------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01725>     CALIB STANDHYD        1.0 04:FB1-A          .33     .058 No_date    1:05   36.61 .528     .000
01726>       [XIMP=.01:TIMP=.39]
01727>       [LOSS= 2 :CN= 74.0]
01728>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01729>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
01730> #-----------------|-----------------------------------------------------------|
01731> R0001:C00223------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01732>     CALIB STANDHYD        1.0 07:SWMF#2         1.11     .375 No_date    1:00   47.52 .686     .000
01733>       [XIMP=.51:TIMP=.51]
01734>       [LOSS= 2 :CN= 74.0]
01735>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01736>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
01737> #-----------------|-----------------------------------------------------------|
01738> #-----------------|-----------------------------------------------------------|
01739> R0001:C00224------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01740>     ADD HYD               1.0 03:FB1           14.70    2.975 No_date    1:02   45.64  n/a     .000
01741>                     +     1.0 05:MINOR          .18     .035 No_date    1:00   51.56  n/a     .000
01742>                     +     1.0 04:FB1-A          .33     .058 No_date    1:05   36.61  n/a     .000
01743>                     +     1.0 07:SWMF#2         1.11     .375 No_date    1:00   47.52  n/a     .000
01744>                   SUM=    1.0 08:P#2 In        16.32    3.323 No_date    1:02   45.65  n/a     .000
01745> #-----------------|-----------------------------------------------------------|
01746> #-----------------|---------------- SWM Facility #2 ----------------------------|
01747> #-----------------|-----------------------------------------------------------|
01748> R0001:C00225------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01749>     ROUTE RESERVOIR ->    1.0 08:P#2 In        16.32    3.323 No_date    1:02   45.65  n/a     .000
01750>                 out <=    1.0 03:P#2Out        16.32     .413 No_date    2:12   45.65  n/a     .000
01751>           overflow <=     1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
01752>       (MxStoUsed=.5140E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
01753> #-----------------|-----------------------------------------------------------|
01754> R0001:C00226------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01755>     ADD HYD               1.0 03:P#2Out        16.32     .413 No_date    2:12   45.65  n/a     .000
01756>                     +     1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
01757>                   SUM=    1.0 05:P#2 Out       16.32     .413 No_date    2:12   45.65  n/a     .000
01758> #-----------------|-----------------------------------------------------------|
01759> R0001:C00227------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01760>     DIVERT HYD      ->    1.0 05:P#2 Out       16.32     .413 No_date    2:12   45.65  n/a     .000
01761>            diverted <=    1.0 03:PTwoW          3.64     .157 No_date    2:12   45.65  n/a     .000
01762>            diverted <=    1.0 04:PTwoE         12.45     .256 No_date    2:12   45.65  n/a     .000
01763> #-----------------|-----------------------------------------------------------|
01764> #                 |                                                           |
01765> #                 |                 Watercourse Flows- ZONE 2                 |
01766> #                 |                                                           |
01767> #-----------------|-----------------------------------------------------------|
01768> #-----------------|-----------------------------------------------------------|
01769> #-----------------|-------------- East Watercourse Area ----------------------|
01770> #-----------------|--------------       Foley Drain       ----------------------|
01771> #-----------------|-----------------------------------------------------------|
01772> R0001:C00228------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01773>     CALIB NASHYD          1.0 05:Ext-2        417.20    7.726 No_date    3:29   25.74 .371     .000
01774>       [CN= 74.7: N= 3.00: Tp= 1.87]
01775> #-----------------|-----------------------------------------------------------|
01776> R0001:C00229------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01777>     CALIB NASHYD          1.0 07:NAT            6.51     .440 No_date    1:27   30.44 .439     .000
01778>       [CN= 79.1: N= 3.00: Tp=  .36]
01779> #-----------------|-----------------------------------------------------------|
01780> R0001:C00230------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
```

```
01781>     ADD HYD              1.0 05:Ext-2        417.20    7.726 No_date    3:29   25.74  n/a     .000
01782>                    +     1.0 07:NAT            6.51     .440 No_date    1:27   30.44  n/a     .000
01783>                  SUM=    1.0 08:FIn          423.71    7.776 No_date    3:27   25.81  n/a     .000
01784> #----------------|-------------------------------------------------------------|
01785> R0001:C00231------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01786>     ROUTE CHANNEL   ->    1.0 08:FIn          423.71    7.776 No_date    3:27   25.81  n/a     .000
01787>       [RDT= 1.00] out<-   1.0 05:SiteLag      423.71    7.727 No_date    3:38   25.81  n/a     .000
01788>       [L/S/n=  550./ .650/.035]
01789>       (Vmax= 1.098:Dmax= 1.359)
01790> #----------------|-------------------------------------------------------------|
01791> #----------------|-------------------------------------------------------------|
01792> #                |                                                             |
01793> #                |                   Controlled Runoff From ZONE 3             |
01794> #                |                                                             |
01795> #----------------|-------------------------------------------------------------|
01796> #----------------|-------------------------------------------------------------|
01797> R0001:C00232------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01798>     CALIB STANDHYD       1.0 07:FB2           10.10    2.123 No_date    1:02   46.44  .670     .000
01799>       [XIMP=.32:TIMP=.59]
01800>       [LOSS= 2 :CN= 74.0]
01801>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01802>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
01803> #----------------|-------------------------------------------------------------|
01804> R0001:C00233------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01805>     CALIB STANDHYD       1.0 08:SWMF3          1.21     .400 No_date    1:00   47.12 .680     .000
01806>       [XIMP=.50:TIMP=.50]
01807>       [LOSS= 2 :CN= 74.0]
01808>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01809>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
01810> #----------------|-------------------------------------------------------------|
01811> R0001:C00234------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01812>     ADD HYD              1.0 07:FB2           10.10    2.123 No_date    1:02   46.44  n/a     .000
01813>                    +     1.0 08:SWMF3          1.21     .400 No_date    1:00   47.12  n/a     .000
01814>                  SUM=    1.0 09:P3IN          11.31    2.411 No_date    1:02   46.51  n/a     .000
01815> #----------------|-------------------------------------------------------------|
01816> #----------------|-------------------------------------------------------------|
01817> #----------------|---------------- SWM Facility #3 ----------------------------|
01818> #----------------|-------------------------------------------------------------|
01819> R0001:C00235------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01820>     ROUTE RESERVOIR ->    1.0 09:P3IN          11.31    2.411 No_date    1:02   46.51  n/a     .000
01821>                   out <=  1.0 07:P#3Out        11.31     .034 No_date    3:18   46.51  n/a     .000
01822>            overflow <=    1.0 08:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
01823>       (MxStoUsed=.4976E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
01824> #----------------|-------------------------------------------------------------|
01825> R0001:C00236------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01826>     ADD HYD              1.0 04:PTwoE         12.45     .256 No_date    2:12   45.65  n/a     .000
01827>                    +     1.0 05:SiteLag      423.71    7.727 No_date    3:38   25.81  n/a     .000
01828>                    +     1.0 07:P#3Out        11.31     .034 No_date    3:18   46.51  n/a     .000
01829>                    +     1.0 08:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
01830>                  SUM=    1.0 09:Foley Drai   447.47    7.909 No_date    3:35   26.89  n/a     .000
01831> #----------------|-------------------------------------------------------------|
01832> R0001:C00237------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01833>     CALIB NASHYD         1.0 04:Ext 4          6.30     .160 No_date    1:55   17.83 .257     .000
01834>       [CN= 64.8: N= 3.00: Tp=  .64]
01835> #----------------|-------------------------------------------------------------|
01836> R0001:C00238------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01837>     ADD HYD              1.0 09:Foley Drai   447.47    7.909 No_date    3:35   26.89  n/a     .000
01838>                    +     1.0 04:Ext 4          6.30     .160 No_date    1:55   17.83  n/a     .000
01839>                  SUM=    1.0 05:Pt of IntF   453.77    7.966 No_date    3:34   26.76  n/a     .000
01840> #----------------|-------------------------------------------------------------|
01841> R0001:C00239------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01842>     ADD HYD              1.0 01:DS Lag        63.10    1.940 No_date    1:56   30.83  n/a     .000
01843>                    +     1.0 02:Ext 3          1.55     .041 No_date    1:40   15.38  n/a     .000
01844>                    +     1.0 03:PTwoW         3.64     .157 No_date    2:12   45.65  n/a     .000
01845>                    +     1.0 06:MAJOR          .03     .056 No_date    1:00   51.56  n/a     .000
01846>                  SUM=    1.0 10:Pt of IntT    68.32    2.130 No_date    1:56   31.28  n/a     .000
01847> #----------------|-------------------------------------------------------------|
01848> #----------------|-------------------------------------------------------------|
01849> #                |  2222   Y   Y  RRRR      SSSS   CCCC   SSSS                 |
01850> #                |     2   Y Y    R   R     S      C       S                    |
01851> #                |  2222    Y     RRRR       SSSS  C       SSSS                 |
01852> #                |  2       Y     R  R           S C           S              |
01853> #                |  2222    Y     R   R      SSSS   CCCC   SSSS                |
01854> #----------------|-------------------------------------------------------------|
01855> #----------------|-------------------------------------------------------------|
01856> #----------------|---------- 2 YEAR ----------------------------------------|
01857> #----------------|-------------------------------------------------------------|
01858> R0001:C00240------------------------------------------------------------------------------------------
01859>       MASS STORM
01860>        Filename = C:\SWMHYMO\Projects\1060-5384\SCS24H.MST
01861>        Comment  = SCS Type II 24 HR MASS CURVE
01862>       [SDT=15.00:SDUR=  24.00:PTOT=  55.50]
01863> #----------------|-------------------------------------------------------------|
01864> #----------------|-------------------------------------------------------------|
01865> #                |                                                             |
01866> #                |                   Controlled Runoff From ZONE 1             |
01867> #                |                                                             |
01868> #----------------|-------------------------------------------------------------|
01869> #                |                                                             |
01870> #----------------|---------------- SWM Facility #1 Area -----------------------|
01871> #----------------|---------------- West Site Area -------------------------------|
01872> #----------------|-------------------------------------------------------------|
01873> R0001:C00241------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01874>     CALIB NASHYD         1.0 01:Ext 5           .97     .043 No_date   12:10   20.99 .378     .000
01875>       [CN= 77.7: N= 3.00: Tp=  .26]
01876> #----------------|-------------------------------------------------------------|
01877> R0001:C00242------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01878>     CALIB STANDHYD       1.0 02:FB Z1-1       12.37     .918 No_date   12:03   32.37 .583     .000
01879>       [XIMP=.30:TIMP=.50]
01880>       [LOSS= 2 :CN= 74.0]
01881>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01882>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
01883> #----------------|-------------------------------------------------------------|
01884> R0001:C00243------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01885>     CALIB STANDHYD       1.0 03:FB Z1-3         .98     .086 No_date   12:00   32.37 .583     .000
01886>       [XIMP=.30:TIMP=.50]
01887>       [LOSS= 2 :CN= 74.0]
01888>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01889>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
01890> #----------------|-------------------------------------------------------------|
01891> R0001:C00244------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01892>     CALIB STANDHYD       1.0 04:SWMF#1         1.90     .196 No_date   12:00   35.88 .646     .000
01893>       [XIMP=.50:TIMP=.50]
01894>       [LOSS= 2 :CN= 74.0]
01895>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01896>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
01897> #----------------|-------------------------------------------------------------|
01898> R0001:C00245------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01899>     ADD HYD              1.0 01:Ext 5           .97     .043 No_date   12:10   20.99  n/a     .000
01900>                    +     1.0 02:FB Z1-1       12.37     .918 No_date   12:03   32.37  n/a     .000
01901>                    +     1.0 03:FB Z1-3         .98     .086 No_date   12:00   32.37  n/a     .000
01902>                    +     1.0 04:SWMF#1         1.90     .196 No_date   12:00   35.88  n/a     .000
01903>                  SUM=    1.0 05:P#1 IN        16.22    1.208 No_date   12:02   32.10  n/a     .000
01904> #----------------|-------------------------------------------------------------|
01905> #----------------|---------------- SWM Facility #1 ----------------------------|
01906> #----------------|-------------------------------------------------------------|
01907> R0001:C00246------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01908>     ROUTE RESERVOIR ->    1.0 05:P#1 IN        16.22    1.208 No_date   12:02   32.10  n/a     .000
01909>                   out <=  1.0 01:P#1Out        16.22    .019 No_date   24:06   32.10  n/a     .000
01910>            overflow <=    1.0 02:P#1Over        .00     .000 No_date    0:00     .00  n/a     .000
01911>       (MxStoUsed=.4292E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
01912> #----------------|-------------------------------------------------------------|
01913> #----------------|-------------------------------------------------------------|
01914> #                |                                                             |
01915> #                |                  Watercourse Flows- ZONE 1                  |
01916> #                |                                                             |
01917> #----------------|-------------------------------------------------------------|
01918> #----------------|-------------------------------------------------------------|
01919> #----------------|-------------- West Watercourse Area ------------------------|
01920> #----------------|-------------- Small Unnmaed Tributary ----------------------|
01921> #----------------|-------------------------------------------------------------|
01922> R0001:C00247------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01923>     CALIB NASHYD         1.0 03:Ext 1          41.20     .862 No_date   12:32   17.66 .318     .000
01924>       [CN= 74.1: N= 3.00: Tp=  .57]
01925> #----------------|-------------------------------------------------------------|
01926> R0001:C00248------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01927>     ROUTE CHANNEL   ->    1.0 03:Ext 1          41.20     .862 No_date   12:32   17.66  n/a     .000
01928>       [RDT= 1.00] out<-   1.0 04:SiteLag       41.20     .827 No_date   12:41   17.66  n/a     .000
01929>       [L/S/n=  425./ .960/.035]
01930>       (Vmax=  .769:Dmax=  .328)
01931> R0001:C00249------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01932>     CALIB NASHYD         1.0 05:FB Z1-2         5.68     .170 No_date   12:19   19.29 .348     .000
01933>       [CN= 77.0: N= 3.00: Tp=  .40]
01934> #----------------|-------------------------------------------------------------|
01935> #----------------|------- Total Flow at South Property Line -------------------|
01936> #----------------|-------------------------------------------------------------|
01937> R0001:C00250------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01938>     ADD HYD              1.0 01:P#1Out        16.22     .019 No_date   24:06   32.10  n/a     .000
01939>                    +     1.0 02:P#1Over        .00     .000 No_date    0:00     .00  n/a     .000
01940>                    +     1.0 04:SiteLag       41.20     .827 No_date   12:41   17.66  n/a     .000
01941>                    +     1.0 05:FB Z1-2        5.68     .170 No_date   12:19   19.29  n/a     .000
01942>                  SUM=    1.0 03:UnC PL        63.10     .973 No_date   12:38   21.52  n/a     .000
01943> #----------------|-------------------------------------------------------------|
01944> R0001:C00251------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01945>     ROUTE CHANNEL   ->    1.0 03:UnC PL        63.10     .973 No_date   12:38   21.52  n/a     .000
01946>       [RDT= 1.00] out<-   1.0 01:DS Lag        63.10     .968 No_date   12:41   21.52  n/a     .000
01947>       [L/S/n=  150./ .960/.035]
01948>       (Vmax=  .776:Dmax=  .342)
01949> #----------------|-------------------------------------------------------------|
01950> R0001:C00252------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01951>     CALIB NASHYD         1.0 02:Ext 3           1.55     .019 No_date   12:26    9.64 .174     .000
01952>       [CN= 60.0: N= 3.00: Tp=  .47]
01953> #----------------|-------------------------------------------------------------|
01954> #----------------|-------------------------------------------------------------|
01955> #                |                                                             |
01956> #                |                   Controlled Runoff From ZONE 2             |
01957> #                |                                                             |
01958> #----------------|-------------------------------------------------------------|
01959> #----------------|-------------------------------------------------------------|
01960> R0001:C00253------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01961>     CALIB STANDHYD       1.0 03:FB1           14.70    1.176 No_date   12:03   34.19 .616     .000
01962>       [XIMP=.35:TIMP=.55]
01963>       [LOSS= 2 :CN= 74.0]
01964>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01965>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
01966> #----------------|-------------------------------------------------------------|
01967> R0001:C00254------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01968>     CALIB STANDHYD       1.0 04:MINOR           .21     .027 No_date   12:00   39.75 .716     .000
01969>       [XIMP=.61:TIMP=.61]
01970>       [LOSS= 2 :CN= 74.0]
01971>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01972>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
01973> #----------------|-------------------------------------------------------------|
01974> R0001:C00255------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01975>     DIVERT HYD      ->    1.0 04:MINOR           .21     .027 No_date   12:00   39.75  n/a     .000
01976>                   diverted <=  1.0 05:MINOR     .21     .027 No_date   12:00   39.75  n/a     .000
01977>                   diverted <=  1.0 06:MAJOR     .00     .000 No_date    0:00     .00  n/a     .000
01978> #----------------|-------------------------------------------------------------|
01979> R0001:C00256------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01980>     CALIB STANDHYD       1.0 04:FB1-A          .33     .023 No_date   12:05   25.96 .468     .000
01981>       [XIMP=.01:TIMP=.39]
01982>       [LOSS= 2 :CN= 74.0]
01983>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01984>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
01985> #----------------|-------------------------------------------------------------|
01986> R0001:C00257------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01987>     CALIB STANDHYD       1.0 07:SWMF#2         1.11     .119 No_date   12:00   36.23 .653     .000
01988>       [XIMP=.51:TIMP=.51]
01989>       [LOSS= 2 :CN= 74.0]
01990>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01991>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
01992> #----------------|-------------------------------------------------------------|
01993> #----------------|-------------------------------------------------------------|
01994> R0001:C00258------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01995>     ADD HYD              1.0 03:FB1           14.70    1.176 No_date   12:03   34.19  n/a     .000
01996>                    +     1.0 05:MINOR           .21     .027 No_date   12:00   39.75  n/a     .000
01997>                    +     1.0 04:FB1-A           .33     .023 No_date   12:05   25.96  n/a     .000
01998>                    +     1.0 07:SWMF#2         1.11     .119 No_date   12:00   36.23  n/a     .000
01999>                  SUM=    1.0 08:P#2 In        16.35    1.312 No_date   12:02   34.23  n/a     .000
02000> #----------------|-------------------------------------------------------------|
02001> #----------------|---------------- SWM Facility #2 ----------------------------|
02002> #----------------|-------------------------------------------------------------|
02003> R0001:C00259------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02004>     ROUTE RESERVOIR ->    1.0 08:P#2 In        16.35    1.312 No_date   12:02   34.23  n/a     .000
02005>                   out <=  1.0 03:P#2Out        16.35     .105 No_date   13:38   34.23  n/a     .000
02006>            overflow <=    1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
02007>       (MxStoUsed=.3454E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02008> #----------------|-------------------------------------------------------------|
02009> R0001:C00260------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02010>     ADD HYD              1.0 03:P#2Out        16.35     .105 No_date   13:38   34.23  n/a     .000
02011>                    +     1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
02012>                  SUM=    1.0 05:P#2 Out       16.35     .105 No_date   13:38   34.23  n/a     .000
02013> #----------------|-------------------------------------------------------------|
02014> R0001:C00261------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02015>     DIVERT HYD      ->    1.0 05:P#2 Out       16.35     .105 No_date   13:38   34.23  n/a     .000
02016>                   diverted <=  1.0 03:PTwoW     1.58     .032 No_date   13:38   34.23  n/a     .000
02017>                   diverted <=  1.0 04:PTwoE    14.46     .074 No_date   13:38   34.23  n/a     .000
02018> #----------------|-------------------------------------------------------------|
02019> #                |                                                             |
02020> #                |                  Watercourse Flows- ZONE 2                  |
02021> #                |                                                             |
02022> #----------------|-------------------------------------------------------------|
02023> #----------------|-------------------------------------------------------------|
02024> #----------------|---------------- East Watercourse Area ----------------------|
02025> #----------------|---------------     Foley Drain     ---------------------------|
02026> #----------------|-------------------------------------------------------------|
02027> R0001:C00262------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02028>     CALIB NASHYD         1.0 05:Ext-2         417.20    3.436 No_date   14:08   17.10 .308     .000
02029>       [CN= 74.7: N= 3.00: Tp= 1.87]
02030> #----------------|-------------------------------------------------------------|
02031> R0001:C00263------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02032>     CALIB NASHYD         1.0 07:NAT            6.51     .228 No_date   12:16   20.75 .374     .000
02033>       [CN= 79.1: N= 3.00: Tp=  .36]
02034> #----------------|-------------------------------------------------------------|
02035> R0001:C00264------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02036>     ADD HYD              1.0 05:Ext-2         417.20    3.436 No_date   14:08   17.10  n/a     .000
02037>                    +     1.0 07:NAT            6.51     .228 No_date   12:16   20.75  n/a     .000
02038>                  SUM=    1.0 08:FIn           423.71    3.464 No_date   14:07   17.16  n/a     .000
02039> #----------------|-------------------------------------------------------------|
02040> R0001:C00265------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02041>     ROUTE CHANNEL   ->    1.0 08:FIn           423.71    3.464 No_date   14:07   17.16  n/a     .000
02042>       [RDT= 1.00] out<-   1.0 05:SiteLag       423.71    3.454 No_date   14:13   17.16  n/a     .000
02043>       [L/S/n=  550./ .650/.035]
02044>       (Vmax= 1.116:Dmax= 1.099)
02045> #----------------|-------------------------------------------------------------|
02046> #----------------|-------------------------------------------------------------|
02047> #                |                                                             |
02048> #                |                   Controlled Runoff From ZONE 3             |
02049> #                |                                                             |
02050> #----------------|-------------------------------------------------------------|
02051> #----------------|-------------------------------------------------------------|
02052> R0001:C00266------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02053>     CALIB STANDHYD       1.0 07:FB2           10.10     .860 No_date   12:02   34.77 .626     .000
02054>       [XIMP=.32:TIMP=.59]
02055>       [LOSS= 2 :CN= 74.0]
02056>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02057>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
02058> #----------------|-------------------------------------------------------------|
02059> R0001:C00267------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02060>     CALIB STANDHYD       1.0 08:SWMF3          1.21     .128 No_date   12:00   35.88 .646     .000
02061>       [XIMP=.50:TIMP=.50]
02062>       [LOSS= 2 :CN= 74.0]
02063>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02064>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
02065> #----------------|-------------------------------------------------------------|
02066> R0001:C00268------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02067>     ADD HYD              1.0 07:FB2           10.10     .860 No_date   12:02   34.77  n/a     .000
02068>                    +     1.0 08:SWMF3          1.21     .128 No_date   12:00   35.88  n/a     .000
02069>                  SUM=    1.0 09:P3IN          11.31     .972 No_date   12:01   34.89  n/a     .000
02070> #----------------|-------------------------------------------------------------|
02071> #----------------|-------------------------------------------------------------|
02072> #----------------|---------------- SWM Facility #3 ----------------------------|
02073> #----------------|-------------------------------------------------------------|
02074> R0001:C00269------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02075>     ROUTE RESERVOIR ->    1.0 09:P3IN          11.31     .972 No_date   12:01   34.89  n/a     .000
02076>                   out <=  1.0 07:P#3Out        11.31     .027 No_date   16:27   34.88  n/a     .000
02077>            overflow <=    1.0 08:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
02078>       (MxStoUsed=.2814E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02079> #----------------|-------------------------------------------------------------|
02080> R0001:C00270------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02081>     ADD HYD              1.0 04:PTwoE         14.46     .074 No_date   13:38   34.23  n/a     .000
02082>                    +     1.0 05:SiteLag      423.71    3.454 No_date   14:13   17.16  n/a     .000
02083>                    +     1.0 07:P#3Out        11.31     .027 No_date   16:27   34.88  n/a     .000
02084>                    +     1.0 08:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
02085>                  SUM=    1.0 09:Foley Drai   449.48    3.553 No_date   14:13   18.15  n/a     .000
02086> #----------------|-------------------------------------------------------------|
02087> R0001:C00271------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02088>     CALIB NASHYD         1.0 04:Ext 4          6.30     .073 No_date   12:39   11.28 .203     .000
02089>       [CN= 64.8: N= 3.00: Tp=  .64]
02090> #----------------|-------------------------------------------------------------|
02091> R0001:C00272------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02092>     ADD HYD              1.0 09:Foley Drai   449.48    3.553 No_date   14:13   18.15  n/a     .000
02093>                    +     1.0 04:Ext 4          6.30     .073 No_date   12:39   11.28  n/a     .000
02094>                  SUM=    1.0 05:Pt of IntF   455.78    3.577 No_date   14:12   18.06  n/a     .000
02095> #----------------|-------------------------------------------------------------|
02096> R0001:C00273------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02097>     ADD HYD              1.0 01:DS Lag        63.10     .968 No_date   12:41   21.52  n/a     .000
02098>                    +     1.0 02:Ext 3          1.55     .019 No_date   12:26    9.64  n/a     .000
02099>                    +     1.0 03:PTwoW         1.58     .032 No_date   13:38   34.23  n/a     .000
02100>                    +     1.0 06:MAJOR          .00     .000 No_date    0:00     .00  n/a     .000
02101>                  SUM=    1.0 10:Pt of IntT    66.23    1.005 No_date   12:41   21.54  n/a     .000
02102> #----------------|-------------------------------------------------------------|
02103> #----------------|-------------------------------------------------------------|
02104> #                |  5555   Y   Y  RRRR      SSSS   CCCC   SSSS                 |
02105> #                |     5   Y Y    R   R     S      C       S                    |
02106> #                |  5555    Y     RRRR       SSSS  C       SSSS                 |
02107> #                |     5    Y     R  R           S C           S              |
02108> #                |  5555    Y     R   R      SSSS   CCCC   SSSS                |
02109> #----------------|-------------------------------------------------------------|
02110> #----------------|-------------------------------------------------------------|
02111> #----------------|---------- 5 YEAR ----------------------------------------|
02112> #----------------|-------------------------------------------------------------|
02113> R0001:C00274------------------------------------------------------------------------------------------
02114>       MASS STORM
02115>        Filename = C:\SWMHYMO\Projects\1060-5384\SCS24H.MST
02116>        Comment  = SCS Type II 24 HR MASS CURVE
02117>       [SDT=15.00:SDUR=  24.00:PTOT=  75.10]
02118> #----------------|-------------------------------------------------------------|
02119> #----------------|-------------------------------------------------------------|
02120> #                |                                                             |
02121> #                |                   Controlled Runoff From ZONE 1             |
02122> #                |                                                             |
02123> #----------------|-------------------------------------------------------------|
02124> #                |                                                             |
02125> #----------------|---------------- SWM Facility #1 Area -----------------------|
02126> #----------------|---------------- West Site Area -------------------------------|
02127> #----------------|-------------------------------------------------------------|
02128> R0001:C00275------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02129>     CALIB NASHYD         1.0 01:Ext 5           .97     .073 No_date   12:09   34.73 .463     .000
02130>       [CN= 77.7: N= 3.00: Tp=  .26]
02131> #----------------|-------------------------------------------------------------|
02132> R0001:C00276------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02133>     CALIB STANDHYD       1.0 02:FB Z1-1       12.37    1.496 No_date   12:02   48.41 .645     .000
02134>       [XIMP=.30:TIMP=.50]
02135>       [LOSS= 2 :CN= 74.0]
02136>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
```

```
02137>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
02138> #-----------------|-------------------------------------------------------------|
02139> R0001:C00277----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02140>     CALIB STANDHYD        1.0 03:FB Z1-3          .98     .136 No_date   12:00   48.41 .645     .000
02141>       [XIMP=.30:TIMP=.50]
02142>       [LOSS= 2 :CN= 74.0]
02143>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02144>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
02145> #-----------------|-------------------------------------------------------------|
02146> R0001:C00278----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02147>     CALIB STANDHYD        1.0 04:SWMF#1          1.90     .293 No_date   12:00   51.97 .692     .000
02148>       [XIMP=.50:TIMP=.50]
02149>       [LOSS= 2 :CN= 74.0]
02150>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02151>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
02152> #-----------------|-------------------------------------------------------------|
02153> R0001:C00279----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02154>     ADD HYD               1.0 01:Ext 5           .97     .073 No_date   12:09   34.73  n/a     .000
02155>                     +     1.0 02:FB Z1-1       12.37    1.496 No_date   12:02   48.41  n/a     .000
02156>                     +     1.0 03:FB Z1-3        .98     .136 No_date   12:00   48.41  n/a     .000
02157>                     +     1.0 04:SWMF#1        1.90     .293 No_date   12:00   51.97  n/a     .000
02158>                   SUM=    1.0 05:P#1 IN       16.22    1.956 No_date   12:02   48.01  n/a     .000
02159> #-----------------|-------------------------------------------------------------|
02160> #-----------------|---------------- SWM Facility #1 ----------------------------|
02161> #-----------------|-------------------------------------------------------------|
02162> R0001:C00280----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02163>     ROUTE RESERVOIR ->    1.0 05:P#1 IN        16.22    1.956 No_date   12:02   48.01  n/a     .000
02164>                   out <=  1.0 01:P#1Out        16.22     .021 No_date   24:09   48.00  n/a     .000
02165>             overflow <=   1.0 02:P#1Over         .00     .000 No_date    0:00     .00  n/a     .000
02166>      (MxStoUsed=.6709E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02167> #-----------------|-------------------------------------------------------------|
02168> #-----------------|-------------------------------------------------------------|
02169> #                 |                                                             |
02170> #                 |                     Watercourse Flows- ZONE 1               |
02171> #                 |                                                             |
02172> #-----------------|-------------------------------------------------------------|
02173> #-----------------|-------------------------------------------------------------|
02174> #-----------------|--------------- West Watercourse Area -----------------------|
02175> #-----------------|------------- Small Unnmaed Tributary -----------------------|
02176> #-----------------|-------------------------------------------------------------|
02177> R0001:C00281----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02178>     CALIB NASHYD          1.0 03:Ext 1         41.20    1.504 No_date   12:31   30.17 .402     .000
02179>       [CN= 74.1: N= 3.00: Tp=  .57]
02180> #-----------------|-------------------------------------------------------------|
02181> R0001:C00282----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02182>     ROUTE CHANNEL    ->   1.0 03:Ext 1         41.20    1.504 No_date   12:31   30.17  n/a     .000
02183>      [RDT= 1.00] out<-    1.0 04:SiteLag       41.20    1.439 No_date   12:41   30.17  n/a     .000
02184>       [L/S/n=  425./ .960/.035]
02185>       (Vmax=  .785:Dmax=  .392)
02186> R0001:C00283----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02187>     CALIB NASHYD          1.0 05:FB Z1-2         5.68     .294 No_date   12:19   32.65 .435     .000
02188>       [CN= 77.0: N= 3.00: Tp=  .40]
02189> #-----------------|-------------------------------------------------------------|
02190> #-----------------|-------- Total Flow at South Property Line ----------------|
02191> #-----------------|-------------------------------------------------------------|
02192> R0001:C00284----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02193>     ADD HYD               1.0 01:P#1Out        16.22     .021 No_date   24:09   48.00  n/a     .000
02194>                     +     1.0 02:P#1Over        .00     .000 No_date    0:00     .00  n/a     .000
02195>                     +     1.0 04:SiteLag       41.20    1.439 No_date   12:41   30.17  n/a     .000
02196>                     +     1.0 05:FB Z1-2        5.68     .294 No_date   12:19   32.65  n/a     .000
02197>                   SUM=    1.0 03:UnC PL        63.10    1.677 No_date   12:37   34.98  n/a     .000
02198> #-----------------|-------------------------------------------------------------|
02199> R0001:C00285----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02200>     ROUTE CHANNEL    ->   1.0 03:UnC PL        63.10    1.677 No_date   12:37   34.98  n/a     .000
02201>      [RDT= 1.00] out<-    1.0 01:DS Lag        63.10    1.669 No_date   12:41   34.98  n/a     .000
02202>       [L/S/n=  150./ .960/.035]
02203>       (Vmax=  .784:Dmax=  .405)
02204> #-----------------|-------------------------------------------------------------|
02205> R0001:C00286----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02206>     CALIB NASHYD          1.0 02:Ext 3          1.55     .037 No_date   12:25   18.08 .241     .000
02207>       [CN= 60.0: N= 3.00: Tp=  .47]
02208> #-----------------|-------------------------------------------------------------|
02209> #-----------------|-------------------------------------------------------------|
02210> #                 |                                                             |
02211> #                 |                     Controlled Runoff From ZONE 2           |
02212> #                 |                                                             |
02213> #-----------------|-------------------------------------------------------------|
02214> #-----------------|-------------------------------------------------------------|
02215> R0001:C00287----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02216>     CALIB STANDHYD        1.0 03:FB1           14.70    1.884 No_date   12:02   50.59 .674     .000
02217>       [XIMP=.35:TIMP=.55]
02218>       [LOSS= 2 :CN= 74.0]
02219>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02220>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
02221> #-----------------|-------------------------------------------------------------|
02222> R0001:C00288----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02223>     CALIB STANDHYD        1.0 04:MINOR           .21     .038 No_date   12:00   56.62 .754     .000
02224>       [XIMP=.61:TIMP=.61]
02225>       [LOSS= 2 :CN= 74.0]
02226>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02227>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
02228> #-----------------|-------------------------------------------------------------|
02229> R0001:C00289----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02230>     DIVERT HYD       ->   1.0 04:MINOR           .21     .038 No_date   12:00   56.62  n/a     .000
02231>             diverted <=   1.0 05:MINOR           .21     .035 No_date   12:00   56.62  n/a     .000
02232>             diverted <=   1.0 06:MAJOR           .00     .003 No_date   12:00   56.62  n/a     .000
02233> #-----------------|-------------------------------------------------------------|
02234> R0001:C00290----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02235>     CALIB STANDHYD        1.0 04:FB1-A           .33     .040 No_date   12:03   41.29 .550     .000
02236>       [XIMP=.01:TIMP=.39]
02237>       [LOSS= 2 :CN= 74.0]
02238>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02239>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
02240> #-----------------|-------------------------------------------------------------|
02241> R0001:C00291----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02242>     CALIB STANDHYD        1.0 07:SWMF#2          1.11     .176 No_date   12:00   52.39 .698     .000
02243>       [XIMP=.51:TIMP=.51]
02244>       [LOSS= 2 :CN= 74.0]
02245>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02246>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
02247> #-----------------|-------------------------------------------------------------|
02248> #-----------------|-------------------------------------------------------------|
02249> R0001:C00292----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02250>     ADD HYD               1.0 03:FB1           14.70    1.884 No_date   12:02   50.59  n/a     .000
02251>                     +     1.0 05:MINOR          .21     .035 No_date   12:00   56.62  n/a     .000
02252>                     +     1.0 04:FB1-A          .33     .040 No_date   12:03   41.29  n/a     .000
02253>                     +     1.0 07:SWMF#2        1.11     .176 No_date   12:00   52.39  n/a     .000
02254>                   SUM=    1.0 08:P#2 In        16.35    2.104 No_date   12:01   50.60  n/a     .000
02255> #-----------------|-------------------------------------------------------------|
02256> #-----------------|---------------- SWM Facility #2 ----------------------------|
02257> #-----------------|-------------------------------------------------------------|
02258> R0001:C00293----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02259>     ROUTE RESERVOIR ->    1.0 08:P#2 In        16.35    2.104 No_date   12:01   50.60  n/a     .000
02260>                   out <=  1.0 03:P#2Out        16.35    .293 No_date   12:51   50.60  n/a     .000
02261>             overflow <=   1.0 04:P#2Over         .00     .000 No_date    0:00     .00  n/a     .000
02262>      (MxStoUsed=.4650E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02263> #-----------------|-------------------------------------------------------------|
02264> R0001:C00294----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02265>     ADD HYD               1.0 03:P#2Out        16.35     .293 No_date   12:51   50.60  n/a     .000
02266>                     +     1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
02267>                   SUM=    1.0 05:P#2 Out       16.35     .293 No_date   12:51   50.60  n/a     .000
02268> #-----------------|-------------------------------------------------------------|
02269> R0001:C00295----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02270>     DIVERT HYD       ->   1.0 05:P#2 Out        16.35     .293 No_date   12:51   50.60  n/a     .000
02271>             diverted <=   1.0 03:PTwoW          3.33     .116 No_date   12:51   50.60  n/a     .000
02272>             diverted <=   1.0 04:PTwoE          12.80     .178 No_date   12:51   50.60  n/a     .000
02273> #-----------------|-------------------------------------------------------------|
02274> #-----------------|-------------------------------------------------------------|
02275> #                 |                                                             |
02276> #                 |                     Watercourse Flows- ZONE 2               |
02277> #                 |                                                             |
02278> #-----------------|-------------------------------------------------------------|
02279> #-----------------|------------- East Watercourse Area -----------------------|
02280> #-----------------|------------------     Foley Drain     -----------------------|
02281> #-----------------|-------------------------------------------------------------|
02282> R0001:C00296----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02283>     CALIB NASHYD          1.0 05:Ext-2        417.20    6.110 No_date   14:04   29.64 .395     .000
02284>       [CN= 74.7: N= 3.00: Tp= 1.87]
02285> #-----------------|-------------------------------------------------------------|
02286> R0001:C00297----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02287>     CALIB NASHYD          1.0 07:NAT            6.51     .390 No_date   12:16   34.75 .463     .000
02288>       [CN= 79.1: N= 3.00: Tp=  .36]
02289> #-----------------|-------------------------------------------------------------|
02290> R0001:C00298----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02291>     ADD HYD               1.0 05:Ext-2        417.20    6.110 No_date   14:04   29.64  n/a     .000
02292>                     +     1.0 07:NAT            6.51     .390 No_date   12:16   34.75  n/a     .000
02293>                   SUM=    1.0 08:FIn           423.71    6.155 No_date   14:04   29.72  n/a     .000
02294> #-----------------|-------------------------------------------------------------|
02295> R0001:C00299----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02296>     ROUTE CHANNEL    ->   1.0 08:FIn           423.71    6.155 No_date   14:04   29.72  n/a     .000
02297>      [RDT= 1.00] out<-    1.0 05:SiteLag       423.71    6.129 No_date   14:13   29.72  n/a     .000
02298>       [L/S/n=  550./ .650/.035]
02299>       (Vmax= 1.158:Dmax= 1.289)
02300> #-----------------|-------------------------------------------------------------|
02301> #-----------------|-------------------------------------------------------------|
02302> #                 |                                                             |
02303> #                 |                     Controlled Runoff From ZONE 3           |
02304> #                 |                                                             |
02305> #-----------------|-------------------------------------------------------------|
02306> #-----------------|-------------------------------------------------------------|
02307> R0001:C00300----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02308>     CALIB STANDHYD        1.0 07:FB2           10.10    1.365 No_date   12:02   51.47 .685     .000
02309>       [XIMP=.32:TIMP=.59]
02310>       [LOSS= 2 :CN= 74.0]
02311>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02312>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
02313> #-----------------|-------------------------------------------------------------|
02314> R0001:C00301----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02315>     CALIB STANDHYD        1.0 08:SWMF3          1.21     .189 No_date   12:00   51.97 .692     .000
02316>       [XIMP=.50:TIMP=.50]
02317>       [LOSS= 2 :CN= 74.0]
02318>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02319>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
02320> #-----------------|-------------------------------------------------------------|
02321> R0001:C00302----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02322>     ADD HYD               1.0 07:FB2           10.10    1.365 No_date   12:02   51.47  n/a     .000
02323>                     +     1.0 08:SWMF3          1.21     .189 No_date   12:00   51.97  n/a     .000
02324>                   SUM=    1.0 09:P3IN          11.31    1.533 No_date   12:01   51.53  n/a     .000
02325> #-----------------|-------------------------------------------------------------|
02326> #-----------------|-------------------------------------------------------------|
02327> #-----------------|---------------- SWM Facility #3 ----------------------------|
02328> #-----------------|-------------------------------------------------------------|
02329> R0001:C00303----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02330>     ROUTE RESERVOIR ->    1.0 09:P3IN          11.31    1.533 No_date   12:01   51.53  n/a     .000
02331>                   out <=  1.0 07:P#3Out        11.31     .033 No_date   20:05   51.53  n/a     .000
02332>             overflow <=   1.0 08:P#3Over         .00     .000 No_date    0:00     .00  n/a     .000
02333>      (MxStoUsed=.4351E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02334> #-----------------|-------------------------------------------------------------|
02335> R0001:C00304----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02336>     ADD HYD               1.0 04:PTwoE         12.80     .178 No_date   12:51   50.60  n/a     .000
02337>                     +     1.0 05:SiteLag       423.71    6.129 No_date   14:13   29.72  n/a     .000
02338>                     +     1.0 07:P#3Out        11.31     .033 No_date   20:05   51.53  n/a     .000
02339>                     +     1.0 08:P#3Over        .00     .000 No_date    0:00     .00  n/a     .000
02340>                   SUM=    1.0 09:Foley Drai    447.82    6.288 No_date   14:13   30.87  n/a     .000
02341> #-----------------|-------------------------------------------------------------|
02342> R0001:C00305----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02343>     CALIB NASHYD          1.0 04:Ext 4          6.30     .141 No_date   12:38   20.87 .278     .000
02344>       [CN= 64.8: N= 3.00: Tp=  .64]
02345> #-----------------|-------------------------------------------------------------|
02346> R0001:C00306----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02347>     ADD HYD               1.0 09:Foley Drai    447.82    6.288 No_date   14:13   30.87  n/a     .000
02348>                     +     1.0 04:Ext 4          6.30     .141 No_date   12:38   20.87  n/a     .000
02349>                   SUM=    1.0 05:Pt of IntF    454.12    6.330 No_date   14:12   30.73  n/a     .000
02350> #-----------------|-------------------------------------------------------------|
02351> R0001:C00307----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02352>     ADD HYD               1.0 01:DS Lag        63.10    1.669 No_date   12:41   34.98  n/a     .000
02353>                     +     1.0 02:Ext 3          1.55     .037 No_date   12:25   18.08  n/a     .000
02354>                     +     1.0 03:PTwoW          3.33     .116 No_date   12:51   50.60  n/a     .000
02355>                     +     1.0 06:MAJOR          .00     .003 No_date   12:00   56.62  n/a     .000
02356>                   SUM=    1.0 10:Pt of IntT    67.98    1.814 No_date   12:41   35.36  n/a     .000
02357> #-----------------|-------------------------------------------------------------|
02358> #-----------------|-------------------------------------------------------------|
02359> #                 11     000   Y   Y  RRRR       SSSS   CCCC   SSSS              |
02360> #                1 1    0  0   Y Y   R   R     S      C      S                    |
02361> #                1  1   0  0    Y    RRRR       SSSS  C       SSSS                |
02362> #                1   1  0  0    Y    R  R            S C           S             |
02363> #               11111   000     Y    R   R      SSSS   CCCC   SSSS              |
02364> #-----------------|-------------------------------------------------------------|
02365> #-----------------|-------------------------------------------------------------|
02366> #-----------------|-------- 10 YEAR ----------------------------------------|
02367> #-----------------|-------------------------------------------------------------|
02368> R0001:C00308----------------------------------------------------------------------
02369>       MASS STORM
02370>        Filename = C:\SWMHYMO\Projects\1060-5384\SCS24H.MST
02371>        Comment  = SCS Type II 24 HR MASS CURVE
02372>        [SDT=15.00:SDUR=  24.00:PTOT=  88.10]
02373> #-----------------|-------------------------------------------------------------|
02374> #-----------------|-------------------------------------------------------------|
02375> #                 |                                                             |
02376> #                 |                     Controlled Runoff From ZONE 1           |
02377> #                 |                                                             |
02378> #-----------------|-------------------------------------------------------------|
02379> #                 |                                                             |
02380> #-----------------|---------------- SWM Facility #1 ----------------------------|
02381> #-----------------|------------------ West Site Area ------------------------|
02382> #-----------------|-------------------------------------------------------------|
02383> R0001:C00309----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02384>     CALIB NASHYD          1.0 01:Ext 5           .97     .094 No_date   12:09   44.66 .507     .000
02385>       [CN= 77.7: N= 3.00: Tp=  .26]
02386> #-----------------|-------------------------------------------------------------|
02387> R0001:C00310----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02388>     CALIB STANDHYD        1.0 02:FB Z1-1       12.37    1.915 No_date   12:02   59.56 .676     .000
02389>       [XIMP=.30:TIMP=.50]
02390>       [LOSS= 2 :CN= 74.0]
02391>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02392>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
02393> #-----------------|-------------------------------------------------------------|
02394> R0001:C00311----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02395>     CALIB STANDHYD        1.0 03:FB Z1-3          .98     .174 No_date   12:00   59.56 .676     .000
02396>       [XIMP=.30:TIMP=.50]
02397>       [LOSS= 2 :CN= 74.0]
02398>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02399>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
02400> #-----------------|-------------------------------------------------------------|
02401> R0001:C00312----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02402>     CALIB STANDHYD        1.0 04:SWMF#1          1.90     .362 No_date   12:00   63.08 .716     .000
02403>       [XIMP=.50:TIMP=.50]
02404>       [LOSS= 2 :CN= 74.0]
02405>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02406>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
02407> #-----------------|-------------------------------------------------------------|
02408> R0001:C00313----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02409>     ADD HYD               1.0 01:Ext 5           .97     .094 No_date   12:09   44.66  n/a     .000
02410>                     +     1.0 02:FB Z1-1       12.37    1.915 No_date   12:02   59.56  n/a     .000
02411>                     +     1.0 03:FB Z1-3        .98     .174 No_date   12:00   59.56  n/a     .000
02412>                     +     1.0 04:SWMF#1         1.90     .362 No_date   12:00   63.08  n/a     .000
02413>                   SUM=    1.0 05:P#1 IN        16.22    2.485 No_date   12:01   59.08  n/a     .000
02414> #-----------------|-------------------------------------------------------------|
02415> #-----------------|---------------- SWM Facility #1 ----------------------------|
02416> #-----------------|-------------------------------------------------------------|
02417> R0001:C00314----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02418>     ROUTE RESERVOIR ->    1.0 05:P#1 IN        16.22    2.485 No_date   12:01   59.08  n/a     .000
02419>                   out <=  1.0 01:P#1Out        16.22    .044 No_date   20:23   59.08  n/a     .000
02420>             overflow <=   1.0 02:P#1Over         .00     .000 No_date    0:00     .00  n/a     .000
02421>      (MxStoUsed=.7904E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02422> #-----------------|-------------------------------------------------------------|
02423> #-----------------|-------------------------------------------------------------|
02424> #                 |                                                             |
02425> #                 |                     Watercourse Flows- ZONE 1               |
02426> #                 |                                                             |
02427> #-----------------|-------------------------------------------------------------|
02428> #-----------------|-------------------------------------------------------------|
02429> #-----------------|--------------- West Watercourse Area -----------------------|
02430> #-----------------|------------- Small Unnmaed Tributary -----------------------|
02431> #-----------------|-------------------------------------------------------------|
02432> R0001:C00315----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02433>     CALIB NASHYD          1.0 03:Ext 1         41.20    1.980 No_date   12:31   39.37 .447     .000
02434>       [CN= 74.1: N= 3.00: Tp=  .57]
02435> #-----------------|-------------------------------------------------------------|
02436> R0001:C00316----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02437>     ROUTE CHANNEL    ->   1.0 03:Ext 1         41.20    1.980 No_date   12:31   39.37  n/a     .000
02438>      [RDT= 1.00] out<-    1.0 04:SiteLag       41.20    1.890 No_date   12:41   39.37  n/a     .000
02439>       [L/S/n=  425./ .960/.035]
02440>       (Vmax=  .777:Dmax=  .424)
02441> R0001:C00317----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02442>     CALIB NASHYD          1.0 05:FB Z1-2         5.68     .384 No_date   12:18   42.36 .481     .000
02443>       [CN= 77.0: N= 3.00: Tp=  .40]
02444> #-----------------|-------------------------------------------------------------|
02445> #-----------------|-------- Total Flow at South Property Line ----------------|
02446> #-----------------|-------------------------------------------------------------|
02447> R0001:C00318----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02448>     ADD HYD               1.0 01:P#1Out        16.22     .044 No_date   20:23   59.08  n/a     .000
02449>                     +     1.0 02:P#1Over        .00     .000 No_date    0:00     .00  n/a     .000
02450>                     +     1.0 04:SiteLag       41.20    1.890 No_date   12:41   39.37  n/a     .000
02451>                     +     1.0 05:FB Z1-2        5.68     .384 No_date   12:18   42.36  n/a     .000
02452>                   SUM=    1.0 03:UnC PL        63.10    2.195 No_date   12:38   44.71  n/a     .000
02453> #-----------------|-------------------------------------------------------------|
02454> R0001:C00319----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02455>     ROUTE CHANNEL    ->   1.0 03:UnC PL        63.10    2.195 No_date   12:38   44.71  n/a     .000
02456>      [RDT= 1.00] out<-    1.0 01:DS Lag        63.10    2.182 No_date   12:41   44.71  n/a     .000
02457>       [L/S/n=  150./ .960/.035]
02458>       (Vmax=  .770:Dmax=  .435)
02459> #-----------------|-------------------------------------------------------------|
02460> R0001:C00320----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02461>     CALIB NASHYD          1.0 02:Ext 3          1.55     .051 No_date   12:24   24.65 .280     .000
02462>       [CN= 60.0: N= 3.00: Tp=  .47]
02463> #-----------------|-------------------------------------------------------------|
02464> #-----------------|-------------------------------------------------------------|
02465> #                 |                                                             |
02466> #                 |                     Controlled Runoff From ZONE 2           |
02467> #                 |                                                             |
02468> #-----------------|-------------------------------------------------------------|
02469> #-----------------|-------------------------------------------------------------|
02470> R0001:C00321----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02471>     CALIB STANDHYD        1.0 03:FB1           14.70    2.390 No_date   12:02   61.94 .703     .000
02472>       [XIMP=.35:TIMP=.55]
02473>       [LOSS= 2 :CN= 74.0]
02474>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02475>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
02476> #-----------------|-------------------------------------------------------------|
02477> R0001:C00322----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02478>     CALIB STANDHYD        1.0 04:MINOR           .21     .047 No_date   12:00   68.15 .774     .000
02479>       [XIMP=.61:TIMP=.61]
02480>       [LOSS= 2 :CN= 74.0]
02481>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02482>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
02483> #-----------------|-------------------------------------------------------------|
02484> R0001:C00323----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02485>     DIVERT HYD       ->   1.0 04:MINOR           .21     .047 No_date   12:00   68.15  n/a     .000
02486>             diverted <=   1.0 05:MINOR           .20     .035 No_date   12:00   68.15  n/a     .000
02487>             diverted <=   1.0 06:MAJOR           .01     .012 No_date   12:00   68.15  n/a     .000
02488> #-----------------|-------------------------------------------------------------|
02489> R0001:C00324----------DTmin-ID:NHYD----------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02490>     CALIB STANDHYD        1.0 04:FB1-A           .33     .053 No_date   12:02   52.12 .592     .000
02491>       [XIMP=.01:TIMP=.39]
02492>       [LOSS= 2 :CN= 74.0]
```

```
02493>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02494>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
02495> #----------------|-------------------------------------------------------------|
02496> R0001:C00325------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02497>     CALIB STANDHYD         1.0 07:SWMF#2          1.11     .216 No_date   12:00   63.54 .721     .000
02498>       [XIMP=.51:TIMP=.51]
02499>       [LOSS= 2 :CN= 74.0]
02500>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02501>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
02502> #----------------|-------------------------------------------------------------|
02503> #----------------|-------------------------------------------------------------|
02504> R0001:C00326------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02505>     ADD HYD                1.0 03:FB1            14.70    2.390 No_date   12:02   61.94  n/a     .000
02506>                      +     1.0 05:MINOR           .20     .035 No_date   12:00   68.15  n/a     .000
02507>                      +     1.0 04:FB1-A           .33     .053 No_date   12:02   52.12  n/a     .000
02508>                      +     1.0 07:SWMF#2         1.11     .216 No_date   12:00   63.54  n/a     .000
02509>                    SUM=    1.0 08:P#2 In        16.34    2.662 No_date   12:01   61.92  n/a     .000
02510> #----------------|-------------------------------------------------------------|
02511> #----------------|---------------- SWM Facility #2 ----------------------------|
02512> #----------------|-------------------------------------------------------------|
02513> R0001:C00327------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02514>     ROUTE RESERVOIR ->     1.0 08:P#2 In        16.34    2.662 No_date   12:01   61.92  n/a     .000
02515>                   out <=   1.0 03:P#2Out        16.34     .478 No_date   12:40   61.92  n/a     .000
02516>              overflow <=   1.0 04:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
02517>       (MxStoUsed=.5406E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02518> #----------------|-------------------------------------------------------------|
02519> R0001:C00328------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02520>     ADD HYD                1.0 03:P#2Out        16.34     .478 No_date   12:40   61.92  n/a     .000
02521>                      +     1.0 04:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
02522>                    SUM=    1.0 05:P#2 Out       16.34     .478 No_date   12:40   61.92  n/a     .000
02523> #----------------|-------------------------------------------------------------|
02524> R0001:C00329------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02525>     DIVERT HYD       ->     1.0 05:P#2 Out       16.34     .478 No_date   12:40   61.92  n/a     .000
02526>             diverted <=    1.0 03:PTwoW          3.84     .180 No_date   12:40   61.92  n/a     .000
02527>             diverted <=    1.0 04:PTwoE         12.32     .299 No_date   12:40   61.92  n/a     .000
02528> #----------------|-------------------------------------------------------------|
02529> #----------------|                                                             |
02530> #----------------|                   Watercourse Flows- ZONE 2                 |
02531> #----------------|                                                             |
02532> #----------------|-------------------------------------------------------------|
02533> #----------------|-------------------------------------------------------------|
02534> #----------------|------------- East Watercourse Area -------------------------|
02535> #----------------|--------------       Foley Drain       -------------------------|
02536> #----------------|-------------------------------------------------------------|
02537> R0001:C00330------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02538>     CALIB NASHYD           1.0 05:Ext-2         417.20    8.094 No_date   14:03   38.88 .441     .000
02539>       [CN= 74.7: N= 3.00: Tp= 1.87]
02540> #----------------|-------------------------------------------------------------|
02541> R0001:C00331------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02542>     CALIB NASHYD           1.0 07:NAT             6.51     .507 No_date   12:16   44.85 .509     .000
02543>       [CN= 79.1: N= 3.00: Tp=  .36]
02544> #----------------|-------------------------------------------------------------|
02545> R0001:C00332------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02546>     ADD HYD                1.0 05:Ext-2         417.20    8.094 No_date   14:03   38.88  n/a     .000
02547>                      +     1.0 07:NAT             6.51     .507 No_date   12:16   44.85  n/a     .000
02548>                    SUM=    1.0 08:FIn           423.71    8.152 No_date   14:02   38.97  n/a     .000
02549> #----------------|-------------------------------------------------------------|
02550> R0001:C00333------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02551>     ROUTE CHANNEL    ->     1.0 08:FIn           423.71    8.152 No_date   14:02   38.97  n/a     .000
02552>       [RDT= 1.00] out<-    1.0 05:SiteLag       423.71    8.117 No_date   14:11   38.97  n/a     .000
02553>       [L/S/n=  550./ .650/.035]
02554>       (Vmax= 1.099:Dmax= 1.368)
02555> #----------------|-------------------------------------------------------------|
02556> #----------------|-------------------------------------------------------------|
02557> #----------------|                                                             |
02558> #----------------|                 Controlled Runoff From ZONE 3               |
02559> #----------------|                                                             |
02560> #----------------|-------------------------------------------------------------|
02561> #----------------|-------------------------------------------------------------|
02562> R0001:C00334------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02563>     CALIB STANDHYD         1.0 07:FB2            10.10    1.727 No_date   12:02   63.00 .715     .000
02564>       [XIMP=.32:TIMP=.59]
02565>       [LOSS= 2 :CN= 74.0]
02566>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02567>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
02568> #----------------|-------------------------------------------------------------|
02569> R0001:C00335------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02570>     CALIB STANDHYD         1.0 08:SWMF3           1.21     .232 No_date   12:00   63.08 .716     .000
02571>       [XIMP=.50:TIMP=.50]
02572>       [LOSS= 2 :CN= 74.0]
02573>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02574>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
02575> #----------------|-------------------------------------------------------------|
02576> R0001:C00336------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02577>     ADD HYD                1.0 07:FB2            10.10    1.727 No_date   12:02   63.00  n/a     .000
02578>                      +     1.0 08:SWMF3           1.21     .232 No_date   12:00   63.08  n/a     .000
02579>                    SUM=    1.0 09:P3IN           11.31    1.947 No_date   12:01   63.01  n/a     .000
02580> #----------------|-------------------------------------------------------------|
02581> #----------------|-------------------------------------------------------------|
02582> #----------------|---------------- SWM Facility #3 ----------------------------|
02583> #----------------|-------------------------------------------------------------|
02584> R0001:C00337------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02585>     ROUTE RESERVOIR ->     1.0 09:P3IN           11.31    1.947 No_date   12:01   63.01  n/a     .000
02586>                   out <=   1.0 07:P#3Out        11.31     .036 No_date   20:10   63.01  n/a     .000
02587>              overflow <=   1.0 08:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
02588>       (MxStoUsed=.5451E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02589> #----------------|-------------------------------------------------------------|
02590> R0001:C00338------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02591>     ADD HYD                1.0 04:PTwoE          12.32     .299 No_date   12:40   61.92  n/a     .000
02592>                      +     1.0 05:SiteLag       423.71    8.117 No_date   14:11   38.97  n/a     .000
02593>                      +     1.0 07:P#3Out         11.31     .036 No_date   20:10   63.01  n/a     .000
02594>                      +     1.0 08:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
02595>                    SUM=    1.0 09:Foley Drai    447.34    8.316 No_date   14:10   40.21  n/a     .000
02596> #----------------|-------------------------------------------------------------|
02597> R0001:C00339------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02598>     CALIB NASHYD           1.0 04:Ext 4           6.30     .194 No_date   12:37   28.23 .320     .000
02599>       [CN= 64.8: N= 3.00: Tp=  .64]
02600> #----------------|-------------------------------------------------------------|
02601> R0001:C00340------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02602>     ADD HYD                1.0 09:Foley Drai    447.34    8.316 No_date   14:10   40.21  n/a     .000
02603>                      +     1.0 04:Ext 4           6.30     .194 No_date   12:37   28.23  n/a     .000
02604>                    SUM=    1.0 05:Pt of IntF    453.64    8.374 No_date   14:09   40.04  n/a     .000
02605> #----------------|-------------------------------------------------------------|
02606> R0001:C00341------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02607>     ADD HYD                1.0 01:DS Lag         63.10    2.182 No_date   12:41   44.71  n/a     .000
02608>                      +     1.0 02:Ext 3           1.55     .051 No_date   12:24   24.65  n/a     .000
02609>                      +     1.0 03:PTwoW           3.84     .180 No_date   12:40   61.92  n/a     .000
02610>                      +     1.0 06:MAJOR            .01     .012 No_date   12:00   68.15  n/a     .000
02611>                    SUM=    1.0 10:Pt of IntT     68.49    2.406 No_date   12:41   45.22  n/a     .000
02612> #----------------|-------------------------------------------------------------|
02613> #----------------|-------------------------------------------------------------|
02614> #              2222  5555   Y   Y  RRRR       SSSS   CCCC   SSSS                |
02615> #                 2  5       Y Y  R   R     S       C       S                    |
02616> #              2222  5555     Y   RRRR       SSSS  C       SSSS                 |
02617> #              2       5     Y   R  R            S C           S                |
02618> #              2222  5555     Y   R   R      SSSS   CCCC   SSSS                 |
02619> #----------------|-------------------------------------------------------------|
02620> #----------------|-------------------------------------------------------------|
02621> #----------------|---------- 25 YEAR ---------------------------------------|
02622> #----------------|-------------------------------------------------------------|
02623> R0001:C00342-----------------------------------------------------------------------------------------
02624>      MASS STORM
02625>       Filename = C:\SWMHYMO\Projects\1060-5384\SCS24H.MST
02626>       Comment  = SCS Type II 24 HR MASS CURVE
02627>       [SDT=15.00:SDUR=  24.00:PTOT= 104.50]
02628> #----------------|-------------------------------------------------------------|
02629> #----------------|-------------------------------------------------------------|
02630> #----------------|                                                             |
02631> #----------------|                 Controlled Runoff From ZONE 1               |
02632> #----------------|                                                             |
02633> #----------------|-------------------------------------------------------------|
02634> #----------------|-------------------------------------------------------------|
02635> #----------------|---------------- SWM Facility #1 Area -----------------------|
02636> #----------------|---------------- West Site Area -----------------------------|
02637> #----------------|-------------------------------------------------------------|
02638> R0001:C00343------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02639>     CALIB NASHYD           1.0 01:Ext 5           .97     .122 No_date   12:09   57.84 .553     .000
02640>       [CN= 77.7: N= 3.00: Tp=  .26]
02641> #----------------|-------------------------------------------------------------|
02642> R0001:C00344------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02643>     CALIB STANDHYD         1.0 02:FB Z1-1        12.37    2.470 No_date   12:02   74.05 .709     .000
02644>       [XIMP=.30:TIMP=.50]
02645>       [LOSS= 2 :CN= 74.0]
02646>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02647>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
02648> #----------------|-------------------------------------------------------------|
02649> R0001:C00345------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02650>     CALIB STANDHYD         1.0 03:FB Z1-3          .98     .224 No_date   12:00   74.05 .709     .000
02651>       [XIMP=.30:TIMP=.50]
02652>       [LOSS= 2 :CN= 74.0]
02653>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02654>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
02655> #----------------|-------------------------------------------------------------|
02656> R0001:C00346------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02657>     CALIB STANDHYD         1.0 04:SWMF#1          1.90     .452 No_date   12:00   77.48 .741     .000
02658>       [XIMP=.50:TIMP=.50]
02659>       [LOSS= 2 :CN= 74.0]
02660>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02661>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
02662> #----------------|-------------------------------------------------------------|
02663> R0001:C00347------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02664>     ADD HYD                1.0 01:Ext 5           .97     .122 No_date   12:09   57.84  n/a     .000
02665>                      +     1.0 02:FB Z1-1        12.37    2.470 No_date   12:02   74.05  n/a     .000
02666>                      +     1.0 03:FB Z1-3          .98     .224 No_date   12:00   74.05  n/a     .000
02667>                      +     1.0 04:SWMF#1          1.90     .452 No_date   12:00   77.48  n/a     .000
02668>                    SUM=    1.0 05:P#1 IN         16.22    3.212 No_date   12:01   73.48  n/a     .000
02669> #----------------|-------------------------------------------------------------|
02670> #----------------|---------------- SWM Facility #1 -----------------------------|
02671> #----------------|-------------------------------------------------------------|
02672> R0001:C00348------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02673>     ROUTE RESERVOIR ->     1.0 05:P#1 IN         16.22    3.212 No_date   12:01   73.48  n/a     .000
02674>                   out <=   1.0 01:P#1Out        16.22     .097 No_date   16:13   73.48  n/a     .000
02675>              overflow <=   1.0 02:P#1Over         .00     .000 No_date   0:00     .00  n/a     .000
02676>       (MxStoUsed=.8874E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02677> #----------------|-------------------------------------------------------------|
02678> #----------------|-------------------------------------------------------------|
02679> #----------------|                                                             |
02680> #----------------|                   Watercourse Flows- ZONE 1                 |
02681> #----------------|                                                             |
02682> #----------------|-------------------------------------------------------------|
02683> #----------------|-------------------------------------------------------------|
02684> #----------------|------------------- West Watercourse Area -------------------|
02685> #----------------|------------------- Small Unnmaed Tributary ----------------|
02686> #----------------|-------------------------------------------------------------|
02687> R0001:C00349------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02688>     CALIB NASHYD           1.0 03:Ext 1          41.20    2.621 No_date   12:30   51.73 .495     .000
02689>       [CN= 74.1: N= 3.00: Tp=  .57]
02690> #----------------|-------------------------------------------------------------|
02691> R0001:C00350------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02692>     ROUTE CHANNEL    ->     1.0 03:Ext 1          41.20    2.621 No_date   12:30   51.73  n/a     .000
02693>       [RDT= 1.00] out<-    1.0 04:SiteLag        41.20    2.490 No_date   12:41   51.73  n/a     .000
02694>       [L/S/n=  425./ .960/.035]
02695>       (Vmax=  .755:Dmax=  .455)
02696> R0001:C00351------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02697>     CALIB NASHYD           1.0 05:FB Z1-2         5.68     .505 No_date   12:18   55.32 .529     .000
02698>       [CN= 77.0: N= 3.00: Tp=  .40]
02699> #----------------|-------------------------------------------------------------|
02700> #----------------|-------- Total Flow at South Property Line ----------------|
02701> #----------------|-------------------------------------------------------------|
02702> R0001:C00352------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02703>     ADD HYD                1.0 01:P#1Out         16.22     .097 No_date   16:13   73.48  n/a     .000
02704>                      +     1.0 02:P#1Over         .00     .000 No_date   0:00     .00  n/a     .000
02705>                      +     1.0 04:SiteLag        41.20    2.490 No_date   12:41   51.73  n/a     .000
02706>                      +     1.0 05:FB Z1-2         5.68     .505 No_date   12:18   55.32  n/a     .000
02707>                    SUM=    1.0 03:UnC PL         63.10    2.886 No_date   12:38   57.64  n/a     .000
02708> #----------------|-------------------------------------------------------------|
02709> R0001:C00353------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02710>     ROUTE CHANNEL    ->     1.0 03:UnC PL         63.10    2.886 No_date   12:38   57.64  n/a     .000
02711>       [RDT= 1.00] out<-    1.0 01:DS Lag         63.10    2.867 No_date   12:42   57.64  n/a     .000
02712>       [L/S/n=  150./ .960/.035]
02713>       (Vmax=  .746:Dmax=  .467)
02714> #----------------|-------------------------------------------------------------|
02715> R0001:C00354------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02716>     CALIB NASHYD           1.0 02:Ext 3           1.55     .072 No_date   12:24   33.85 .324     .000
02717>       [CN= 60.0: N= 3.00: Tp=  .47]
02718> #----------------|-------------------------------------------------------------|
02719> #----------------|-------------------------------------------------------------|
02720> #----------------|                                                             |
02721> #----------------|                 Controlled Runoff From ZONE 2               |
02722> #----------------|                                                             |
02723> #----------------|-------------------------------------------------------------|
02724> #----------------|-------------------------------------------------------------|
02725> R0001:C00355------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02726>     CALIB STANDHYD         1.0 03:FB1            14.70    3.068 No_date   12:02   76.63 .733     .000
02727>       [XIMP=.35:TIMP=.55]
02728>       [LOSS= 2 :CN= 74.0]
02729>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02730>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
02731> #----------------|-------------------------------------------------------------|
02732> R0001:C00356------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02733>     CALIB STANDHYD         1.0 04:MINOR           .21     .057 No_date   12:00   82.98 .794     .000
02734>       [XIMP=.61:TIMP=.61]
02735>       [LOSS= 2 :CN= 74.0]
02736>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02737>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
02738> #----------------|-------------------------------------------------------------|
02739> R0001:C00357------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02740>     DIVERT HYD       ->     1.0 04:MINOR           .21     .057 No_date   12:00   82.98  n/a     .000
02741>             diverted <=    1.0 05:MINOR           .19     .035 No_date   12:00   82.98  n/a     .000
02742>             diverted <=    1.0 06:MAJOR           .02     .022 No_date   12:00   82.98  n/a     .000
02743> #----------------|-------------------------------------------------------------|
02744> R0001:C00358------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02745>     CALIB STANDHYD         1.0 04:FB1-A           .33     .070 No_date   12:02   66.30 .634     .000
02746>       [XIMP=.01:TIMP=.39]
02747>       [LOSS= 2 :CN= 74.0]
02748>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02749>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
02750> #----------------|-------------------------------------------------------------|
02751> R0001:C00359------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02752>     CALIB STANDHYD         1.0 07:SWMF#2          1.11     .272 No_date   12:00   77.98 .746     .000
02753>       [XIMP=.51:TIMP=.51]
02754>       [LOSS= 2 :CN= 74.0]
02755>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02756>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
02757> #----------------|-------------------------------------------------------------|
02758> #----------------|-------------------------------------------------------------|
02759> R0001:C00360------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02760>     ADD HYD                1.0 03:FB1            14.70    3.068 No_date   12:02   76.63  n/a     .000
02761>                      +     1.0 05:MINOR           .19     .035 No_date   12:00   82.98  n/a     .000
02762>                      +     1.0 04:FB1-A           .33     .070 No_date   12:02   66.30  n/a     .000
02763>                      +     1.0 07:SWMF#2          1.11     .272 No_date   12:00   77.98  n/a     .000
02764>                    SUM=    1.0 08:P#2 In         16.33    3.411 No_date   12:01   76.59  n/a     .000
02765> #----------------|-------------------------------------------------------------|
02766> #----------------|---------------- SWM Facility #2 -----------------------------|
02767> #----------------|-------------------------------------------------------------|
02768> R0001:C00361------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02769>     ROUTE RESERVOIR ->     1.0 08:P#2 In         16.33    3.411 No_date   12:01   76.59  n/a     .000
02770>                   out <=   1.0 03:P#2Out        16.33     .790 No_date   12:31   76.59  n/a     .000
02771>              overflow <=   1.0 04:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
02772>       (MxStoUsed=.6324E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02773> #----------------|-------------------------------------------------------------|
02774> R0001:C00362------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02775>     ADD HYD                1.0 03:P#2Out         16.33     .790 No_date   12:31   76.59  n/a     .000
02776>                      +     1.0 04:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
02777>                    SUM=    1.0 05:P#2 Out        16.33     .790 No_date   12:31   76.59  n/a     .000
02778> #----------------|-------------------------------------------------------------|
02779> R0001:C00363------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02780>     DIVERT HYD       ->     1.0 05:P#2 Out        16.33     .790 No_date   12:31   76.59  n/a     .000
02781>             diverted <=    1.0 03:PTwoW           4.15     .261 No_date   12:31   76.59  n/a     .000
02782>             diverted <=    1.0 04:PTwoE          12.02     .529 No_date   12:31   76.59  n/a     .000
02783> #----------------|-------------------------------------------------------------|
02784> #----------------|                                                             |
02785> #----------------|                   Watercourse Flows- ZONE 2                 |
02786> #----------------|                                                             |
02787> #----------------|-------------------------------------------------------------|
02788> #----------------|-------------------------------------------------------------|
02789> #----------------|------------- East Watercourse Area -------------------------|
02790> #----------------|--------------       Foley Drain       -------------------------|
02791> #----------------|-------------------------------------------------------------|
02792> R0001:C00364------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02793>     CALIB NASHYD           1.0 05:Ext-2         417.20   10.772 No_date   14:01   51.29 .491     .000
02794>       [CN= 74.7: N= 3.00: Tp= 1.87]
02795> #----------------|-------------------------------------------------------------|
02796> R0001:C00365------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02797>     CALIB NASHYD           1.0 07:NAT             6.51     .662 No_date   12:15   58.25 .557     .000
02798>       [CN= 79.1: N= 3.00: Tp=  .36]
02799> #----------------|-------------------------------------------------------------|
02800> R0001:C00366------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02801>     ADD HYD                1.0 05:Ext-2         417.20   10.772 No_date   14:01   51.29  n/a     .000
02802>                      +     1.0 07:NAT             6.51     .662 No_date   12:15   58.25  n/a     .000
02803>                    SUM=    1.0 08:FIn           423.71   10.846 No_date   14:00   51.40  n/a     .000
02804> #----------------|-------------------------------------------------------------|
02805> R0001:C00367------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02806>     ROUTE CHANNEL    ->     1.0 08:FIn           423.71   10.846 No_date   14:00   51.40  n/a     .000
02807>       [RDT= 1.00] out<-    1.0 05:SiteLag       423.71   10.803 No_date   14:09   51.40  n/a     .000
02808>       [L/S/n=  550./ .650/.035]
02809>       (Vmax= 1.103:Dmax= 1.436)
02810> #----------------|-------------------------------------------------------------|
02811> #----------------|-------------------------------------------------------------|
02812> #----------------|                                                             |
02813> #----------------|                 Controlled Runoff From ZONE 3               |
02814> #----------------|                                                             |
02815> #----------------|-------------------------------------------------------------|
02816> #----------------|-------------------------------------------------------------|
02817> R0001:C00368------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02818>     CALIB STANDHYD         1.0 07:FB2            10.10    2.215 No_date   12:01   77.90 .745     .000
02819>       [XIMP=.32:TIMP=.59]
02820>       [LOSS= 2 :CN= 74.0]
02821>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02822>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
02823> #----------------|-------------------------------------------------------------|
02824> R0001:C00369------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02825>     CALIB STANDHYD         1.0 08:SWMF3           1.21     .293 No_date   12:00   77.48 .741     .000
02826>       [XIMP=.50:TIMP=.50]
02827>       [LOSS= 2 :CN= 74.0]
02828>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02829>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
02830> #----------------|-------------------------------------------------------------|
02831> R0001:C00370------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02832>     ADD HYD                1.0 07:FB2            10.10    2.215 No_date   12:01   77.90  n/a     .000
02833>                      +     1.0 08:SWMF3           1.21     .293 No_date   12:00   77.48  n/a     .000
02834>                    SUM=    1.0 09:P3IN           11.31    2.498 No_date   12:01   77.85  n/a     .000
02835> #----------------|-------------------------------------------------------------|
02836> #----------------|-------------------------------------------------------------|
02837> #----------------|---------------- SWM Facility #3 -----------------------------|
02838> #----------------|-------------------------------------------------------------|
02839> R0001:C00371------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02840>     ROUTE RESERVOIR ->     1.0 09:P3IN           11.31    2.498 No_date   12:01   77.85  n/a     .000
02841>                   out <=   1.0 07:P#3Out        11.31     .039 No_date   20:16   77.85  n/a     .000
02842>              overflow <=   1.0 08:P#2Over         .00     .000 No_date   0:00     .00  n/a     .000
02843>       (MxStoUsed=.6889E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02844> #----------------|-------------------------------------------------------------|
02845> R0001:C00372------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02846>     ADD HYD                1.0 04:PTwoE          12.02     .529 No_date   12:31   76.59  n/a     .000
02847>                      +     1.0 05:SiteLag       423.71   10.803 No_date   14:09   51.40  n/a     .000
02848>                      +     1.0 07:P#3Out         11.31     .039 No_date   20:16   77.85  n/a     .000
```

```
02849>                 +    1.0 08:P#2Over        .00     .000 No_date   0:00    .00  n/a    .000
02850>               SUM=   1.0 09:Foley Drai   447.04   11.061 No_date  14:07  52.74  n/a    .000
02851> #----------------|-------------------------------------------------------------------|
02852> R0001:C00373------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02853>     CALIB NASHYD          1.0 04:Ext 4         6.30    .267 No_date  12:36  38.41 .368    .000
02854>       [CN= 64.8: N= 3.00: Tp=  .64]
02855> #----------------|-------------------------------------------------------------------|
02856> R0001:C00374------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02857>     ADD HYD               1.0 09:Foley Drai   447.04   11.061 No_date  14:07  52.74  n/a    .000
02858>                 +    1.0 04:Ext 4         6.30    .267 No_date  12:36  38.41  n/a    .000
02859>               SUM=   1.0 05:Pt of IntF   453.34   11.140 No_date  14:06  52.54  n/a    .000
02860> #----------------|-------------------------------------------------------------------|
02861> R0001:C00375------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02862>     ADD HYD               1.0 01:DS Lag       63.10    2.867 No_date  12:42  57.64  n/a    .000
02863>                 +    1.0 02:Ext 3         1.55    .072 No_date  12:24  33.85  n/a    .000
02864>                 +    1.0 03:PTwoW         4.15    .261 No_date  12:31  76.59  n/a    .000
02865>                 +    1.0 06:MAJOR          .02    .022 No_date  12:00  82.98  n/a    .000
02866>               SUM=   1.0 10:Pt of IntT    68.82   3.182 No_date  12:41  58.25  n/a    .000
02867> #----------------|-------------------------------------------------------------------|
02868> #----------------|-------------------------------------------------------------------|
02869> #                |  5555   000   Y   Y  RRRR       SSSS   CCCC   SSSS                 |
02870> #                |  5   0   0   Y Y  R   R     S      C       S                       |
02871> #                |  5555  0   0    Y    RRRR       SSSS  C       SSSS                 |
02872> #                |     5  0   0    Y    R  R           S C           S                 |
02873> #                |  5555   000     Y    R   R      SSSS   CCCC   SSSS                 |
02874> #----------------|-------------------------------------------------------------------|
02875> #----------------|-------------------------------------------------------------------|
02876> #----------------|---------- 50 YEAR ------------------------------------------------|
02877> #----------------|-------------------------------------------------------------------|
02878> R0001:C00376------------------------------------------------------------------------------
02879>      MASS STORM
02880>       Filename = C:\SWMHYMO\Projects\1060-5384\SCS24H.MST
02881>       Comment  = SCS Type II 24 HR MASS CURVE
02882>       [SDT=15.00:SDUR=  24.00:PTOT= 116.80]
02883> #----------------|-------------------------------------------------------------------|
02884> #----------------|-------------------------------------------------------------------|
02885> #                |                                                                   |
02886> #                |                     Controlled Runoff From ZONE 1                 |
02887> #                |                                                                   |
02888> #----------------|-------------------------------------------------------------------|
02889> #
02890> #----------------|--------------- SWM Facility #1 Area ------------------------------|
02891> #----------------|----------------- West Site Area -------------------------------|
02892> #----------------|-------------------------------------------------------------------|
02893> R0001:C00377------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02894>     CALIB NASHYD          1.0 01:Ext 5          .97    .144 No_date  12:09  68.10 .583    .000
02895>       [CN= 77.7: N= 3.00: Tp=  .26]
02896> #----------------|-------------------------------------------------------------------|
02897> R0001:C00378------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02898>     CALIB STANDHYD        1.0 02:FB Z1-1       12.37    2.931 No_date  12:02  85.15 .729    .000
02899>       [XIMP=.30:TIMP=.50]
02900>       [LOSS= 2 :CN= 74.0]
02901>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02902>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
02903> #----------------|-------------------------------------------------------------------|
02904> R0001:C00379------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02905>     CALIB STANDHYD        1.0 03:FB Z1-3        .98    .265 No_date  12:00  85.15 .729    .000
02906>       [XIMP=.30:TIMP=.50]
02907>       [LOSS= 2 :CN= 74.0]
02908>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02909>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
02910> #----------------|-------------------------------------------------------------------|
02911> R0001:C00380------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02912>     CALIB STANDHYD        1.0 04:SWMF#1         1.90     .525 No_date  12:00  88.49 .758    .000
02913>       [XIMP=.50:TIMP=.50]
02914>       [LOSS= 2 :CN= 74.0]
02915>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02916>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
02917> #----------------|-------------------------------------------------------------------|
02918> R0001:C00381------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02919>     ADD HYD               1.0 01:Ext 5          .97    .144 No_date  12:09  68.10  n/a    .000
02920>                 +    1.0 02:FB Z1-1       12.37    2.931 No_date  12:02  85.15  n/a    .000
02921>                 +    1.0 03:FB Z1-3        .98    .265 No_date  12:00  85.15  n/a    .000
02922>                 +    1.0 04:SWMF#1         1.90     .525 No_date  12:00  88.49  n/a    .000
02923>               SUM=   1.0 05:P#1 IN        16.22    3.800 No_date  12:01  84.52  n/a    .000
02924> #----------------|-------------------------------------------------------------------|
02925> #----------------|---------------- SWM Facility #1 ----------------------------------|
02926> #----------------|-------------------------------------------------------------------|
02927> R0001:C00382------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02928>     ROUTE RESERVOIR ->    1.0 05:P#1 IN        16.22    3.800 No_date  12:01  84.52  n/a    .000
02929>                 out <=    1.0 01:P#1Out       16.22     .151 No_date  14:21  84.52  n/a    .000
02930>            overflow <=    1.0 02:P#1Over        .00     .000 No_date   0:00    .00  n/a    .000
02931>      (MxStoUsed=.9587E+00  m3, TotOrfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
02932> #----------------|-------------------------------------------------------------------|
02933> #----------------|-------------------------------------------------------------------|
02934> #                |                                                                   |
02935> #                |                     Watercourse Flows- ZONE 1                     |
02936> #                |                                                                   |
02937> #----------------|-------------------------------------------------------------------|
02938> #----------------|-------------------------------------------------------------------|
02939> #----------------|------------- West Watercourse Area ------------------------------|
02940> #----------------|------------- Small Unnmaed Tributary ----------------------------|
02941> #----------------|-------------------------------------------------------------------|
02942> R0001:C00383------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02943>     CALIB NASHYD          1.0 03:Ext 1         41.20    3.126 No_date  12:30  61.43 .526    .000
02944>       [CN= 74.1: N= 3.00: Tp=  .57]
02945> #----------------|-------------------------------------------------------------------|
02946> R0001:C00384------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02947>     ROUTE CHANNEL   ->    1.0 03:Ext 1         41.20    3.126 No_date  12:30  61.43  n/a    .000
02948>       [RD= 1.00] out<-    1.0 04:SiteLag       41.20    2.958 No_date  12:41  61.43  n/a    .000
02949>       [L/S/n=  425./ .960/.035]
02950>       (Vmax=  .746:Dmax=  .475]
02951> R0001:C00385------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02952>     CALIB NASHYD          1.0 05:FB Z1-2        5.68     .599 No_date  12:18  65.43 .560    .000
02953>       [CN= 77.0: N= 3.00: Tp=  .40]
02954> #----------------|-------------------------------------------------------------------|
02955> #----------------|-------- Total Flow at South Property Line -----------------------|
02956> #----------------|-------------------------------------------------------------------|
02957> R0001:C00386------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02958>     ADD HYD               1.0 01:P#1Out        16.22     .151 No_date  14:21  84.52  n/a    .000
02959>                 +    1.0 02:P#1Over        .00     .000 No_date   0:00    .00  n/a    .000
02960>                 +    1.0 04:SiteLag       41.20    2.958 No_date  12:41  61.43  n/a    .000
02961>                 +    1.0 05:FB Z1-2        5.68     .599 No_date  12:18  65.43  n/a    .000
02962>               SUM=   1.0 03:Unc PL        63.10    3.473 No_date  12:38  67.73  n/a    .000
02963> #----------------|-------------------------------------------------------------------|
02964> R0001:C00387------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02965>     ROUTE CHANNEL   ->    1.0 03:Unc PL        63.10    3.473 No_date  12:38  67.73  n/a    .000
02966>       [RD= 1.00] out<-    1.0 01:DS Lag        63.10    3.455 No_date  12:42  67.73  n/a    .000
02967>       [L/S/n=  150./ .960/.035]
02968>       (Vmax=  .749:Dmax=  .484]
02969> #----------------|-------------------------------------------------------------------|
02970> R0001:C00388------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02971>     CALIB NASHYD          1.0 02:Ext 3          1.55     .088 No_date  12:24  41.31 .354    .000
02972>       [CN= 60.0: N= 3.00: Tp=  .47]
02973> #----------------|-------------------------------------------------------------------|
02974> #----------------|-------------------------------------------------------------------|
02975> #                |                                                                   |
02976> #                |                     Controlled Runoff From ZONE 2                 |
02977> #                |                                                                   |
02978> #----------------|-------------------------------------------------------------------|
02979> #----------------|-------------------------------------------------------------------|
02980> R0001:C00389------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02981>     CALIB STANDHYD        1.0 03:FB1           14.70    3.609 No_date  12:01  87.86 .752    .000
02982>       [XIMP=.35:TIMP=.55]
02983>       [LOSS= 2 :CN= 74.0]
02984>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02985>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
02986> #----------------|-------------------------------------------------------------------|
02987> R0001:C00390------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02988>     CALIB STANDHYD        1.0 04:MINOR          .21     .065 No_date  12:00  94.28 .807    .000
02989>       [XIMP=.61:TIMP=.61]
02990>       [LOSS= 2 :CN= 74.0]
02991>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02992>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
02993> #----------------|-------------------------------------------------------------------|
02994> R0001:C00391------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02995>     DIVERT HYD         ->    1.0 04:MINOR          .21     .065 No_date  12:00  94.28  n/a    .000
02996>             diverted <=    1.0 05:MINOR          .19     .035 No_date  12:00  94.28  n/a    .000
02997>             diverted <=    1.0 06:MAJOR          .02     .030 No_date  12:00  94.28  n/a    .000
02998> #----------------|-------------------------------------------------------------------|
02999> R0001:C00392------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03000>     CALIB STANDHYD        1.0 04:FB1-A          .33     .084 No_date  12:01  77.22 .661    .000
03001>       [XIMP=.01:TIMP=.39]
03002>       [LOSS= 2 :CN= 74.0]
03003>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03004>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
03005> #----------------|-------------------------------------------------------------------|
03006> R0001:C00393------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03007>     CALIB STANDHYD        1.0 07:SWMF#2         1.11     .312 No_date  12:00  89.01 .762    .000
03008>       [XIMP=.51:TIMP=.51]
03009>       [LOSS= 2 :CN= 74.0]
03010>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03011>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
03012> #----------------|-------------------------------------------------------------------|
03013> #----------------|-------------------------------------------------------------------|
03014> R0001:C00394------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03015>     ADD HYD               1.0 03:FB1           14.70    3.609 No_date  12:01  87.86  n/a    .000
03016>                 +    1.0 05:MINOR          .19     .035 No_date  12:00  94.28  n/a    .000
03017>                 +    1.0 04:FB1-A          .33     .084 No_date  12:01  77.22  n/a    .000
03018>                 +    1.0 07:SWMF#2         1.11     .312 No_date  12:00  89.01  n/a    .000
03019>               SUM=   1.0 08:P#2 In        16.33    4.016 No_date  12:01  87.80  n/a    .000
03020> #----------------|-------------------------------------------------------------------|
03021> #----------------|---------------- SWM Facility #2 ----------------------------------|
03022> #----------------|-------------------------------------------------------------------|
03023> R0001:C00395------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03024>     ROUTE RESERVOIR ->    1.0 08:P#2 In        16.33    4.016 No_date  12:01  87.80  n/a    .000
03025>                 out <=    1.0 03:P#2Out       16.33    1.087 No_date  12:24  87.79  n/a    .000
03026>            overflow <=    1.0 04:P#2Over        .00     .000 No_date   0:00    .00  n/a    .000
03027>      (MxStoUsed=.6968E+00  m3, TotOrfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
03028> #----------------|-------------------------------------------------------------------|
03029> R0001:C00396------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03030>     ADD HYD               1.0 03:P#2Out        16.33    1.087 No_date  12:24  87.79  n/a    .000
03031>                 +    1.0 04:P#2Over        .00     .000 No_date   0:00    .00  n/a    .000
03032>               SUM=   1.0 05:P#2 Out       16.33    1.087 No_date  12:24  87.79  n/a    .000
03033> #----------------|-------------------------------------------------------------------|
03034> R0001:C00397------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03035>     DIVERT HYD         ->    1.0 05:P#2 Out       16.33    1.087 No_date  12:24  87.79  n/a    .000
03036>             diverted <=    1.0 03:PTwoW          4.24     .329 No_date  12:24  87.79  n/a    .000
03037>             diverted <=    1.0 04:PTwoE         11.94     .757 No_date  12:24  87.79  n/a    .000
03038> #----------------|-------------------------------------------------------------------|
03039> #                |                                                                   |
03040> #                |                     Watercourse Flows- ZONE 2                     |
03041> #                |                                                                   |
03042> #----------------|-------------------------------------------------------------------|
03043> #----------------|-------------------------------------------------------------------|
03044> #----------------|------------------- East Watercourse Area -------------------------|
03045> #----------------|--------------       Foley Drain       -------------------------|
03046> #----------------|-------------------------------------------------------------------|
03047> R0001:C00398------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03048>     CALIB NASHYD          1.0 05:Ext-2         417.20   12.880 No_date  14:00  61.04 .523    .000
03049>       [CN= 74.7: N= 3.00: Tp= 1.87]
03050> #----------------|-------------------------------------------------------------------|
03051> R0001:C00399------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03052>     CALIB NASHYD          1.0 07:NAT            6.51     .782 No_date  12:15  68.66 .588    .000
03053>       [CN= 79.1: N= 3.00: Tp=  .36]
03054> #----------------|-------------------------------------------------------------------|
03055> R0001:C00400------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03056>     ADD HYD               1.0 05:Ext-2         417.20   12.880 No_date  14:00  61.04  n/a    .000
03057>                 +    1.0 07:NAT            6.51     .782 No_date  12:15  68.66  n/a    .000
03058>               SUM=   1.0 08:FIn           423.71   12.966 No_date  13:59  61.16  n/a    .000
03059> #----------------|-------------------------------------------------------------------|
03060> R0001:C00401------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03061>     ROUTE CHANNEL   ->    1.0 08:FIn           423.71   12.966 No_date  13:59  61.16  n/a    .000
03062>       [RD= 1.00] out<-    1.0 05:SiteLag       423.71   12.919 No_date  14:07  61.16  n/a    .000
03063>       [L/S/n=  550./ .650/.035]
03064>       (Vmax= 1.111:Dmax= 1.483]
03065> #----------------|-------------------------------------------------------------------|
03066> #----------------|-------------------------------------------------------------------|
03067> #                |                                                                   |
03068> #                |                     Controlled Runoff From ZONE 3                 |
03069> #                |                                                                   |
03070> #----------------|-------------------------------------------------------------------|
03071> #----------------|-------------------------------------------------------------------|
03072> R0001:C00402------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03073>     CALIB STANDHYD        1.0 07:FB2           10.10    2.617 No_date  12:01  89.26 .764    .000
03074>       [XIMP=.32:TIMP=.59]
03075>       [LOSS= 2 :CN= 74.0]
03076>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03077>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
03078> #----------------|-------------------------------------------------------------------|
03079> R0001:C00403------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03080>     CALIB STANDHYD        1.0 08:SWMF3          1.21     .337 No_date  12:00  88.49 .758    .000
03081>       [XIMP=.50:TIMP=.50]
03082>       [LOSS= 2 :CN= 74.0]
03083>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03084>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
03085> #----------------|-------------------------------------------------------------------|
03086> R0001:C00404------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03087>     ADD HYD               1.0 07:FB2           10.10    2.617 No_date  12:01  89.26  n/a    .000
03088>                 +    1.0 08:SWMF3          1.21     .337 No_date  12:00  88.49  n/a    .000
03089>               SUM=   1.0 09:P3IN           11.31    2.941 No_date  12:01  89.18  n/a    .000
03090> #----------------|-------------------------------------------------------------------|
03091> #----------------|-------------------------------------------------------------------|
03092> #----------------|---------------- SWM Facility #3 ----------------------------------|
03093> #----------------|-------------------------------------------------------------------|
03094> R0001:C00405------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03095>     ROUTE RESERVOIR ->    1.0 09:P3IN          11.31    2.941 No_date  12:01  89.18  n/a    .000
03096>                 out <=    1.0 07:P#3Out        11.31     .042 No_date  20:25  89.18  n/a    .000
03097>            overflow <=    1.0 08:P#2Over        .00     .000 No_date   0:00    .00  n/a    .000
03098>      (MxStoUsed=.7994E+00  m3, TotOrfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
03099> #----------------|-------------------------------------------------------------------|
03100> R0001:C00406------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03101>     ADD HYD               1.0 04:PTwoE         11.94     .757 No_date  12:24  87.79  n/a    .000
03102>                 +    1.0 05:SiteLag       423.71   12.919 No_date  14:07  61.16  n/a    .000
03103>                 +    1.0 07:P#3Out        11.31     .042 No_date  20:25  89.18  n/a    .000
03104>                 +    1.0 08:P#2Over        .00     .000 No_date   0:00    .00  n/a    .000
03105>               SUM=   1.0 09:Foley Drai   446.96   13.210 No_date  14:06  62.58  n/a    .000
03106> #----------------|-------------------------------------------------------------------|
03107> R0001:C00407------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03108>     CALIB NASHYD          1.0 04:Ext 4          6.30     .327 No_date  12:36  46.60 .399    .000
03109>       [CN= 64.8: N= 3.00: Tp=  .64]
03110> #----------------|-------------------------------------------------------------------|
03111> R0001:C00408------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03112>     ADD HYD               1.0 09:Foley Drai   446.96   13.210 No_date  14:06  62.58  n/a    .000
03113>                 +    1.0 04:Ext 4          6.30     .327 No_date  12:36  46.60  n/a    .000
03114>               SUM=   1.0 05:Pt of IntF   453.26   13.307 No_date  14:05  62.36  n/a    .000
03115> #----------------|-------------------------------------------------------------------|
03116> R0001:C00409------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03117>     ADD HYD               1.0 01:DS Lag        63.10    3.455 No_date  12:42  67.73  n/a    .000
03118>                 +    1.0 02:Ext 3          1.55     .088 No_date  12:24  41.31  n/a    .000
03119>                 +    1.0 03:PTwoW          4.24     .329 No_date  12:24  87.79  n/a    .000
03120>                 +    1.0 06:MAJOR           .02     .030 No_date  12:00  94.28  n/a    .000
03121>               SUM=   1.0 10:Pt of IntT    68.92    3.835 No_date  12:40  68.38  n/a    .000
03122> #----------------|-------------------------------------------------------------------|
03123> #----------------|-------------------------------------------------------------------|
03124> #                |     11    000    000   Y  Y  RRRR       SSSS   CCCC   SSSS          |
03125> #                |   1 1    0   0  0   0   Y Y  R   R     S      C       S              |
03126> #                |     1    0   0  0   0    Y    RRRR       SSSS  C       SSSS         |
03127> #                |     1    0   0  0   0    Y    R  R           S C           S         |
03128> #                |   11111   000    000     Y    R   R      SSSS   CCCC   SSSS          |
03129> #----------------|-------------------------------------------------------------------|
03130> #----------------|-------- 100 YEAR ----------------------------------------------|
03131> #----------------|-------------------------------------------------------------------|
03132> R0001:C00410------------------------------------------------------------------------------
03133>      MASS STORM
03134>       Filename = C:\SWMHYMO\Projects\1060-5384\SCS24H.MST
03135>       Comment  = SCS Type II 24 HR MASS CURVE
03136>       [SDT=15.00:SDUR=  24.00:PTOT= 128.80]
03137> #----------------|-------------------------------------------------------------------|
03138> #----------------|-------------------------------------------------------------------|
03139> #                |                                                                   |
03140> #                |                     Controlled Runoff From ZONE 1                 |
03141> #                |                                                                   |
03142> #----------------|-------------------------------------------------------------------|
03143> #
03144> #----------------|---------------- SWM Facility #1 Area ------------------------------|
03145> #----------------|----------------- West Site Area -------------------------------|
03146> #----------------|-------------------------------------------------------------------|
03147> R0001:C00411------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03148>     CALIB NASHYD          1.0 01:Ext 5          .97    .166 No_date  12:09  78.35 .608    .000
03149>       [CN= 77.7: N= 3.00: Tp=  .26]
03150> #----------------|-------------------------------------------------------------------|
03151> R0001:C00412------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03152>     CALIB STANDHYD        1.0 02:FB Z1-1       12.37    3.348 No_date  12:02  96.13 .746    .000
03153>       [XIMP=.30:TIMP=.50]
03154>       [LOSS= 2 :CN= 74.0]
03155>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03156>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
03157> #----------------|-------------------------------------------------------------------|
03158> R0001:C00413------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03159>     CALIB STANDHYD        1.0 03:FB Z1-3        .98    .302 No_date  12:00  96.13 .746    .000
03160>       [XIMP=.30:TIMP=.50]
03161>       [LOSS= 2 :CN= 74.0]
03162>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03163>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
03164> #----------------|-------------------------------------------------------------------|
03165> R0001:C00414------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03166>     CALIB STANDHYD        1.0 04:SWMF#1         1.90     .592 No_date  12:00  99.37 .772    .000
03167>       [XIMP=.50:TIMP=.50]
03168>       [LOSS= 2 :CN= 74.0]
03169>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03170>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
03171> #----------------|-------------------------------------------------------------------|
03172> R0001:C00415------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03173>     ADD HYD               1.0 01:Ext 5          .97    .166 No_date  12:09  78.35  n/a    .000
03174>                 +    1.0 02:FB Z1-1       12.37    3.348 No_date  12:02  96.13  n/a    .000
03175>                 +    1.0 03:FB Z1-3        .98    .302 No_date  12:00  96.13  n/a    .000
03176>                 +    1.0 04:SWMF#1         1.90     .592 No_date  12:00  99.37  n/a    .000
03177>               SUM=   1.0 05:P#1 IN        16.22    4.336 No_date  12:01  95.45  n/a    .000
03178> #----------------|-------------------------------------------------------------------|
03179> #----------------|---------------- SWM Facility #1 ----------------------------------|
03180> #----------------|-------------------------------------------------------------------|
03181> R0001:C00416------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03182>     ROUTE RESERVOIR ->    1.0 05:P#1 IN        16.22    4.336 No_date  12:01  95.45  n/a    .000
03183>                 out <=    1.0 01:P#1Out        16.22     .217 No_date  14:00  95.44  n/a    .000
03184>            overflow <=    1.0 02:P#1Over        .00     .000 No_date   0:00    .00  n/a    .000
03185>      (MxStoUsed=.1046E+01  m3, TotOrfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
03186> #----------------|-------------------------------------------------------------------|
03187> #----------------|-------------------------------------------------------------------|
03188> #                |                                                                   |
03189> #                |                     Watercourse Flows- ZONE 1                     |
03190> #                |                                                                   |
03191> #----------------|-------------------------------------------------------------------|
03192> #----------------|-------------------------------------------------------------------|
03193> #----------------|------------- West Watercourse Area ------------------------------|
03194> #----------------|------------- Small Unnmaed Tributary ----------------------------|
03195> #----------------|-------------------------------------------------------------------|
03196> R0001:C00417------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03197>     CALIB NASHYD          1.0 03:Ext 1         41.20    3.634 No_date  12:30  71.19 .553    .000
03198>       [CN= 74.1: N= 3.00: Tp=  .57]
03199> #----------------|-------------------------------------------------------------------|
03200> R0001:C00418------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03201>     ROUTE CHANNEL   ->    1.0 03:Ext 1         41.20    3.634 No_date  12:30  71.19  n/a    .000
03202>       [RD= 1.00] out<-    1.0 04:SiteLag       41.20    3.450 No_date  12:40  71.19  n/a    .000
03203>       [L/S/n=  425./ .960/.035]
03204>       (Vmax=  .751:Dmax=  .489]
```

```
03205> R0001:C00419------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03206>     CALIB NASHYD          1.0 05:FB Z1-2        5.68     .694 No_date   12:18   75.56 .587     .000
03207>       [CN= 77.0: N= 3.00: Tp=  .40]
03208> #-----------------|-------------------------------------------------------------|
03209> #-----------------|-------- Total Flow at South Property Line ----------------|
03210> #-----------------|-------------------------------------------------------------|
03211> R0001:C00420------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03212>     ADD HYD               1.0 01:P#1Out        16.22     .217 No_date   14:00   95.44 .n/a     .000
03213>                     +     1.0 02:P#1Over        .00     .000 No_date    0:00     .00  n/a     .000
03214>                     +     1.0 04:SiteLag      41.20    3.450 No_date   12:40   71.19  n/a     .000
03215>                     +     1.0 05:FB Z1-2        5.68     .694 No_date   12:18   75.56  n/a     .000
03216>                   SUM=    1.0 03:UnC PL        63.10    4.121 No_date   12:38   77.82  n/a     .000
03217> #-----------------|-------------------------------------------------------------|
03218> R0001:C00421------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03219>     ROUTE CHANNEL   ->    1.0 03:UnC PL        63.10    4.121 No_date   12:38   77.82  n/a     .000
03220>      [RDT= 1.00] out<-    1.0 01:DS Lag        63.10    4.098 No_date   12:41   77.82  n/a     .000
03221>       [L/S/n=  150./ .960/.035]
03222>       (Vmax=  .755:Dmax=  .502)
03223> #-----------------|-------------------------------------------------------------|
03224> R0001:C00422------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03225>     CALIB NASHYD          1.0 02:Ext 3          1.55     .105 No_date   12:24   48.98 .380     .000
03226>       [CN= 60.0: N= 3.00: Tp=  .47]
03227> #-----------------|-------------------------------------------------------------|
03228> #-----------------|-------------------------------------------------------------|
03229> #                 |                                                             |
03230> #                 |                   Controlled Runoff From ZONE 2             |
03231> #                 |                                                             |
03232> #-----------------|-------------------------------------------------------------|
03233> #-----------------|-------------------------------------------------------------|
03234> R0001:C00423------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03235>     CALIB STANDHYD        1.0 03:FB1           14.70    4.112 No_date   12:01   98.95 .768     .000
03236>       [XIMP=.35:TIMP=.55]
03237>       [LOSS= 2 :CN= 74.0]
03238>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03239>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
03240> #-----------------|-------------------------------------------------------------|
03241> R0001:C00424------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03242>     CALIB STANDHYD        1.0 04:MINOR          .21     .074 No_date   12:00  105.40 .818     .000
03243>       [XIMP=.61:TIMP=.61]
03244>       [LOSS= 2 :CN= 74.0]
03245>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03246>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
03247> #-----------------|-------------------------------------------------------------|
03248> R0001:C00425------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03249>     DIVERT HYD      ->    1.0 04:MINOR          .21     .074 No_date   12:00  105.40  n/a     .000
03250>             diverted <=   1.0 05:MINOR          .18     .035 No_date   12:00  105.40  n/a     .000
03251>             diverted <=   1.0 06:MAJOR          .03     .039 No_date   12:00  105.40  n/a     .000
03252> #-----------------|-------------------------------------------------------------|
03253> R0001:C00426------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03254>     CALIB STANDHYD        1.0 04:FB1-A          .33     .097 No_date   12:01   88.05 .684     .000
03255>       [XIMP=.01:TIMP=.39]
03256>       [LOSS= 2 :CN= 74.0]
03257>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03258>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
03259> #-----------------|-------------------------------------------------------------|
03260> R0001:C00427------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03261>     CALIB STANDHYD        1.0 07:SWMF#2         1.11     .356 No_date   12:00   99.92 .776     .000
03262>       [XIMP=.51:TIMP=.51]
03263>       [LOSS= 2 :CN= 74.0]
03264>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03265>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
03266> #-----------------|-------------------------------------------------------------|
03267> #-----------------|-------------------------------------------------------------|
03268> R0001:C00428------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03269>     ADD HYD               1.0 03:FB1           14.70    4.112 No_date   12:01   98.95  n/a     .000
03270>                     +     1.0 05:MINOR          .18     .035 No_date   12:00  105.40  n/a     .000
03271>                     +     1.0 04:FB1-A          .33     .097 No_date   12:01   88.05  n/a     .000
03272>                     +     1.0 07:SWMF#2        1.11     .356 No_date   12:00   99.92  n/a     .000
03273>                   SUM=    1.0 08:P#2 In        16.32    4.572 No_date   12:01   98.87  n/a     .000
03274> #-----------------|-------------------------------------------------------------|
03275> #-----------------|---------------- SWM Facility #2 ----------------------------|
03276> #-----------------|-------------------------------------------------------------|
03277> R0001:C00429------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03278>     ROUTE RESERVOIR ->    1.0 08:P#2 In        16.32    4.572 No_date   12:01   98.87  n/a     .000
03279>                 out <=    1.0 03:P#2Out        16.32    1.414 No_date   12:20   98.87  n/a     .000
03280>              overflow <=  1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
03281>      (MxStoUsed=.7594E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
03282> #-----------------|-------------------------------------------------------------|
03283> R0001:C00430------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03284>     ADD HYD               1.0 03:P#2Out        16.32    1.414 No_date   12:20   98.87  n/a     .000
03285>                     +     1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
03286>                   SUM=    1.0 05:P#2 Out       16.32    1.414 No_date   12:20   98.87  n/a     .000
03287> #-----------------|-------------------------------------------------------------|
03288> R0001:C00431------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03289>     DIVERT HYD      ->    1.0 05:P#2 Out       16.32    1.414 No_date   12:20   98.87  n/a     .000
03290>             diverted <=   1.0 03:PTwoW          4.29     .396 No_date   12:20   98.87  n/a     .000
03291>             diverted <=   1.0 04:PTwoE         11.91    1.017 No_date   12:20   98.87  n/a     .000
03292> #-----------------|-------------------------------------------------------------|
03293> #                 |                                                             |
03294> #                 |                   Watercourse Flows- ZONE 2                 |
03295> #                 |                                                             |
03296> #-----------------|-------------------------------------------------------------|
03297> #-----------------|-------------------------------------------------------------|
03298> #-----------------|-------------- East Watercourse Area ------------------------|
03299> #-----------------|--------------       Foley Drain          ------------------|
03300> #-----------------|-------------------------------------------------------------|
03301> R0001:C00432------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03302>     CALIB NASHYD          1.0 05:Ext-2        417.20   15.001 No_date   13:59   70.85 .550     .000
03303>       [CN= 74.7: N= 3.00: Tp= 1.87]
03304> #-----------------|-------------------------------------------------------------|
03305> R0001:C00433------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03306>     CALIB NASHYD          1.0 07:NAT            6.51     .902 No_date   12:15   79.06 .614     .000
03307>       [CN= 79.1: N= 3.00: Tp=  .36]
03308> #-----------------|-------------------------------------------------------------|
03309> R0001:C00434------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03310>     ADD HYD               1.0 05:Ext-2        417.20   15.001 No_date   13:59   70.85  n/a     .000
03311>                     +     1.0 07:NAT            6.51     .902 No_date   12:15   79.06  n/a     .000
03312>                   SUM=    1.0 08:FIn           423.71   15.100 No_date   13:59   70.97  n/a     .000
03313> #-----------------|-------------------------------------------------------------|
03314> R0001:C00435------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03315>     ROUTE CHANNEL   ->    1.0 08:FIn           423.71   15.100 No_date   13:59   70.97  n/a     .000
03316>      [RDT= 1.00] out<-    1.0 05:SiteLag       423.71   15.047 No_date   14:06   70.97  n/a     .000
03317>       [L/S/n=  550./ .650/.035]
03318>       (Vmax= 1.129:Dmax= 1.519)
03319> #-----------------|-------------------------------------------------------------|
03320> #-----------------|-------------------------------------------------------------|
03321> #                 |                                                             |
03322> #                 |                   Controlled Runoff From ZONE 3             |
03323> #                 |                                                             |
03324> #-----------------|-------------------------------------------------------------|
03325> #-----------------|-------------------------------------------------------------|
03326> R0001:C00436------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03327>     CALIB STANDHYD        1.0 07:FB2           10.10    2.977 No_date   12:01  100.47 .780     .000
03328>       [XIMP=.32:TIMP=.59]
03329>       [LOSS= 2 :CN= 74.0]
03330>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03331>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
03332> #-----------------|-------------------------------------------------------------|
03333> R0001:C00437------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03334>     CALIB STANDHYD        1.0 08:SWMF3          1.21     .384 No_date   12:00   99.37 .772     .000
03335>       [XIMP=.50:TIMP=.50]
03336>       [LOSS= 2 :CN= 74.0]
03337>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03338>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
03339> #-----------------|-------------------------------------------------------------|
03340> R0001:C00438------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03341>     ADD HYD               1.0 07:FB2           10.10    2.977 No_date   12:01  100.47  n/a     .000
03342>                     +     1.0 08:SWMF3          1.21     .384 No_date   12:00   99.37  n/a     .000
03343>                   SUM=    1.0 09:P3IN          11.31    3.333 No_date   12:01  100.36  n/a     .000
03344> #-----------------|-------------------------------------------------------------|
03345> #-----------------|-------------------------------------------------------------|
03346> #-----------------|---------------- SWM Facility #3 ----------------------------|
03347> #-----------------|-------------------------------------------------------------|
03348> R0001:C00439------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03349>     ROUTE RESERVOIR ->    1.0 09:P3IN          11.31    3.333 No_date   12:01  100.36  n/a     .000
03350>                 out <=    1.0 07:P#3Out        11.31     .045 No_date   24:01  100.35  n/a     .000
03351>              overflow <=  1.0 08:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
03352>      (MxStoUsed=.9100E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
03353> #-----------------|-------------------------------------------------------------|
03354> R0001:C00440------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03355>     ADD HYD               1.0 04:PTwoE         11.91    1.017 No_date   12:20   98.87  n/a     .000
03356>                     +     1.0 05:SiteLag       423.71   15.047 No_date   14:06   70.97  n/a     .000
03357>                     +     1.0 07:P#3Out        11.31     .045 No_date   24:01  100.35  n/a     .000
03358>                     +     1.0 08:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
03359>                   SUM=    1.0 09:Foley Drai    446.93   15.367 No_date   14:05   72.46  n/a     .000
03360> #-----------------|-------------------------------------------------------------|
03361> R0001:C00441------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03362>     CALIB NASHYD          1.0 04:Ext 4          6.30     .388 No_date   12:36   54.96 .427     .000
03363>       [CN= 64.8: N= 3.00: Tp=  .64]
03364> #-----------------|-------------------------------------------------------------|
03365> R0001:C00442------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03366>     ADD HYD               1.0 09:Foley Drai    446.93   15.367 No_date   14:05   72.46  n/a     .000
03367>                     +     1.0 04:Ext 4          6.30     .388 No_date   12:36   54.96  n/a     .000
03368>                   SUM=    1.0 05:Pt of IntF    453.23   15.482 No_date   14:04   72.21  n/a     .000
03369> #-----------------|-------------------------------------------------------------|
03370> R0001:C00443------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03371>     ADD HYD               1.0 01:DS Lag        63.10    4.098 No_date   12:41   77.82  n/a     .000
03372>                     +     1.0 02:Ext 3          1.55     .105 No_date   12:24   48.98  n/a     .000
03373>                     +     1.0 03:PTwoW          4.29     .396 No_date   12:20   98.87  n/a     .000
03374>                     +     1.0 06:MAJOR          .03     .039 No_date   12:00  105.40  n/a     .000
03375>                   SUM=    1.0 10:Pt of IntT    68.96    4.540 No_date   12:40   78.49  n/a     .000
03376> #-----------------|-------------------------------------------------------------|
03377> ************************************************************************
03378> #                          Regional Storm (Hazel)
03379> ************************************************************************
03380> R0001:C00444-----------------------------------------------------------------------------------------
03381>      READ STORM
03382>        Filename = hazel.stm
03383>        Comment  = Hurricane Hazel
03384>        [SDT=60.00:SDUR=  12.00:PTOT= 212.00]
03385> #-----------------|-------------------------------------------------------------|
03386> #-----------------|-------------------------------------------------------------|
03387> #                 |                                                             |
03388> #                 |                   Controlled Runoff From ZONE 1             |
03389> #                 |                                                             |
03390> #-----------------|-------------------------------------------------------------|
03391> #                 |                                                             |
03392> #-----------------|---------------- SWM Facility #1 Area -----------------------|
03393> #-----------------|------------------ West Site Area ----------------------------|
03394> #-----------------|-------------------------------------------------------------|
03395> R0001:C00445------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03396>     CALIB NASHYD          1.0 01:Ext 5          .97     .124 No_date   10:03  153.55 .724     .000
03397>       [CN= 77.7: N= 3.00: Tp=  .26]
03398> #-----------------|-------------------------------------------------------------|
03399> R0001:C00446------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03400>     CALIB STANDHYD        1.0 02:FB Z1-1       12.37    1.657 No_date   10:01  174.73 .824     .000
03401>       [XIMP=.30:TIMP=.50]
03402>       [LOSS= 2 :CN= 74.0]
03403>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03404>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 287.:MNI=.013:SCI=   .0]
03405> #-----------------|-------------------------------------------------------------|
03406> R0001:C00447------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03407>     CALIB STANDHYD        1.0 03:FB Z1-3         .98     .134 No_date   10:00  174.73 .824     .000
03408>       [XIMP=.30:TIMP=.50]
03409>       [LOSS= 2 :CN= 74.0]
03410>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03411>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  81.:MNI=.013:SCI=   .0]
03412> #-----------------|-------------------------------------------------------------|
03413> R0001:C00448------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03414>     CALIB STANDHYD        1.0 04:SWMF#1         1.90     .256 No_date   10:00  177.32 .836     .000
03415>       [XIMP=.50:TIMP=.50]
03416>       [LOSS= 2 :CN= 74.0]
03417>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03418>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 113.:MNI=.013:SCI=   .0]
03419> #-----------------|-------------------------------------------------------------|
03420> R0001:C00449------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03421>     ADD HYD               1.0 01:Ext 5          .97     .124 No_date   10:03  153.55  n/a     .000
03422>                     +     1.0 02:FB Z1-1       12.37    1.657 No_date   10:01  174.73  n/a     .000
03423>                     +     1.0 03:FB Z1-3         .98     .134 No_date   10:00  174.73  n/a     .000
03424>                     +     1.0 04:SWMF#1         1.90     .256 No_date   10:00  177.32  n/a     .000
03425>                   SUM=    1.0 05:P#1 IN        16.22    2.170 No_date   10:00  173.77  n/a     .000
03426> #-----------------|-------------------------------------------------------------|
03427> #-----------------|---------------- SWM Facility #1 ----------------------------|
03428> #-----------------|-------------------------------------------------------------|
03429> R0001:C00450------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03430>     ROUTE RESERVOIR ->    1.0 05:P#1 IN        16.22    2.170 No_date   10:00  173.77  n/a     .000
03431>                 out <=    1.0 01:P#1Out         8.83     .252 No_date    9:11  173.76  n/a     .000
03432>              overflow <=  1.0 02:P#1Over        7.39    1.918 No_date   10:01  173.77  n/a     .000
03433>      (MxStoUsed=.1092E+01  m3, TotOvfVol=.1284E+01  m3, N-Ovf=    2, TotDurOvf=    3.hrs)
03434> #-----------------|-------------------------------------------------------------|
03435> #-----------------|-------------------------------------------------------------|
03436> #                 |                                                             |
03437> #                 |                   Watercourse Flows- ZONE 1                 |
03438> #                 |                                                             |
03439> #-----------------|-------------------------------------------------------------|
03440> #-----------------|-------------------------------------------------------------|
03441> #-----------------|---------------- West Watercourse Area ----------------------|
03442> #-----------------|-------------- Small Unnmaed Tributary ----------------------|
03443> #-----------------|-------------------------------------------------------------|
03444> R0001:C00451------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03445>     CALIB NASHYD          1.0 03:Ext 1         41.20    4.351 No_date   10:27  143.87 .679     .000
03446>       [CN= 74.1: N= 3.00: Tp=  .57]
03447> #-----------------|-------------------------------------------------------------|
03448> R0001:C00452------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03449>     ROUTE CHANNEL   ->    1.0 03:Ext 1         41.20    4.351 No_date   10:27  143.87  n/a     .000
03450>      [RDT= 1.00] out<-    1.0 04:SiteLag       41.20    4.300 No_date   10:39  143.87  n/a     .000
03451>       [L/S/n=  425./ .960/.035]
03452>       (Vmax=  .757:Dmax=  .508)
03453> R0001:C00453------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03454>     CALIB NASHYD          1.0 05:FB Z1-2        5.68     .676 No_date   10:10  150.18 .708     .000
03455>       [CN= 77.0: N= 3.00: Tp=  .40]
03456> #-----------------|-------------------------------------------------------------|
03457> #-----------------|-------- Total Flow at South Property Line ----------------|
03458> #-----------------|-------------------------------------------------------------|
03459> R0001:C00454------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03460>     ADD HYD               1.0 01:P#1Out         8.83     .252 No_date    9:11  173.76  n/a     .000
03461>                     +     1.0 02:P#1Over        7.39    1.918 No_date   10:01  173.77  n/a     .000
03462>                     +     1.0 04:SiteLag       41.20    4.300 No_date   10:39  143.87  n/a     .000
03463>                     +     1.0 05:FB Z1-2        5.68     .676 No_date   10:10  150.18  n/a     .000
03464>                   SUM=    1.0 03:UnC PL        63.10    6.616 No_date   10:28  152.12  n/a     .000
03465> #-----------------|-------------------------------------------------------------|
03466> R0001:C00455------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03467>     ROUTE CHANNEL   ->    1.0 03:UnC PL        63.10    6.616 No_date   10:28  152.12  n/a     .000
03468>      [RDT= 1.00] out<-    1.0 01:DS Lag        63.10    6.613 No_date   10:31  152.12  n/a     .000
03469>       [L/S/n=  150./ .960/.035]
03470>       (Vmax=  .793:Dmax=  .554)
03471> #-----------------|-------------------------------------------------------------|
03472> R0001:C00456------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03473>     CALIB NASHYD          1.0 02:Ext 3          1.55     .139 No_date   10:19  109.88 .518     .000
03474>       [CN= 60.0: N= 3.00: Tp=  .47]
03475> #-----------------|-------------------------------------------------------------|
03476> #-----------------|-------------------------------------------------------------|
03477> #                 |                                                             |
03478> #                 |                   Controlled Runoff From ZONE 2             |
03479> #                 |                                                             |
03480> #-----------------|-------------------------------------------------------------|
03481> #-----------------|-------------------------------------------------------------|
03482> R0001:C00457------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03483>     CALIB STANDHYD        1.0 03:FB1           14.70    1.986 No_date   10:01  178.07 .840     .000
03484>       [XIMP=.35:TIMP=.55]
03485>       [LOSS= 2 :CN= 74.0]
03486>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03487>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 313.:MNI=.013:SCI=   .0]
03488> #-----------------|-------------------------------------------------------------|
03489> R0001:C00458------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03490>     CALIB STANDHYD        1.0 04:MINOR          .21     .029 No_date   10:00  184.51 .870     .000
03491>       [XIMP=.61:TIMP=.61]
03492>       [LOSS= 2 :CN= 74.0]
03493>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03494>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  37.:MNI=.013:SCI=   .0]
03495> #-----------------|-------------------------------------------------------------|
03496> R0001:C00459------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03497>     DIVERT HYD      ->    1.0 04:MINOR          .21     .029 No_date   10:00  184.51  n/a     .000
03498>             diverted <=   1.0 05:MINOR          .21     .029 No_date   10:00  184.51  n/a     .000
03499>             diverted <=   1.0 06:MAJOR          .00     .000 No_date    0:00     .00  n/a     .000
03500> #-----------------|-------------------------------------------------------------|
03501> R0001:C00460------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03502>     CALIB STANDHYD        1.0 04:FB1-A          .33     .045 No_date   10:00  166.08 .783     .000
03503>       [XIMP=.01:TIMP=.39]
03504>       [LOSS= 2 :CN= 74.0]
03505>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03506>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  47.:MNI=.013:SCI=   .0]
03507> #-----------------|-------------------------------------------------------------|
03508> R0001:C00461------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03509>     CALIB STANDHYD        1.0 07:SWMF#2         1.11     .150 No_date   10:00  177.97 .840     .000
03510>       [XIMP=.51:TIMP=.51]
03511>       [LOSS= 2 :CN= 74.0]
03512>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03513>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI=  86.:MNI=.013:SCI=   .0]
03514> #-----------------|-------------------------------------------------------------|
03515> #-----------------|-------------------------------------------------------------|
03516> R0001:C00462------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03517>     ADD HYD               1.0 03:FB1           14.70    1.986 No_date   10:01  178.07  n/a     .000
03518>                     +     1.0 05:MINOR          .21     .029 No_date   10:00  184.51  n/a     .000
03519>                     +     1.0 04:FB1-A          .33     .045 No_date   10:00  166.08  n/a     .000
03520>                     +     1.0 07:SWMF#2        1.11     .150 No_date   10:00  177.97  n/a     .000
03521>                   SUM=    1.0 08:P#2 In        16.35    2.210 No_date   10:00  177.90  n/a     .000
03522> #-----------------|-------------------------------------------------------------|
03523> #-----------------|---------------- SWM Facility #2 ----------------------------|
03524> #-----------------|-------------------------------------------------------------|
03525> R0001:C00463------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03526>     ROUTE RESERVOIR ->    1.0 08:P#2 In        16.35    2.210 No_date   10:00  177.90  n/a     .000
03527>                 out <=    1.0 03:P#2Out        16.35    1.865 No_date   10:19  177.90  n/a     .000
03528>              overflow <=  1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
03529>      (MxStoUsed=.8374E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
03530> #-----------------|-------------------------------------------------------------|
03531> R0001:C00464------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03532>     ADD HYD               1.0 03:P#2Out        16.35    1.865 No_date   10:19  177.90  n/a     .000
03533>                     +     1.0 04:P#2Over        .00     .000 No_date    0:00     .00  n/a     .000
03534>                   SUM=    1.0 05:P#2 Out       16.35    1.865 No_date   10:19  177.90  n/a     .000
03535> #-----------------|-------------------------------------------------------------|
03536> R0001:C00465------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03537>     DIVERT HYD      ->    1.0 05:P#2 Out       16.35    1.865 No_date   10:19  177.90  n/a     .000
03538>             diverted <=   1.0 03:PTwoW          4.57     .482 No_date   10:19  177.90  n/a     .000
03539>             diverted <=   1.0 04:PTwoE         11.72    1.384 No_date   10:19  177.90  n/a     .000
03540> #-----------------|-------------------------------------------------------------|
03541> #                 |                                                             |
03542> #                 |                   Watercourse Flows- ZONE 2                 |
03543> #                 |                                                             |
03544> #-----------------|-------------------------------------------------------------|
03545> #-----------------|-------------------------------------------------------------|
03546> #-----------------|-------------- East Watercourse Area ----------------------|
03547> #-----------------|--------------       Foley Drain          ------------------|
03548> #-----------------|-------------------------------------------------------------|
03549> R0001:C00466------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03550>     CALIB NASHYD          1.0 05:Ext-2        417.20   29.634 No_date   11:59  143.81 .678     .000
03551>       [CN= 74.7: N= 3.00: Tp= 1.87]
03552> #-----------------|-------------------------------------------------------------|
03553> R0001:C00467------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03554>     CALIB NASHYD          1.0 07:NAT            6.51     .809 No_date   10:07  155.00 .731     .000
03555>       [CN= 79.1: N= 3.00: Tp=  .36]
03556> #-----------------|-------------------------------------------------------------|
03557> R0001:C00468------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03558>     ADD HYD               1.0 05:Ext-2        417.20   29.634 No_date   11:59  143.81  n/a     .000
03559>                     +     1.0 07:NAT            6.51     .809 No_date   10:07  155.00  n/a     .000
03560>                   SUM=    1.0 08:FIn           423.71   29.892 No_date   11:58  143.98  n/a     .000
```

```
03561> #-----------------|-------------------------------------------------------------|
03562> R0001:C00469------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03563>     ROUTE CHANNEL   ->    1.0 08:FIn          423.71   29.892 No_date   11:58  143.98  n/a     .000
03564>      [RDT= 1.00] out<-    1.0 05:SiteLag      423.71   29.837 No_date   12:04  143.98  n/a     .000
03565>       [L/S/n=  550./ .650/.035]
03566>       (Vmax= 1.259:Dmax= 1.714)
03567> #-----------------|-------------------------------------------------------------|
03568> #-----------------|-------------------------------------------------------------|
03569> #                 |                                                             |
03570> #                 |                   Controlled Runoff From ZONE 3             |
03571> #                 |                                                             |
03572> #-----------------|-------------------------------------------------------------|
03573> #-----------------|-------------------------------------------------------------|
03574> R0001:C00470------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03575>    CALIB STANDHYD        1.0 07:FB2           10.10    1.385 No_date   10:00  180.18 .850     .000
03576>       [XIMP=.32:TIMP=.59]
03577>       [LOSS= 2 :CN= 74.0]
03578>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03579>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 259.:MNI=.013:SCI=   .0]
03580> #-----------------|-------------------------------------------------------------|
03581> R0001:C00471------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03582>     CALIB STANDHYD        1.0 08:SWMF3          1.21     .163 No_date   10:00  177.32 .836     .000
03583>       [XIMP=.50:TIMP=.50]
03584>       [LOSS= 2 :CN= 74.0]
03585>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03586>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI=  90.:MNI=.013:SCI=   .0]
03587> #-----------------|-------------------------------------------------------------|
03588> R0001:C00472------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03589>     ADD HYD               1.0 07:FB2           10.10    1.385 No_date   10:00  180.18  n/a     .000
03590>                     +     1.0 08:SWMF3          1.21     .163 No_date   10:00  177.32  n/a     .000
03591>                   SUM=    1.0 09:P3IN          11.31    1.549 No_date   10:00  179.87  n/a     .000
03592> #-----------------|-------------------------------------------------------------|
03593> #-----------------|-------------------------------------------------------------|
03594> #-----------------|---------------- SWM Facility #3 ----------------------------|
03595> #-----------------|-------------------------------------------------------------|
03596> R0001:C00473------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03597>     ROUTE RESERVOIR ->    1.0 09:P3IN          11.31    1.549 No_date   10:00  179.87  n/a     .000
03598>                 out <=    1.0 07:P#3Out        11.31    1.203 No_date   10:31  179.87  n/a     .000
03599>             overflow <=   1.0 08:P#2Over         .00     .000 No_date    0:00     .00  n/a     .000
03600>      (MxStoUsed=.1146E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs)
03601> #-----------------|-------------------------------------------------------------|
03602> R0001:C00474------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03603>     ADD HYD               1.0 04:PTwoE         11.72    1.384 No_date   10:19  177.90  n/a     .000
03604>                     +     1.0 05:SiteLag      423.71   29.837 No_date   12:04  143.98  n/a     .000
03605>                     +     1.0 07:P#3Out        11.31    1.203 No_date   10:31  179.87  n/a     .000
03606>                     +     1.0 08:P#2Over         .00     .000 No_date    0:00     .00  n/a     .000
03607>                   SUM=    1.0 09:Foley Drai   446.74   31.079 No_date   11:58  145.78  n/a     .000
03608> #-----------------|-------------------------------------------------------------|
03609> R0001:C00475------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03610>     CALIB NASHYD          1.0 04:Ext 4          6.30     .567 No_date   10:40  120.02 .566     .000
03611>       [CN= 64.8: N= 3.00: Tp=  .64]
03612> #-----------------|-------------------------------------------------------------|
03613> R0001:C00476------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03614>     ADD HYD               1.0 09:Foley Drai   446.74   31.079 No_date   11:58  145.78  n/a     .000
03615>                     +     1.0 04:Ext 4          6.30     .567 No_date   10:40  120.02  n/a     .000
03616>                   SUM=    1.0 05:Pt of IntF   453.04   31.416 No_date   11:58  145.42  n/a     .000
03617> #-----------------|-------------------------------------------------------------|
03618> R0001:C00477------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03619>     ADD HYD               1.0 01:DS Lag        63.10    6.613 No_date   10:31  152.12  n/a     .000
03620>                     +     1.0 02:Ext 3          1.55     .139 No_date   10:19  109.88  n/a     .000
03621>                     +     1.0 03:PTwoW          4.57     .482 No_date   10:19  177.90  n/a     .000
03622>                     +     1.0 06:MAJOR           .00     .000 No_date    0:00     .00  n/a     .000
03623>                   SUM=    1.0 10:Pt of IntT    69.22    7.227 No_date   10:29  152.87  n/a     .000
03624> #-----------------|-------------------------------------------------------------|
03625> #-----------------|-------------------------------------------------------------|
03626> R0001:C00478-----------------------------------------------------------------------------------------
03627>    FINISH
03628> -----------------------------------------------------------------------------------------------------
03629> ****************************************************************************************************
03630>      WARNINGS / ERRORS / NOTES
03631>      -------------------------
03632>    Simulation ended on 2020-01-17     at 15:23:53
03633> ===================================================================================================
03634>
03635>
```

Appendix C

Sanitary Servicing Calculations -Townhomes

Sanitary Servicing Calculations – Commercial Use

CROZIER
CONSULTING ENGINEERS

Project: Flato East Commericial Block
Project No.: 1060-5384
Date: 14-Jan-20
By: EB
Check: BP

Sanitary Flow Estimates -Dundalk East Townhouses (Previously Proposed)

Site Statistics

Site Area		0.80	ha

Residential

Persons per New Development Unit	(Per 2019 Reserve Capacity Study)	2.8	persons/unit
Number of Townhouses		33	units
Design Population		92.40	persons

Sanitary Design Flows

Daily Domestic Flow per Capita	(Per 2019 Reserve Capacity Study)	350	L/cap/day

Flows

Average Daily Domestic Flow	0.37	L/s
Harmon Peaking Factor	4.00	
Maximum Peak Flow	1.50	L/s

Inflow and Infiltration

Infiltration Typical	0.15	L/s/ha
Infiltration Inflow	0.12	L/s

Total Residential Sanitary Design Flow **1.62 L/s**

CROZIER
CONSULTING ENGINEERS

Project: Dundalk Commercial
Project No.: 1060-5384
Date: 10-Jan-20
By: EB
Check: BP

Dundalk Commercial Development Sanitary Design Criteria

Site Statistics			
Site Area	(Area of changed land use)	0.8	ha
Commercial Sanitary Design Flows			
Retail Floor Area		1635	m^2
Typical Usage (per OBC Table 8.2.1.3(B))		5	$L/m^2/day$
Total Commercial Sanitary Design Flows			
Daily Flow from Retail/ Commercial		0.09	L/sec
Commercial Peaking Factor	(Per Town Standards)	1.0	
Maximum Peak Flow		0.09	L/sec
Inflow and Infiltration			
Unit Infiltration Allowance		0.23	L/s/ha
Total Infiltration		0.18	L/s
Total Commercial Sanitary Design Flow		**0.28**	**L/s**

Appendix D

Domestic Water Servicing Calculations -Townhomes

Domestic Water Servicing Calculations -Commercial Use

Fire Flow Calculations – Commercial Use

Project: Flato East Commericial Block
Project No.: 1060-5384
Date: 14-Jan-20
By: EB
Check: BP

Domestic Water Demand Estimates -Dundalk East Townhouses (Previously Proposed)

Site Statistics

Site Area	0.80	ha
Persons Per TownHouse	2.8	persons/unit
Number Units	33	units
Design Population	92.40	persons

Water Design Flows

Criteria

Average Daily Domestic Flow per Capita (Max Flows per 2019 Reserve Capacity Study)	337	L/cap/day

Flows

Average Daily Domestic Flow	0.36	L/s
Maximum Day Factor (Per MECP Guidleines - Systems of 100 Persons)	3.60	L/s
Peak Hour Factor (Per MECP Guidleines - Systems of 100 Persons)	5.40	L/s
Maximum Daily Demand	1.30	
Peak Hour Demand	1.95	

CROZIER
CONSULTING ENGINEERS

Project: Dundalk Commercial
Project No.: 1060-5384
Date: 10-Jan-20
By: EB
Check: BP

Dundalk Commercial - Water Design Criteria

Site Statistics

Site Area	0.80	ha

Commercial

Retail Floor Area	1635	m^2

Commercial Water Design Flows

Commercial/ Retail (per OBC (2012) Table 8.2.1.3(B))	5	$L/m^2/day$

Total Commercial Water Design Flows

Daily Flow from Retail (per OBC (2012) Table 8.2.1.3(B))	0.09	L/sec

Equivalent Population:

Daily Flows	8175	L/day
Per Capita Water Usage (Per 2019 Reserve Capacity Study - New Development Usage)	337.00	L/capital/day
Equivalent Population	24.3	Persons
Average Daily Flow	0.09	L/sec
Maximum Day Factor (Per MECP Guidleines - Systems of 30 Persons)	9.50	
Peak Hour Factor (Per MECP Guidleines - Systems of 30 Persons)	14.30	
Maximum Daily Demand	0.90	L/sec
Peak Hour Demand	1.35	L/sec

Dundalk Commercial Block
Fire Protection Volume Calculation
CFCA File: 1060-5384

* Based on Site Plan

Water Supply for Public Fire Protection - 1999
Fire Underwriters Survey

Part II - Guide for Determination of Required Fire Flow

1. An estimate of fire flow required for a given area may be determined by the formula:

$$F = 220 * C * \text{sqrt } A$$

where

F = the required fire flow in litres per minute
C = coefficient related to the type of construction
= 1.5 for wood frame construction (structure essentially all combustible)
= 1.0 for ordinary construction (brick or other masonry walls, combustible floor and interior)
= 0.8 for non-combustible construction (unprotected metal structural components)
= 0.6 for fire-resistive construction (fully protected frame, floors, roof)
A = The total floor area in square metres (including all storeys, but excluding basements at least 50 percent below grade) in the building considered.

		Assume Ordinary Construction
1	number of floors	1.0 C
1635	sq.m. total floor area	

Therefore F= 9,000 L/min (rounded to nearest 1000 L/min)

Fire flow determined above shall not exceed:

30,000 L/min for wood frame construction
30,000 L/min for ordinary construction
25,000 L/min for non-combustible construction
25,000 L/min for fire-resistive construction

2. Values obtained in No. 1 may be reduced by as much as 25% for occupancies having low contents fire hazard or may be increased by up to 25% surcharge for occupancies having a high fire hazard.

Non-Combustible	-25%	Free Burning	15%
Limited Combustible	-15%	Rapid Burning	25%
Combustible	No Charge		

Low fire Hazard occupancy for dwellings	0% reduction

0 L/min reduction

Note: Flow determined shall not be less than 2,000 L/min

3. Sprinklers - The value obtained in No. 2 above maybe reduce by up to 50% for complete automatic sprinkler protection.

Automatic Sprinklers conforming to NFPA 13 sprinkler standards is assumed.
2,700 L/min surcharge / reduction

Dundalk Commercial Block
Fire Protection Volume Calculation
CFCA File: 1060-5384

* Based on Site Plan

Water Supply for Public Fire Protection - 1999
Fire Underwriters Survey

Part II - Guide for Determination of Required Fire Flow

4. Exposure - To the value obtained in No. 2, a percentage should be added for structures exposed within 45 metres by the fire area under consideration. The percentage shall depend upon the height, area, and construction of the building(s) being exposed, the separation, openings in the exposed building(s), the length and height of exposure, the provision of automatic sprinklers and/or outside sprinklers in the building(s) exposed, the occupancy of the exposed building(s) and the effect of hillside locations on the possible spread of fire.

Separation	Charge	Separation	Charge
0 to 3 m	25%	20.1 to 30 m	10%
3.1 to 10 m	20%	30.1 to 45 m	5%
10.1 to 20 m	15%		

Exposed buildings

Name	**Type**	**Distance**		
North	Block 347 (Property Line)	8	20%	1800
East	Blocks 302-310 (Property Line)	27.5	10%	900
South	N/A			0
West	N/A			0
				2,700 L/min Surcharge

Determine Required Fire Flow

No.1	9,000	
No. 2	0	reduction
No. 3	2,700	reduction
No. 4	2,700	surcharge
Required Flow:	**9,000 L/min**	
Rounded to nearest 1000l/min:	**9,000 L/min**	or 150.0 L/s
		2,378 USGPM

Determine Required Fire Storage Volume

Flow from above	9,000	L/min
Required duration	3.50	hours
Therefore:	1,890,000	Litres or
	1,890	cu.m. is the required fire storage volume.

Required Duration of Fire Flow

Flow Required L/min	Duration (hours)
2,000 or less	1.0
3,000	1.25
4,000	1.5
5,000	1.75
6,000	2.0
8,000	2.0
10,000	2.0
12,000	2.5
14,000	3.0
16,000	3.5
18,000	4.0
20,000	4.5
22,000	5.0
24,000	5.5
26,000	6.0
28,000	6.5
30,000	7.0
32,000	7.5
34,000	8.0
36,000	8.5
38,000	9.0
40,000 and over	9.5

Dundalk Commercial Block
Fire Protection Volume Calculation
CFCA File: 1060-5384

* Based on Site Plan

Calculation Check

Office of the Fire Marshall - Fire Protection Water Supply Guideline for Part 3 in the OBC (October 2006)

$$Q = KVS_{TOT}$$

Q = minimum supply of water in litres (L)
K = water supply coefficient
V = total building volume in cubic metres
S_{TOT} = total of spatial coefficient values from property line exposures on all sides

First Floor

K =	39	Group E building with combustible construction (Table 1)
V =	6540	*Assuming a floor h of 4m
S_{TOT} =	1.2	S_{TOT} Need Not Exceed 2.0

Q = 306072 L

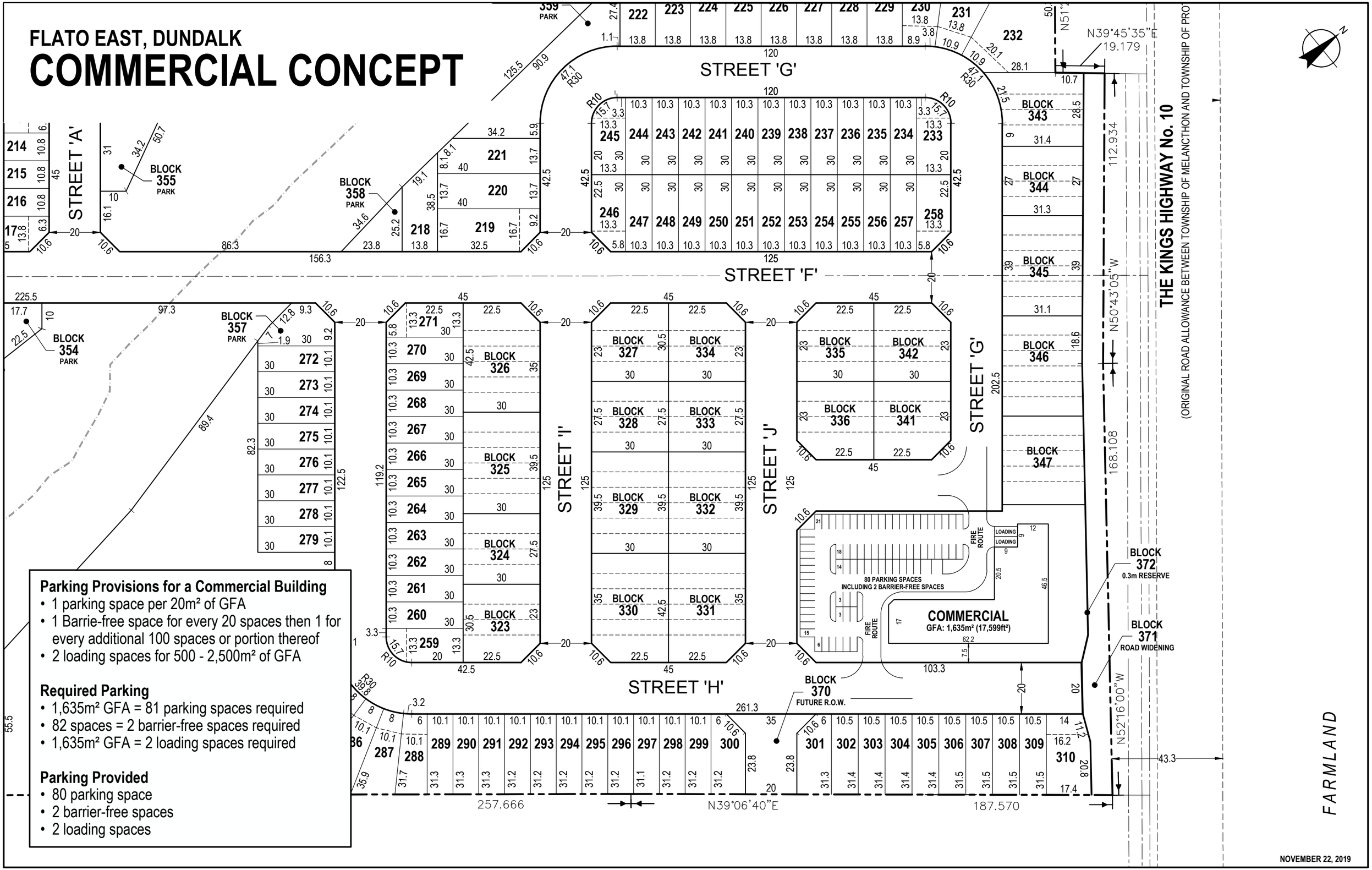
Table 2

9000	**L/min**
150	**L/s**

Figures

FLATO EAST, DUNDALK

COMMERCIAL CONCEPT



Parking Provisions for a Commercial Building

- 1 parking space per 20m² of GFA
- 1 Barrie-free space for every 20 spaces then 1 for every additional 100 spaces or portion thereof
- 2 loading spaces for 500 - 2,500m² of GFA

Required Parking

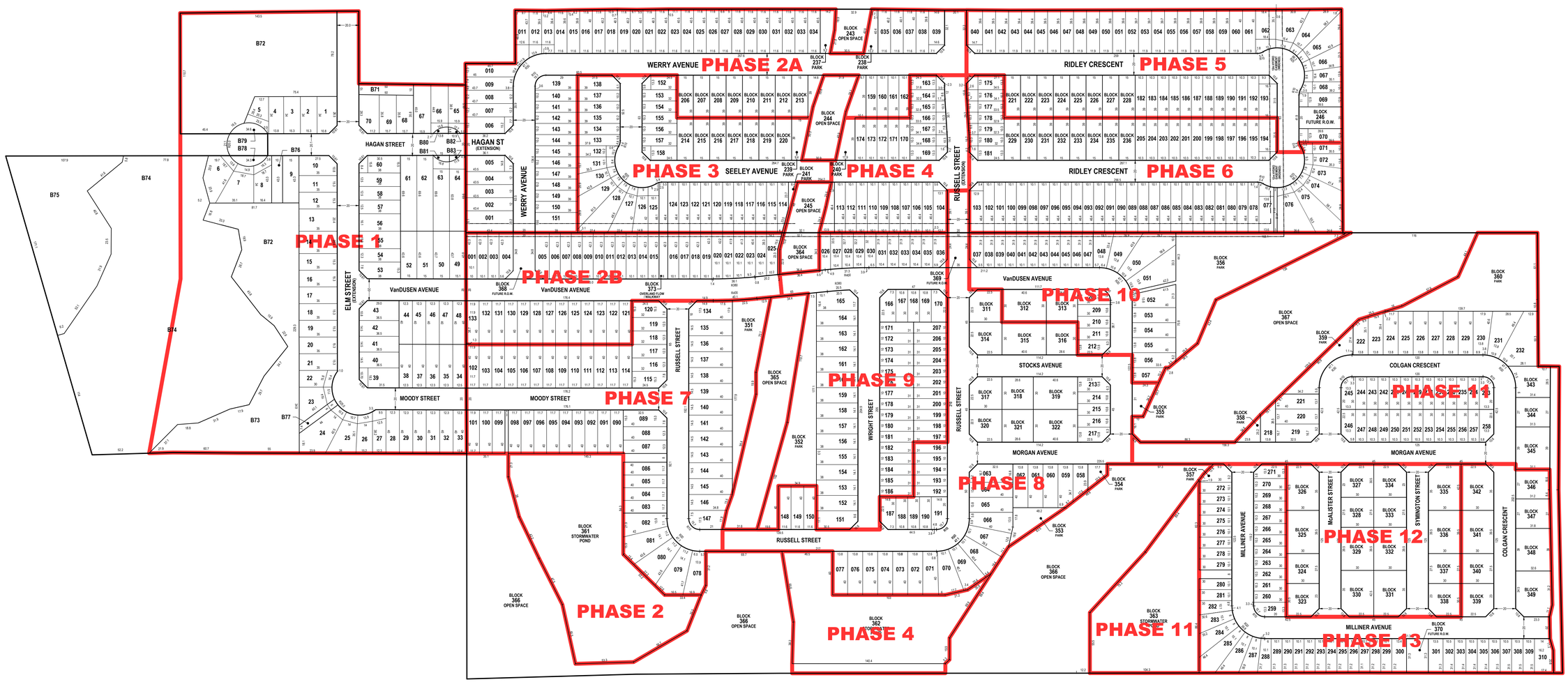
- 1,635m² GFA = 81 parking spaces required
- 82 spaces = 2 barrier-free spaces required
- 1,635m² GFA = 2 loading spaces required

Parking Provided

- 80 parking space
- 2 barrier-free spaces
- 2 loading spaces

NOVEMBER 22, 2019

FLATO DUNDALK
COMPOSITE PHASING PLAN



April 15, 2019