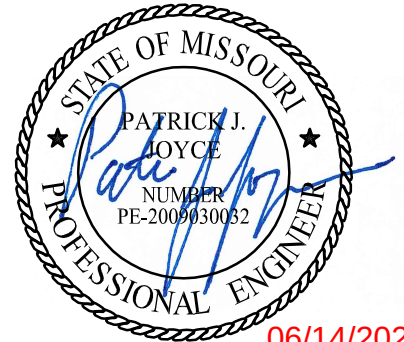


AS-BUILT STORMWATER DRAINAGE STUDY ADDENDUM 1

Highland Meadows Phase 5&6
Lee's Summit Missouri

Prepared For:
Summit Homes
120 SE 30th Street
Lee's Summit MO 64082

Prepared By:
Anderson Engineering, Inc.
941 W. 141st Ter., Ste. A
Kansas City, MO 64145



June 14, 2022

AndersonEngineeringInc.com

941 W. 141st Terrace, Suite A, Kansas City, Missouri 64145 • Phone: 816-777-0400



Appendices

Detention Basin Plan & Profile – As-built Plan

Water Quality Volume Calculations

Detention Basin Outlet Control Structure – As-built Detail

Pondpack Model – As-built Master Summary



This addendum to the final stormwater report for Highland Meadows 5th & 6th Plats was prepared to summarize the as-built conditions of the dry detention basin that was constructed, and verify that it is in compliance with the City of Lee's Summit stormwater detention requirements. Anderson Engineering Inc. performed an as-built topographic survey of the basin, as well as field verification of the outlet control structure that was installed.

The detention basin was designed with adequate storage volume to reduce stormwater discharge leaving the site. The storage volume of the basin that was constructed closely matches the design storage volumes, which are summarized in Table 1 below.

TABLE 1: Basin Stage vs. Storage Comparison				
Elevation (ft)	Area Design (ft ²)	Area As-Built (ft ²)	Volume Sum Design* (ft ³)	Volume Sum As-Built* (ft ³)
949.00	5	5	0	0
950.00	3,454	2,313	1,197	809
951.00	11,395	9,362	8,237	6,251
952.00	21,500	17,253	24,418	19,358
953.00	28,246	24,915	49,212	40,323
954.00	31,693	30,390	79,162	67,927
955.00	34,829	34,097	112,407	100,149
956.00	38,299	37,925	148,954	136,140
957.00	41,907	41,908	189,039	176,036
958.00	45,690	46,069	232,819	220,003
959.00	49,388	50,600	280,352	268,315

**Incremental volumes calculated using the conic method.*

Table 2 below summarizes the outlet control structure conditions that were field verified by Anderson Engineering Inc., and compares them to the designed structure. The only deviations from the original design were increasing the size of the top orifice plate orifice (Row 4) from 1" to 1.5", and installing the 7'x1' Rectangular opening on the rear of the structure, which will effectively function the same, without sacrificing the structural integrity of the concrete structure.

TABLE 2: Outlet Control Structure Openings				
	Design Flowline Elevation	As-Built Flowline Elevation	Design Size	As-Built Size
Orifice Plate - Row 1 (Bottom)	949.00	949.20	1.5"	1.5"
Orifice Plate - Row 2	950.00	950.20	1.0"	1.0"
Orifice Plate - Row 3	951.00	951.20	1.0"	1.0"
Orifice Plate - Row 4 (Top)	952.00	952.20	1.0"	1.5"
4'x3' Rectangular Opening (Front)	952.80	952.75	4'x3'	4'x3'
7'x1' Rectangular Opening (Front)	955.80	955.75	7'x1'	7'x1'
7'x0.5' Rectangular Opening (Back)	957.30	957.25	7'x0.5'	7'x0.5'
4'x0.5' Rectangular Opening x2 (Sides)	957.30	957.25	4'x0.5'	4'x0.5'



KC APWA 5608.4 requires the water quality storm event (1.37"/24-hr rainfall) be released over a minimum period of 40 hours, per section 8.10 of the MARC BMP Manual. The orifice plate provided on the outlet control structure was designed such that the water quality volume of 55,913 ft³ would be released over a minimum period of 40 hours. Based on an excel spreadsheet attached that uses the orifice equation, if all of the orifice rows were 1" in diameter, the water quality volume would drain in approximately 76.7 hours. If all of the orifice rows were 1.5" in diameter, the water quality volume would drain in 34.1 hours. Therefore, since the basin actually has four 1.5" orifices, and four 1" orifices, the water quality volume would drain somewhere between the minimum 40-hour requirement and maximum 72-hour requirement. Refer to Water Quality Volume spreadsheets included in the Appendix.

Per KC APWA Section 5608.4 and the City of Lee's Summit stormwater requirements, discharge rates from a developed site shall not exceed those as indicated below:

- 50% storm peak rate less than or equal to 0.5 cfs per site acre
- 10% storm peak rate less than or equal to 2.0 cfs per site acre
- 1% storm peak rate less than or equal to 3.0 cfs per site acre

Table 3 below summarizes the allowable, designed, and as-built discharge rates for the basin that was constructed.

TABLE 3: 2-yr, 10-yr, 100-yr Allowable, Design, and As-Built Storm Release Rates at POI #1			
	2-yr Q _p (cfs)	10-yr Q _p (cfs)	100-yr Q _p (cfs)
Allowable Release	28.34	105.08	192.60
Design Release Rate	10.34	88.88	183.98
As-Built Release Rate	23.43	94.14	185.82

The basin was designed in accordance with the City of Lee's Summit design and construction standards for stormwater detention facilities and constructed to function as such. The basin was topographically surveyed and outlet control structure elevations have been verified. The basin functions as intended and reduces the stormwater runoff of the site and provides sufficient water quality.



Appendix

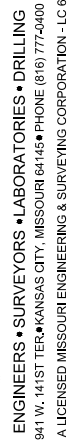


1. ALL CONCRETE SHALL BE KOMMB 4K.
2. ALL REINFORCING STEEL SHALL BE 60 KSI.
3. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
4. FLOOR OF INLET SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERT TO PROVIDE SMOOTH FLOW.
5. EXPANSION JOINTS SHALL BE EITHER HOT OR COLD POURED JOINT SEALING COMPOUND, OR PREMOLDED EXPANSION JOINT FILLER.
6. BEVEL ALL EXPOSED EDGES WITH TRIANGULAR MOLDING.
7. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $\pm 1/8"$ SHALL BE PERMITTED.
8. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
9. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
10. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
11. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
12. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
13. RCP CONNECTIONS TO PRECAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.

12" CONCRETE FOOTING
(#5 BARS @ 6" O.C E.W.)



The information provided on this drawing conforms to construction records; it is not intended for construction, implementation or recording purposes; and it is solely based on information obtained by my firm. *100.00 100.10 100.20 100.30 100.40 100.50 100.60 100.70 100.80 100.90 101.00 101.10 101.20 101.30 101.40 101.50 101.60 101.70 101.80 101.90 102.00 102.10 102.20 102.30 102.40 102.50 102.60 102.70 102.80 102.90 103.00 103.10 103.20 103.30 103.40 103.50 103.60 103.70 103.80 103.90 104.00 104.10 104.20 104.30 104.40 104.50 104.60 104.70 104.80 104.90 105.00 105.10 105.20 105.30 105.40 105.50 105.60 105.70 105.80 105.90 106.00 106.10 106.20 106.30 106.40 106.50 106.60 106.70 106.80 106.90 107.00 107.10 107.20 107.30 107.40 107.50 107.60 107.70 107.80 107.90 108.00 108.10 108.20 108.30 108.40 108.50 108.60 108.70 108.80 108.90 109.00 109.10 109.20 109.30 109.40 109.50 109.60 109.70 109.80 109.90 110.00 110.10 110.20 110.30 110.40 110.50 110.60 110.70 110.80 110.90 111.00 111.10 111.20 111.30 111.40 111.50 111.60 111.70 111.80 111.90 112.00 112.10 112.20 112.30 112.40 112.50 112.60 112.70 112.80 112.90 113.00 113.10 113.20 113.30 113.40 113.50 113.60 113.70 113.80 113.90 114.00 114.10 114.20 114.30 114.40 114.50 114.60 114.70 114.80 114.90 115.00 115.10 115.20 115.30 115.40 115.50 115.60 115.70 115.80 115.90 116.00 116.10 116.20 116.30 116.40 116.50 116.60 116.70 116.80 116.90 117.00 117.10 117.20 117.30 117.40 117.50 117.60 117.70 117.80 117.90 118.00 118.10 118.20 118.30 118.40 118.50 118.60 118.70 118.80 118.90 119.00 119.10 119.20 119.30 119.40 119.50 119.60 119.70 119.80 119.90 120.00 120.10 120.20 120.30 120.40 120.50 120.60 120.70 120.80 120.90 121.00 121.10 121.20 121.30 121.40 121.50 121.60 121.70 121.80 121.90 122.00 122.10 122.20 122.30 122.40 122.50 122.60 122.70 122.80 122.90 123.00 123.10 123.20 123.30 123.40 123.50 123.60 123.70 123.80 123.90 124.00 124.10 124.20 124.30 124.40 124.50 124.60 124.70 124.80 124.90 125.00 125.10 125.20 125.30 125.40 125.50 125.60 125.70 125.80 125.90 126.00 126.10 126.20 126.30 126.40 126.50 126.60 126.70 126.80 126.90 127.00 127.10 127.20 127.30 127.40 127.50 127.60 127.70 127.80 127.90 128.00 128.10 128.20 128.30 128.40 128.50 128.60 128.70 128.80 128.90 129.00 129.10 129.20 129.30 129.40 129.50 129.60 129.70 129.80 129.90 130.00 130.10 130.20 130.30 130.40 130.50 130.60 130.70 130.80 130.90 131.00 131.10 131.20 131.30 131.40 131.50 131.60 131.70 131.80 131.90 132.00 132.10 132.20 132.30 132.40 132.50 132.60 132.70 132.80 132.90 133.00 133.10 133.20 133.30 133.40 133.50 133.60 133.70 133.80 133.90 134.00 134.10 134.20 134.30 134.40 134.50 134.60 134.70 134.80 134.90 135.00 135.10 135.20 135.30 135.40 135.50 135.60 135.70 135.80 135.90 136.00 136.10 136.20 136.30 136.40 136.50 136.60 136.70 136.80 136.90 137.00 137.10 137.20 137.30 137.40 137.50 137.60 137.70 137.80 137.90 138.00 138.10 138.20 138.30 138.40 138.50 138.60 138.70 138.80 138.90 139.00 139.10 139.20 139.30 139.40 139.50 139.60 139.70 139.80 139.90 140.00 140.10 140.20 140.30 140.40 140.50 140.60 140.70 140.80 140.90 141.00 141.10 141.20 141.30 141.40 141.50 141.60 141.70 141.80 141.90 142.00 142.10 142.20 142.30 142.40 142.50 142.60 142.70 142.80 142.90 143.00 143.10 143.20 143.30 143.40 143.50 143.60 143.70 143.80 143.90 144.00 144.10 144.20 144.30 144.40 144.50 144.60 144.70 144.80 144.90 145.00 145.10 145.20 145.30 145.40 145.50 145.60 145.70 145.80 145.90 146.00 146.10 146.20 146.30 146.40 146.50 146.60 146.70 146.80 146.90 147.00 147.10 147.20 147.30 147.40 147.50 147.60 147.70 147.80 147.90 148.00 148.10 148.20 148.30 148.40 148.50 148.60 148.70 148.80 148.90 149.00 149.10 149.20 149.30 149.40 149.50 149.60 149.70 149.80 149.90 150.00 150.10 150.20 150.30 150.40 150.50 150.60 150.70 150.80 150.90 151.00 151.10 151.20 151.30 151.40 151.50 151.60 151.70 151.80 151.90 152.00 152.10 152.20 152.30 152.40 152.50 152.60 152.70 152.80 152.90 153.00 153.10 153.20 153.30 153.40 153.50 153.60 153.70 153.80 153.90 154.00 154.10 154.20 154.30 154.40 154.50 154.60 154.70 154.80 154.90 155.00 155.10 155.20 155.30 155.40 155.50 155.60 155.70 155.80 155.90 156.00 156.10 156.20 156.30 156.40 156.50 156.60 156.70 156.80 156.90 157.00 157.10 157.20 157.30 157.40 157.50 157.60 157.70 157.80 157.90

CORVBRIGHT ANDERSON ENGINEERING INC 2020

STORM SEWER DETAILS (3)



S10, T47N, R32W
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

WATER QUALITY OUTLET STRUCTURE DISCHARGE COMPUTATIONS

****ENTER THE FOLLOWING INFORMATION****

PROJECT: Highland Meadows Detention As-Built
DATE: 6/14/2022

RISER PIPE DIAMETER: N/A INCHES
OUTLET PIPE DIA.: N/A INCHES

PERFORATION DIA: 1.0000 INCHES
HOLES PER ROW: 2
ORIFICE AREA: 1.5708 SQ. IN.
(TOTAL FOR ROW)
ROW SPACING: 12 INCHES
NUMBER OF ROWS: 4

FLOWLINE ELEVATION
AT BOTTOM OF BASIN: 949.00

MAXIMUM PONDING
ELEV. FOR
EXTENDED DETENTION: 957.80

IN COLUMN A, ENTER WATER ELEVATIONS AT 3" INCREMENTS BEGINNING WITH THE ELEVATION ENTERED ABOVE FOR MAXIMUM PONDING ELEVATION FOR EXTENDED DETENTION AND PROCEEDING DOWNWARD TO THE FLOWLINE ELEVATION AT THE BOTTOM OF THE BASIN
IN COLUMN B ENTER THE AREA CORRESPONDING TO THE ELEVATION IN COLUMN A
ENTER THE ELEVATION OF EACH ROW OF HOLES BELOW THE ROW NUMBER
ENTER ELEVATION 9999.0 FOR ROWS NOT USED
RESULT IS DISPLAYED AT THE BOTTOM OF COLUMN K

Conical Method for Reservoir Volumes:

$$\text{Volume} = 1/3 * (\text{EL2} - \text{EL1}) * (\text{Area1} + \text{Area 2} + \text{Sqrt}(\text{Area 1} * \text{Area 2}))$$

WATER ELEVATION	AVERAGE AREA (SF)	AVERAGE VOL (CF)	Sum Vol (CF)	OUTFLOW RATE (CFS)						COMBINED OUTFLOW	DRAIN TIME (HOURS)
				ROW 1	ROW 2	ROW 3	ROW 4	ROW 5	ROW 6		
				949.00	950.00	951.00	952.00	9999.00	9999.00		
949.00	5	1	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
949.25	582	53	53	0.026	0.000	0.000	0.000	0.000	0.000	0.026	0.56
949.50	1159	211	264	0.037	0.000	0.000	0.000	0.000	0.000	0.037	1.58
949.75	1736	356	620	0.045	0.000	0.000	0.000	0.000	0.000	0.045	2.17
950.00	2313	499	1119	0.053	0.000	0.000	0.000	0.000	0.000	0.053	2.64
950.25	4075.25	780	1900	0.059	0.026	0.000	0.000	0.000	0.000	0.085	2.55
950.50	5837.5	1220	3120	0.064	0.037	0.000	0.000	0.000	0.000	0.101	3.34
950.75	7599.75	1658	4778	0.069	0.045	0.000	0.000	0.000	0.000	0.115	4.01
951.00	9362	2095	6873	0.074	0.053	0.000	0.000	0.000	0.000	0.127	4.59
951.25	11334.75	2557	9431	0.079	0.059	0.026	0.000	0.000	0.000	0.164	4.34
951.50	13307.5	3327	12758	0.083	0.064	0.037	0.000	0.000	0.000	0.185	5.01
951.75	15280.25	3535	16292	0.087	0.069	0.045	0.000	0.000	0.000	0.202	4.86
952.00	17253	4024	20316	0.091	0.074	0.053	0.000	0.000	0.000	0.218	5.13
952.25	19168.5	4505	24821	0.095	0.079	0.059	0.026	0.000	0.000	0.258	4.84
952.50	21084	5271	30092	0.098	0.083	0.064	0.037	0.000	0.000	0.283	5.18
952.75	22999.5	5454	35546	0.102	0.087	0.069	0.045	0.000	0.000	0.304	4.99
953.00	24915	5928	41473	0.105	0.091	0.074	0.053	0.000	0.000	0.323	5.10
953.25	26283.75	6335	47809	0.108	0.095	0.079	0.059	0.000	0.000	0.340	5.17
953.50	27652.5	6674	54482	0.111	0.098	0.083	0.064	0.000	0.000	0.357	5.19
953.75	29021.25	7255	61738	0.114	0.102	0.087	0.069	0.000	0.000	0.373	5.41
954.00	30390	7351	69089	0.117	0.105	0.091	0.074	0.000	0.000	0.388	5.27

TOTAL DRAIN TIME 76.7 hours

MAX. OUTFLOW RATE = 3.60 CFS

WATER QUALITY OUTLET STRUCTURE DISCHARGE COMPUTATIONS

****ENTER THE FOLLOWING INFORMATION****

PROJECT: Highland Meadows Detention As-Built
DATE: 6/14/2022

RISER PIPE DIAMETER: N/A INCHES
OUTLET PIPE DIA.: N/A INCHES

PERFORATION DIA: 1.5000 INCHES
HOLES PER ROW: 2
ORIFICE AREA: 3.5343 SQ. IN.
(TOTAL FOR ROW)
ROW SPACING: 12 INCHES
NUMBER OF ROWS: 4

FLOWLINE ELEVATION
AT BOTTOM OF BASIN: 949.00

MAXIMUM PONDING
ELEV. FOR
EXTENDED DETENTION: 957.80

IN COLUMN A, ENTER WATER ELEVATIONS AT 3" INCREMENTS BEGINNING WITH THE ELEVATION
ENTERED ABOVE FOR MAXIMUM PONDING ELEVATION FOR EXTENDED DETENTION
AND PROCEEDING DOWNWARD TO THE FLOWLINE ELEVATION AT THE BOTTOM OF THE BASIN
IN COLUMN B ENTER THE AREA CORRESPONDING TO THE ELEVATION IN COLUMN A
ENTER THE ELEVATION OF EACH ROW OF HOLES BELOW THE ROW NUMBER
ENTER ELEVATION 9999.0 FOR ROWS NOT USED
RESULT IS DISPLAYED AT THE BOTTOM OF COLUMN K

Conical Method for Reservoir Volumes:

$$\text{Volume} = 1/3 * (\text{EL2} - \text{EL1}) * (\text{Area1} + \text{Area 2} + \text{Sqrt}(\text{Area 1} * \text{Area 2}))$$

WATER ELEVATION	AVERAGE AREA (SF)	AVERAGE VOL (CF)	Sum Vol (CF)	OUTFLOW RATE (CFS)						COMBINED OUTFLOW	DRAIN TIME (HOURS)
				ROW 1	ROW 2	ROW 3	ROW 4	ROW 5	ROW 6		
				949.00	950.00	951.00	952.00	9999.00	9999.00		
949.00	5	1	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
949.25	582	53	53	0.059	0.000	0.000	0.000	0.000	0.000	0.059	0.25
949.50	1159	211	264	0.084	0.000	0.000	0.000	0.000	0.000	0.084	0.70
949.75	1736	356	620	0.102	0.000	0.000	0.000	0.000	0.000	0.102	0.97
950.00	2313	499	1119	0.118	0.000	0.000	0.000	0.000	0.000	0.118	1.17
950.25	4075.25	780	1900	0.132	0.059	0.000	0.000	0.000	0.000	0.191	1.13
950.50	5837.5	1220	3120	0.145	0.084	0.000	0.000	0.000	0.000	0.228	1.48
950.75	7599.75	1658	4778	0.156	0.102	0.000	0.000	0.000	0.000	0.259	1.78
951.00	9362	2095	6873	0.167	0.118	0.000	0.000	0.000	0.000	0.285	2.04
951.25	11334.75	2557	9431	0.177	0.132	0.059	0.000	0.000	0.000	0.368	1.93
951.50	13307.5	3327	12758	0.187	0.145	0.084	0.000	0.000	0.000	0.415	2.23
951.75	15280.25	3535	16292	0.196	0.156	0.102	0.000	0.000	0.000	0.455	2.16
952.00	17253	4024	20316	0.205	0.167	0.118	0.000	0.000	0.000	0.490	2.28
952.25	19168.5	4505	24821	0.213	0.177	0.132	0.059	0.000	0.000	0.582	2.15
952.50	21084	5271	30092	0.221	0.187	0.145	0.084	0.000	0.000	0.636	2.30
952.75	22999.5	5454	35546	0.229	0.196	0.156	0.102	0.000	0.000	0.684	2.22
953.00	24915	5928	41473	0.236	0.205	0.167	0.118	0.000	0.000	0.726	2.27
953.25	26283.75	6335	47809	0.244	0.213	0.177	0.132	0.000	0.000	0.766	2.30
953.50	27652.5	6674	54482	0.251	0.221	0.187	0.145	0.000	0.000	0.803	2.31
953.75	29021.25	7255	61738	0.258	0.229	0.196	0.156	0.000	0.000	0.839	2.40
954.00	30390	7351	69089	0.264	0.236	0.205	0.167	0.000	0.000	0.872	2.34

TOTAL DRAIN TIME **34.1** hours

MAX. OUTFLOW RATE = 8.09 CFS

Job File: F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Rain Dir: F:\PJJ HM AsBuilt\

=====
JOB TITLE
=====

Project Date: 11/10/2020
Project Engineer: Patrick Joyce
Project Title: Highland Meadows
Project Comments:

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



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S/N:

PondPack Ver:

Compute Time:

Date:



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S/N:

PondPack Ver:

Compute Time:

Date:



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OFFSITE DET..... 10 yr

Unit Hyd. Summary 7.49

Unit Hyd. (HYG output) 7.50

OFFSITE DET.....	100 yr	
	Unit Hyd. Summary	7.55
	Unit Hyd. (HYG output)	7.56
OFFSITE NON-DET	2	
	Unit Hyd. Summary	7.62
	Unit Hyd. (HYG output)	7.63
OFFSITE NON-DET	10 yr	
	Unit Hyd. Summary	7.67
	Unit Hyd. (HYG output)	7.68
OFFSITE NON-DET	100 yr	
	Unit Hyd. Summary	7.73
	Unit Hyd. (HYG output)	7.74

***** HYG ADDITION *****

OUTFALL.....	2	
	Node: Addition Summary	8.01

S/N:

PondPack Ver:

Compute Time:

Date:



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	Node: Addition Summary	8.12
OUTFALL.....	100 yr	
	Node: Addition Summary	8.23

***** TIME VS.ELEV *****

MAIN DET	OUT 2	
	Time-Elev	9.01
MAIN DET	OUT 10 yr	
	Time-Elev	9.11
MAIN DET	OUT 100 yr	
	Time-Elev	9.21

***** TIME VS.VOL *****

MAIN DET	OUT 2	
	Time vs. Volume	10.01
MAIN DET	OUT 10 yr	
	Time vs. Volume	10.11
MAIN DET	OUT 100 yr	
	Time vs. Volume	10.21

***** POND VOLUMES *****

MAIN DET.....	Vol: Elev-Area	11.01
---------------	----------------------	-------

***** OUTLET STRUCTURES *****

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

S/N:

PondPack Ver:

Compute Time:

Date:



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	Node: Pond Inflow Summary	13.04
MAIN DET	IN 10 yr	
	Node: Pond Inflow Summary	13.10
MAIN DET	IN 100 yr	

	Node: Pond Inflow Summary	13.17
MAIN DET	OUT 2	
	Pond Routing Summary	13.25
	Pond Routed HYG (total out)	13.26
MAIN DET	OUT 10 yr	
	Pond Routing Summary	13.36
	Pond Routed HYG (total out)	13.37
MAIN DET	OUT 100 yr	
	Pond Routing Summary	13.47
	Pond Routed HYG (total out)	13.48
ROUTE 10.....	2	
	Diverted Hydrograph	13.58
ROUTE 10.....	10 yr	
	Diverted Hydrograph	13.68
ROUTE 10.....	100 yr	
	Diverted Hydrograph	13.78

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Master Network Summary

Page 1.01

Name.... Watershed

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

MASTER DESIGN STORM SUMMARY

Network Storm Collection: SCS Lee's Summit

Return Event	Total Depth in	Rainfall Type	RNF ID
-----	-----	-----	-----
10 yr	5.6700	Synthetic Curve	Type II 24hr
100 yr	9.2000	Synthetic Curve	Type II 24hr
2	3.1000	Synthetic Curve	Type II 24hr

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Max							
Pond Storage		Return	HYG Vol		Qpeak	Qpeak	Max WSEL
Node ID	Type	Event	ac-ft	Trun	min	cfs	ft
ac-ft							
-----	----	-----	-----	--	-----	-----	-----
HIGHLAND MEADOWS	AREA	10	5.794		721.00	85.69	
HIGHLAND MEADOWS	AREA	100	11.017		721.00	158.96	
HIGHLAND MEADOWS	AREA	2	2.293		722.00	34.11	
HM UNDET	AREA	10	1.793		722.00	26.02	
HM UNDET	AREA	100	3.410		721.00	48.26	
HM UNDET	AREA	2	.710		723.00	10.43	
MAIN DET	IN POND	10	12.273		723.00	144.86	
MAIN DET	IN POND	100	24.403		723.00	282.70	
MAIN DET	IN POND	2	4.458		723.00	51.87	
MAIN DET 2.792	OUT POND	10	11.918		733.00	95.97	955.61
MAIN DET 4.826	OUT POND	100	23.996		733.00	194.83	957.79
MAIN DET 1.282	OUT POND	2	4.178		738.00	27.22	953.59
OFFSITE DET	AREA	10	5.334		732.00	54.51	
OFFSITE DET	AREA	100	11.021		732.00	112.38	
OFFSITE DET	AREA	2	1.783		732.00	16.99	

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Master Network Summary

Page 1.02

Name.... Watershed

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

MASTER NETWORK SUMMARY SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Max		Return	HYG Vol		Qpeak	Qpeak	Max WSEL
Pond Storage							
Node ID	Type	Event	ac-ft	Trun	min	cfs	ft
ac-ft							
-----	-----	-----	-----	--	-----	-----	-----

OFFSITE NON-DET	AREA	10	1.144		721.00	18.06	
OFFSITE NON-DET	AREA	100	2.365		720.00	36.75	
OFFSITE NON-DET	AREA	2	.382		722.00	5.83	
*OUTFALL	JCT	10	13.711		729.00	111.11	
*OUTFALL	JCT	100	27.406		730.00	221.30	
*OUTFALL	JCT	2	4.888		734.00	30.98	

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Executive Summary (Nodes) Page 2.01
Name.... Watershed Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

NETWORK SUMMARY -- NODES
(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File,ID = SCS Lee's Summit

Storm Tag Name = 2

Data Type, File, ID = Synthetic Storm Type II 24hr
Storm Frequency = 2 yr
Total Rainfall Depth= 3.1000 in
Duration Multiplier = 1
Resulting Duration = 3798.00 min
Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Node ID	Type	HYG Vol	Qpeak	Qpeak	Max WSEL
		ac-ft	Trun.	min	cfs
-----	-----	-----	-----	-----	-----
HIGHLAND MEADOWS	AREA	2.293		722.00	34.11
HM UNDET	AREA	.710		723.00	10.43
MAIN DET IN	POND	4.458		723.00	51.87
MAIN DET OUT	POND	4.178		738.00	27.22
OFFSITE DET	AREA	1.783		732.00	16.99

953.59

OFFSITE NON-DET	AREA	.382	722.00	5.83
Outfall OUTFALL	JCT	4.888	734.00	30.98

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Executive Summary (Links)

Page 2.02

Name.... Watershed

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

NETWORK SUMMARY -- LINKS

(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)

(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File,ID = SCS Lee's Summit

Storm Tag Name = 2

Data Type, File, ID = Synthetic Storm Type II 24hr

Storm Frequency = 2 yr

Total Rainfall Depth= 3.1000 in

Duration Multiplier = 1

Resulting Duration = 3798.00 min

Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Link ID	Type		HYG Vol ac-ft	Peak Time Trun. min	Peak Q cfs	End Points
ADDLINK 10	ADD	UN	1.783	732.00	16.99	OFFSITE DET
		DL	1.783	732.00	16.99	
		DN	4.458	723.00	51.87	MAIN DET IN
ADDLINK 20	ADD	UN	2.293	722.00	34.11	HIGHLAND MEADOWS
		DL	2.293	722.00	34.11	
		DN	4.458	723.00	51.87	MAIN DET IN
ADDLINK 30	ADD	UN	.710	723.00	10.43	HM UNDET
		DL	.710	723.00	10.43	
		DN	4.888	734.00	30.98	OUTFALL
ADDLINK 40	ADD	UN	.382	722.00	5.83	OFFSITE NON-DET
		DL	.382	722.00	5.83	
		DN	4.458	723.00	51.87	MAIN DET IN
ROUTE 10	PONDrt	UN	4.458	723.00	51.87	MAIN DET IN
ROUTE 10			4.178	738.00	27.22	MAIN DET OUT
		DL	4.178	738.00	27.22	
		DN	4.888	734.00	30.98	OUTFALL

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Network Calcs Sequence

Page 2.03

Name.... Watershed

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

NETWORK RUNOFF NODE SEQUENCE

Runoff Data		Apply to Node		Receiving Link	
SCS UH	HIGHLAND MEADOWS	Subarea	HIGHLAND MEADOWS	Add Hyd	HIGHLAND MEADOWS
SCS UH	HM UNDET	Subarea	HM UNDET	Add Hyd	HM UNDET
SCS UH	OFFSITE DET	Subarea	OFFSITE DET	Add Hyd	OFFSITE DET
SCS UH	OFFSITE NON-DET	Subarea	OFFSITE NON-DET	Add Hyd	OFFSITE NON-DET

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Network Calcs Sequence

Page 2.04

Name.... Watershed

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

NETWORK ROUTING SEQUENCE

Link Operation		UPstream Node		DNstream Node	
Add Hyd	ADDLINK 20	Subarea	HIGHLAND MEADOWS	Pond	MAIN DET IN
Add Hyd	ADDLINK 10	Subarea	OFFSITE DET	Pond	MAIN DET IN
Add Hyd	ADDLINK 40	Subarea	OFFSITE NON-DET	Pond	MAIN DET IN

POND ROUTE TOTAL OUTFLOW...

Total Pond Outflow	Pond	MAIN DET	IN	Outflow	MAIN DET	OUT
--------------------	------	----------	----	---------	----------	-----

SET POND ROUTING LINK TO TOTAL POND OUTFLOW...

Outlet	ROUTE 10	Outflow	MAIN DET	OUT	Jct	OUTFALL
--------	----------	---------	----------	-----	-----	---------

Add Hyd	ADDLINK 30	Subarea	HM UNDET	Jct	OUTFALL
---------	------------	---------	----------	-----	---------

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Executive Summary (Nodes)

Page 2.05

Name.... Watershed
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

NETWORK SUMMARY -- NODES
(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File,ID = SCS Lee's Summit

Storm Tag Name = 10 yr

Data Type, File, ID = Synthetic Storm Type II 24hr
Storm Frequency = 10 yr
Total Rainfall Depth= 5.6700 in
Duration Multiplier = 1
Resulting Duration = 3798.00 min
Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Node ID	Type	HYG Vol ac-ft	Trun.	Qpeak min	Qpeak cfs	Max WSEL ft
HIGHLAND MEADOWS	AREA	5.794		721.00	85.69	
HM UNDET	AREA	1.793		722.00	26.02	
MAIN DET IN	POND	12.273		723.00	144.86	
MAIN DET OUT	POND	11.918		733.00	95.97	955.61
OFFSITE DET	AREA	5.334		732.00	54.51	
OFFSITE NON-DET	AREA	1.144		721.00	18.06	
Outfall OUTFALL	JCT	13.711		729.00	111.11	

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Executive Summary (Links) Page 2.06
Name.... Watershed Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

NETWORK SUMMARY -- LINKS
(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)
(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File,ID = SCS Lee's Summit

Storm Tag Name = 10 yr

Data Type, File, ID = Synthetic Storm Type II 24hr
Storm Frequency = 10 yr
Total Rainfall Depth= 5.6700 in

Duration Multiplier = 1
 Resulting Duration = 3798.00 min
 Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Link ID	Type		HYG Vol ac-ft	Trun. min	Peak Time min	Peak Q cfs	End Points
ADDLINK 10	ADD	UN	5.334		732.00	54.51	OFFSITE DET
		DL	5.334		732.00	54.51	
		DN	12.273		723.00	144.86	MAIN DET IN
ADDLINK 20	ADD	UN	5.794		721.00	85.69	HIGHLAND MEADOWS
		DL	5.794		721.00	85.69	
		DN	12.273		723.00	144.86	MAIN DET IN
ADDLINK 30	ADD	UN	1.793		722.00	26.02	HM UNDET
		DL	1.793		722.00	26.02	
		DN	13.711		729.00	111.11	OUTFALL
ADDLINK 40	ADD	UN	1.144		721.00	18.06	OFFSITE NON-DET
		DL	1.144		721.00	18.06	
		DN	12.273		723.00	144.86	MAIN DET IN
ROUTE 10	PONDrt	UN	12.273		723.00	144.86	MAIN DET IN
ROUTE 10			11.918		733.00	95.97	MAIN DET OUT
		DL	11.918		733.00	95.97	
		DN	13.711		729.00	111.11	OUTFALL

S/N: C21F01C070CE Bowers Engineering Inc
 PondPack Ver: Compute Time: Date:



Type.... Executive Summary (Nodes) Page 2.07
 Name.... Watershed Event: 100 yr
 File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
 Storm... Type II 24hr Tag: 100 yr

NETWORK SUMMARY -- NODES
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File,ID = SCS Lee's Summit

Storm Tag Name = 100 yr

 Data Type, File, ID = Synthetic Storm Type II 24hr
 Storm Frequency = 100 yr
 Total Rainfall Depth= 9.2000 in
 Duration Multiplier = 1
 Resulting Duration = 3798.00 min

Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Node ID	Type	HYG Vol ac-ft	Trun.	Qpeak min	Qpeak cfs	Max WSEL ft
HIGHLAND MEADOWS	AREA	11.017		721.00	158.96	
HM UNDET	AREA	3.410		721.00	48.26	
MAIN DET IN	POND	24.403		723.00	282.70	
MAIN DET OUT	POND	23.996		733.00	194.83	957.79
OFFSITE DET	AREA	11.021		732.00	112.38	
OFFSITE NON-DET	AREA	2.365		720.00	36.75	
Outfall OUTFALL	JCT	27.406		730.00	221.30	

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Executive Summary (Links)

Page 2.08

Name.... Watershed

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

NETWORK SUMMARY -- LINKS

(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)

(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File,ID = SCS Lee's Summit

Storm Tag Name = 100 yr

Data Type, File, ID = Synthetic Storm Type II 24hr

Storm Frequency = 100 yr

Total Rainfall Depth= 9.2000 in

Duration Multiplier = 1

Resulting Duration = 3798.00 min

Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Link ID	Type		HYG Vol ac-ft	Trun.	Peak Time min	Peak Q cfs	End Points
ADDLINK 10	ADD	UN	11.021		732.00	112.38	OFFSITE DET
		DL	11.021		732.00	112.38	
		DN	24.403		723.00	282.70	MAIN DET IN
ADDLINK 20	ADD	UN	11.017		721.00	158.96	HIGHLAND MEADOWS
		DL	11.017		721.00	158.96	
		DN	24.403		723.00	282.70	MAIN DET IN
ADDLINK 30	ADD	UN	3.410		721.00	48.26	HM UNDET
		DL	3.410		721.00	48.26	

		DN	27.406	730.00	221.30	OUTFALL	
ADDLINK 40	ADD	UN	2.365	720.00	36.75	OFFSITE NON-DET	
		DL	2.365	720.00	36.75		
		DN	24.403	723.00	282.70	MAIN DET	IN
ROUTE 10	PONDrt	UN	24.403	723.00	282.70	MAIN DET	IN
ROUTE 10			23.996	733.00	194.83	MAIN DET	OUT
		DL	23.996	733.00	194.83		
		DN	27.406	730.00	221.30	OUTFALL	

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Design Storms
Name.... SCS Lee's Summit

Page 3.01

File.... F:\PJJ HM AsBuilt\
Title... Project Date: 11/10/2020
 Project Engineer: Patrick Joyce
 Project Title: Highland Meadows
 Project Comments:

DESIGN STORMS SUMMARY

Design Storm File,ID = SCS Lee's Summit

Storm Tag Name = 10 yr

Data Type, File, ID = Synthetic Storm Type II 24hr
Storm Frequency = 10 yr
Total Rainfall Depth= 5.6700 in
Duration Multiplier = 1
Resulting Duration = 3798.00 min
Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Storm Tag Name = 100 yr

Data Type, File, ID = Synthetic Storm Type II 24hr
Storm Frequency = 100 yr
Total Rainfall Depth= 9.2000 in
Duration Multiplier = 1
Resulting Duration = 3798.00 min
Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Storm Tag Name = 2

Data Type, File, ID = Synthetic Storm Type II 24hr
Storm Frequency = 2 yr
Total Rainfall Depth= 3.1000 in
Duration Multiplier = 1
Resulting Duration = 3798.00 min
Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Design Storms
Name.... SCS Lee's Summit
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 10 yr

Page 3.02
Event: 10 yr

DESIGN STORMS SUMMARY

Design Storm File,ID = SCS Lee's Summit

Storm Tag Name = 10 yr

Data Type, File, ID = Synthetic Storm Type II 24hr
Storm Frequency = 10 yr
Total Rainfall Depth= 5.6700 in
Duration Multiplier = 1
Resulting Duration = 3798.00 min
Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Storm Tag Name = 100 yr

Data Type, File, ID = Synthetic Storm Type II 24hr
Storm Frequency = 100 yr
Total Rainfall Depth= 9.2000 in
Duration Multiplier = 1
Resulting Duration = 3798.00 min
Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

Storm Tag Name = 2

Data Type, File, ID = Synthetic Storm Type II 24hr
Storm Frequency = 2 yr
Total Rainfall Depth= 3.1000 in
Duration Multiplier = 1
Resulting Duration = 3798.00 min
Resulting Start Time= .00 min Step= 6.00 min End= 3798.00 min

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Synthetic Curve

Page 4.01

Name.... Type II 24hr Tag: 2

File.... F:\PJJ HM AsBuilt\

CUMULATIVE RAINFALL FRACTIONS					
Output Time increment = 6.00 min					
Time min	Time on left represents time for first value in each row.				
.00	.000	.001	.002	.003	.004
30.00	.005	.006	.007	.008	.009
60.00	.011	.012	.013	.014	.015
90.00	.016	.017	.018	.020	.021
120.00	.022	.023	.024	.026	.027
150.00	.028	.029	.031	.032	.033
180.00	.035	.036	.037	.038	.040
210.00	.041	.042	.044	.045	.047
240.00	.048	.049	.051	.052	.054
270.00	.055	.057	.058	.060	.061
300.00	.063	.065	.066	.068	.070
330.00	.071	.073	.075	.076	.078
360.00	.080	.082	.084	.085	.087
390.00	.089	.091	.093	.095	.097
420.00	.099	.101	.103	.105	.107
450.00	.109	.111	.113	.116	.118
480.00	.120	.122	.125	.127	.130
510.00	.132	.135	.138	.141	.144
540.00	.147	.150	.153	.157	.160
570.00	.163	.166	.170	.173	.177
600.00	.181	.185	.189	.194	.199
630.00	.204	.209	.215	.221	.228
660.00	.235	.243	.251	.261	.271
690.00	.283	.307	.354	.431	.568
720.00	.663	.682	.699	.713	.725
750.00	.735	.743	.751	.759	.766
780.00	.772	.778	.784	.789	.794
810.00	.799	.804	.808	.812	.816
840.00	.820	.824	.827	.831	.834
870.00	.838	.841	.844	.847	.850
900.00	.854	.856	.859	.862	.865
930.00	.868	.870	.873	.875	.878
960.00	.880	.882	.885	.887	.889
990.00	.891	.893	.895	.898	.900
1020.00	.902	.904	.906	.908	.910
1050.00	.912	.914	.915	.917	.919
1080.00	.921	.923	.925	.926	.928
1110.00	.930	.931	.933	.935	.936
1140.00	.938	.939	.941	.942	.944

1170.00	.945	.947	.948	.949	.951
1200.00	.952	.953	.955	.956	.957
1230.00	.958	.960	.961	.962	.964
1260.00	.965	.966	.967	.968	.970
1290.00	.971	.972	.973	.975	.976

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 4.02

Name.... Type II 24hr Tag: 2

File.... F:\PJJ HM AsBuilt\

CUMULATIVE RAINFALL FRACTIONS

Time min	Output Time increment = 6.00 min Time on left represents time for first value in each row.				
1320.00	.977	.978	.979	.981	.982
1350.00	.983	.984	.985	.986	.988
1380.00	.989	.990	.991	.992	.993
1410.00	.994	.996	.997	.998	.999
1440.00	1.000	1.000	1.000	1.000	1.000
1470.00	1.000	1.000	1.000	1.000	1.000
1500.00	1.000	1.000	1.000	1.000	1.000
1530.00	1.000	1.000	1.000	1.000	1.000
1560.00	1.000	1.000	1.000	1.000	1.000
1590.00	1.000	1.000	1.000	1.000	1.000
1620.00	1.000	1.000	1.000	1.000	1.000
1650.00	1.000	1.000	1.000	1.000	1.000
1680.00	1.000	1.000	1.000	1.000	1.000
1710.00	1.000	1.000	1.000	1.000	1.000
1740.00	1.000	1.000	1.000	1.000	1.000
1770.00	1.000	1.000	1.000	1.000	1.000
1800.00	1.000	1.000	1.000	1.000	1.000
1830.00	1.000	1.000	1.000	1.000	1.000
1860.00	1.000	1.000	1.000	1.000	1.000
1890.00	1.000	1.000	1.000	1.000	1.000
1920.00	1.000	1.000	1.000	1.000	1.000
1950.00	1.000	1.000	1.000	1.000	1.000
1980.00	1.000	1.000	1.000	1.000	1.000
2010.00	1.000	1.000	1.000	1.000	1.000
2040.00	1.000	1.000	1.000	1.000	1.000
2070.00	1.000	1.000	1.000	1.000	1.000
2100.00	1.000	1.000	1.000	1.000	1.000
2130.00	1.000	1.000	1.000	1.000	1.000
2160.00	1.000	1.000	1.000	1.000	1.000
2190.00	1.000	1.000	1.000	1.000	1.000
2220.00	1.000	1.000	1.000	1.000	1.000
2250.00	1.000	1.000	1.000	1.000	1.000
2280.00	1.000	1.000	1.000	1.000	1.000

2310.00	1.000	1.000	1.000	1.000	1.000
2340.00	1.000	1.000	1.000	1.000	1.000
2370.00	1.000	1.000	1.000	1.000	1.000
2400.00	1.000	1.000	1.000	1.000	1.000
2430.00	1.000	1.000	1.000	1.000	1.000
2460.00	1.000	1.000	1.000	1.000	1.000
2490.00	1.000	1.000	1.000	1.000	1.000
2520.00	1.000	1.000	1.000	1.000	1.000
2550.00	1.000	1.000	1.000	1.000	1.000
2580.00	1.000	1.000	1.000	1.000	1.000
2610.00	1.000	1.000	1.000	1.000	1.000
2640.00	1.000	1.000	1.000	1.000	1.000

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 4.03

Name.... Type II 24hr Tag: 2

File.... F:\PJJ HM AsBuilt\

Time min	CUMULATIVE RAINFALL FRACTIONS				
	Output Time increment = 6.00 min				
	Time on left represents time for first value in each row.				
2670.00	1.000	1.000	1.000	1.000	1.000
2700.00	1.000	1.000	1.000	1.000	1.000
2730.00	1.000	1.000	1.000	1.000	1.000
2760.00	1.000	1.000	1.000	1.000	1.000
2790.00	1.000	1.000	1.000	1.000	1.000
2820.00	1.000	1.000	1.000	1.000	1.000
2850.00	1.000	1.000	1.000	1.000	1.000
2880.00	1.000	1.000	1.000	1.000	1.000
2910.00	1.000	1.000	1.000	1.000	1.000
2940.00	1.000	1.000	1.000	1.000	1.000
2970.00	1.000	1.000	1.000	1.000	1.000
3000.00	1.000	1.000	1.000	1.000	1.000
3030.00	1.000	1.000	1.000	1.000	1.000
3060.00	1.000	1.000	1.000	1.000	1.000
3090.00	1.000	1.000	1.000	1.000	1.000
3120.00	1.000	1.000	1.000	1.000	1.000
3150.00	1.000	1.000	1.000	1.000	1.000
3180.00	1.000	1.000	1.000	1.000	1.000
3210.00	1.000	1.000	1.000	1.000	1.000
3240.00	1.000	1.000	1.000	1.000	1.000
3270.00	1.000	1.000	1.000	1.000	1.000
3300.00	1.000	1.000	1.000	1.000	1.000
3330.00	1.000	1.000	1.000	1.000	1.000
3360.00	1.000	1.000	1.000	1.000	1.000
3390.00	1.000	1.000	1.000	1.000	1.000
3420.00	1.000	1.000	1.000	1.000	1.000

3450.00	1.000	1.000	1.000	1.000	1.000
3480.00	1.000	1.000	1.000	1.000	1.000
3510.00	1.000	1.000	1.000	1.000	1.000
3540.00	1.000	1.000	1.000	1.000	1.000
3570.00	1.000	1.000	1.000	1.000	1.000
3600.00	1.000	1.000	1.000	1.000	1.000
3630.00	1.000	1.000	1.000	1.000	1.000
3660.00	1.000	1.000	1.000	1.000	1.000
3690.00	1.000	1.000	1.000	1.000	1.000
3720.00	1.000	1.000	1.000	1.000	1.000
3750.00	1.000	1.000	1.000	1.000	1.000
3780.00	1.000	1.000	1.000	1.000	1.000

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

Page 4.04

Name.... Type II 24hr Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 2

Time min	CUMULATIVE RAINFALL DEPTHS (in)				
	Output Time increment = 6.00 min				
	Time on left represents time for first value in each row.				
.00	.0000	.0031	.0063	.0095	.0126
30.00	.0159	.0192	.0225	.0258	.0292
60.00	.0326	.0360	.0394	.0429	.0464
90.00	.0500	.0536	.0572	.0608	.0645
120.00	.0682	.0720	.0757	.0795	.0833
150.00	.0872	.0911	.0950	.0990	.1030
180.00	.1070	.1110	.1151	.1192	.1233
210.00	.1275	.1317	.1359	.1402	.1445
240.00	.1488	.1532	.1576	.1621	.1667
270.00	.1713	.1760	.1807	.1855	.1904
300.00	.1953	.2003	.2053	.2105	.2156
330.00	.2209	.2262	.2315	.2370	.2425
360.00	.2480	.2536	.2593	.2650	.2708
390.00	.2767	.2826	.2886	.2946	.3007
420.00	.3069	.3131	.3194	.3258	.3322
450.00	.3387	.3452	.3518	.3585	.3652
480.00	.3720	.3790	.3863	.3939	.4018
510.00	.4100	.4185	.4273	.4365	.4459
540.00	.4557	.4656	.4755	.4855	.4954
570.00	.5053	.5155	.5261	.5373	.5489
600.00	.5611	.5739	.5874	.6016	.6167
630.00	.6324	.6491	.6671	.6863	.7068
660.00	.7285	.7523	.7791	.8089	.8416
690.00	.8773	.9512	1.0985	1.3354	1.7604
720.00	2.0553	2.1141	2.1658	2.2104	2.2480

750.00	2.2785	2.3047	2.3292	2.3522	2.3735
780.00	2.3932	2.4117	2.4293	2.4460	2.4619
810.00	2.4769	2.4912	2.5048	2.5178	2.5302
840.00	2.5420	2.5534	2.5645	2.5754	2.5861
870.00	2.5967	2.6069	2.6170	2.6268	2.6365
900.00	2.6459	2.6551	2.6640	2.6728	2.6813
930.00	2.6897	2.6977	2.7056	2.7133	2.7208
960.00	2.7280	2.7351	2.7421	2.7490	2.7559
990.00	2.7627	2.7694	2.7760	2.7826	2.7890
1020.00	2.7954	2.8017	2.8080	2.8141	2.8202
1050.00	2.8262	2.8322	2.8380	2.8438	2.8495
1080.00	2.8551	2.8606	2.8661	2.8715	2.8768
1110.00	2.8820	2.8872	2.8923	2.8973	2.9022
1140.00	2.9070	2.9118	2.9165	2.9211	2.9256
1170.00	2.9301	2.9345	2.9388	2.9430	2.9471
1200.00	2.9512	2.9552	2.9592	2.9632	2.9672
1230.00	2.9712	2.9751	2.9790	2.9829	2.9869
1260.00	2.9907	2.9946	2.9984	3.0023	3.0061
1290.00	3.0099	3.0137	3.0175	3.0212	3.0250

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

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Name.... Type II 24hr Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 2

CUMULATIVE RAINFALL DEPTHS (in)					
Output Time increment = 6.00 min					
Time min	Time on left represents time for first value in each row.				
1320.00	3.0287	3.0324	3.0361	3.0398	3.0435
1350.00	3.0471	3.0507	3.0544	3.0580	3.0616
1380.00	3.0651	3.0687	3.0722	3.0758	3.0793
1410.00	3.0828	3.0862	3.0897	3.0931	3.0966
1440.00	3.1000	3.1000	3.1000	3.1000	3.1000
1470.00	3.1000	3.1000	3.1000	3.1000	3.1000
1500.00	3.1000	3.1000	3.1000	3.1000	3.1000
1530.00	3.1000	3.1000	3.1000	3.1000	3.1000
1560.00	3.1000	3.1000	3.1000	3.1000	3.1000
1590.00	3.1000	3.1000	3.1000	3.1000	3.1000
1620.00	3.1000	3.1000	3.1000	3.1000	3.1000
1650.00	3.1000	3.1000	3.1000	3.1000	3.1000
1680.00	3.1000	3.1000	3.1000	3.1000	3.1000
1710.00	3.1000	3.1000	3.1000	3.1000	3.1000
1740.00	3.1000	3.1000	3.1000	3.1000	3.1000
1770.00	3.1000	3.1000	3.1000	3.1000	3.1000
1800.00	3.1000	3.1000	3.1000	3.1000	3.1000
1830.00	3.1000	3.1000	3.1000	3.1000	3.1000

1860.00	3.1000	3.1000	3.1000	3.1000	3.1000
1890.00	3.1000	3.1000	3.1000	3.1000	3.1000
1920.00	3.1000	3.1000	3.1000	3.1000	3.1000
1950.00	3.1000	3.1000	3.1000	3.1000	3.1000
1980.00	3.1000	3.1000	3.1000	3.1000	3.1000
2010.00	3.1000	3.1000	3.1000	3.1000	3.1000
2040.00	3.1000	3.1000	3.1000	3.1000	3.1000
2070.00	3.1000	3.1000	3.1000	3.1000	3.1000
2100.00	3.1000	3.1000	3.1000	3.1000	3.1000
2130.00	3.1000	3.1000	3.1000	3.1000	3.1000
2160.00	3.1000	3.1000	3.1000	3.1000	3.1000
2190.00	3.1000	3.1000	3.1000	3.1000	3.1000
2220.00	3.1000	3.1000	3.1000	3.1000	3.1000
2250.00	3.1000	3.1000	3.1000	3.1000	3.1000
2280.00	3.1000	3.1000	3.1000	3.1000	3.1000
2310.00	3.1000	3.1000	3.1000	3.1000	3.1000
2340.00	3.1000	3.1000	3.1000	3.1000	3.1000
2370.00	3.1000	3.1000	3.1000	3.1000	3.1000
2400.00	3.1000	3.1000	3.1000	3.1000	3.1000
2430.00	3.1000	3.1000	3.1000	3.1000	3.1000
2460.00	3.1000	3.1000	3.1000	3.1000	3.1000
2490.00	3.1000	3.1000	3.1000	3.1000	3.1000
2520.00	3.1000	3.1000	3.1000	3.1000	3.1000
2550.00	3.1000	3.1000	3.1000	3.1000	3.1000
2580.00	3.1000	3.1000	3.1000	3.1000	3.1000
2610.00	3.1000	3.1000	3.1000	3.1000	3.1000
2640.00	3.1000	3.1000	3.1000	3.1000	3.1000

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Synthetic Cumulative Depth

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Name.... Type II 24hr Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 2

Time min	CUMULATIVE RAINFALL DEPTHS (in)				
	Output Time increment = 6.00 min				
	Time on left represents time for first value in each row.				
2670.00	3.1000	3.1000	3.1000	3.1000	3.1000
2700.00	3.1000	3.1000	3.1000	3.1000	3.1000
2730.00	3.1000	3.1000	3.1000	3.1000	3.1000
2760.00	3.1000	3.1000	3.1000	3.1000	3.1000
2790.00	3.1000	3.1000	3.1000	3.1000	3.1000
2820.00	3.1000	3.1000	3.1000	3.1000	3.1000
2850.00	3.1000	3.1000	3.1000	3.1000	3.1000
2880.00	3.1000	3.1000	3.1000	3.1000	3.1000
2910.00	3.1000	3.1000	3.1000	3.1000	3.1000
2940.00	3.1000	3.1000	3.1000	3.1000	3.1000

2970.00	3.1000	3.1000	3.1000	3.1000	3.1000
3000.00	3.1000	3.1000	3.1000	3.1000	3.1000
3030.00	3.1000	3.1000	3.1000	3.1000	3.1000
3060.00	3.1000	3.1000	3.1000	3.1000	3.1000
3090.00	3.1000	3.1000	3.1000	3.1000	3.1000
3120.00	3.1000	3.1000	3.1000	3.1000	3.1000
3150.00	3.1000	3.1000	3.1000	3.1000	3.1000
3180.00	3.1000	3.1000	3.1000	3.1000	3.1000
3210.00	3.1000	3.1000	3.1000	3.1000	3.1000
3240.00	3.1000	3.1000	3.1000	3.1000	3.1000
3270.00	3.1000	3.1000	3.1000	3.1000	3.1000
3300.00	3.1000	3.1000	3.1000	3.1000	3.1000
3330.00	3.1000	3.1000	3.1000	3.1000	3.1000
3360.00	3.1000	3.1000	3.1000	3.1000	3.1000
3390.00	3.1000	3.1000	3.1000	3.1000	3.1000
3420.00	3.1000	3.1000	3.1000	3.1000	3.1000
3450.00	3.1000	3.1000	3.1000	3.1000	3.1000
3480.00	3.1000	3.1000	3.1000	3.1000	3.1000
3510.00	3.1000	3.1000	3.1000	3.1000	3.1000
3540.00	3.1000	3.1000	3.1000	3.1000	3.1000
3570.00	3.1000	3.1000	3.1000	3.1000	3.1000
3600.00	3.1000	3.1000	3.1000	3.1000	3.1000
3630.00	3.1000	3.1000	3.1000	3.1000	3.1000
3660.00	3.1000	3.1000	3.1000	3.1000	3.1000
3690.00	3.1000	3.1000	3.1000	3.1000	3.1000
3720.00	3.1000	3.1000	3.1000	3.1000	3.1000
3750.00	3.1000	3.1000	3.1000	3.1000	3.1000
3780.00	3.1000	3.1000	3.1000	3.1000	3.1000

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

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Name.... Type II 24hr Tag: 10 yr

File.... F:\PJJ HM AsBuilt\

CUMULATIVE RAINFALL FRACTIONS					
Output Time increment = 6.00 min					
Time min	Time on left represents time for first value in each row.				
.00	.000	.001	.002	.003	.004
30.00	.005	.006	.007	.008	.009
60.00	.011	.012	.013	.014	.015
90.00	.016	.017	.018	.020	.021
120.00	.022	.023	.024	.026	.027
150.00	.028	.029	.031	.032	.033
180.00	.035	.036	.037	.038	.040
210.00	.041	.042	.044	.045	.047
240.00	.048	.049	.051	.052	.054
270.00	.055	.057	.058	.060	.061

300.00	.063	.065	.066	.068	.070
330.00	.071	.073	.075	.076	.078
360.00	.080	.082	.084	.085	.087
390.00	.089	.091	.093	.095	.097
420.00	.099	.101	.103	.105	.107
450.00	.109	.111	.113	.116	.118
480.00	.120	.122	.125	.127	.130
510.00	.132	.135	.138	.141	.144
540.00	.147	.150	.153	.157	.160
570.00	.163	.166	.170	.173	.177
600.00	.181	.185	.189	.194	.199
630.00	.204	.209	.215	.221	.228
660.00	.235	.243	.251	.261	.271
690.00	.283	.307	.354	.431	.568
720.00	.663	.682	.699	.713	.725
750.00	.735	.743	.751	.759	.766
780.00	.772	.778	.784	.789	.794
810.00	.799	.804	.808	.812	.816
840.00	.820	.824	.827	.831	.834
870.00	.838	.841	.844	.847	.850
900.00	.854	.856	.859	.862	.865
930.00	.868	.870	.873	.875	.878
960.00	.880	.882	.885	.887	.889
990.00	.891	.893	.895	.898	.900
1020.00	.902	.904	.906	.908	.910
1050.00	.912	.914	.915	.917	.919
1080.00	.921	.923	.925	.926	.928
1110.00	.930	.931	.933	.935	.936
1140.00	.938	.939	.941	.942	.944
1170.00	.945	.947	.948	.949	.951
1200.00	.952	.953	.955	.956	.957
1230.00	.958	.960	.961	.962	.964
1260.00	.965	.966	.967	.968	.970
1290.00	.971	.972	.973	.975	.976

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Synthetic Curve

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Name.... Type II 24hr Tag: 10 yr

File.... F:\PJJ HM AsBuilt\

CUMULATIVE RAINFALL FRACTIONS					
Output Time increment = 6.00 min					
Time min	Time on left represents time for first value in each row.				
1320.00	.977	.978	.979	.981	.982
1350.00	.983	.984	.985	.986	.988
1380.00	.989	.990	.991	.992	.993
1410.00	.994	.996	.997	.998	.999

1440.00	1.000	1.000	1.000	1.000	1.000
1470.00	1.000	1.000	1.000	1.000	1.000
1500.00	1.000	1.000	1.000	1.000	1.000
1530.00	1.000	1.000	1.000	1.000	1.000
1560.00	1.000	1.000	1.000	1.000	1.000
1590.00	1.000	1.000	1.000	1.000	1.000
1620.00	1.000	1.000	1.000	1.000	1.000
1650.00	1.000	1.000	1.000	1.000	1.000
1680.00	1.000	1.000	1.000	1.000	1.000
1710.00	1.000	1.000	1.000	1.000	1.000
1740.00	1.000	1.000	1.000	1.000	1.000
1770.00	1.000	1.000	1.000	1.000	1.000
1800.00	1.000	1.000	1.000	1.000	1.000
1830.00	1.000	1.000	1.000	1.000	1.000
1860.00	1.000	1.000	1.000	1.000	1.000
1890.00	1.000	1.000	1.000	1.000	1.000
1920.00	1.000	1.000	1.000	1.000	1.000
1950.00	1.000	1.000	1.000	1.000	1.000
1980.00	1.000	1.000	1.000	1.000	1.000
2010.00	1.000	1.000	1.000	1.000	1.000
2040.00	1.000	1.000	1.000	1.000	1.000
2070.00	1.000	1.000	1.000	1.000	1.000
2100.00	1.000	1.000	1.000	1.000	1.000
2130.00	1.000	1.000	1.000	1.000	1.000
2160.00	1.000	1.000	1.000	1.000	1.000
2190.00	1.000	1.000	1.000	1.000	1.000
2220.00	1.000	1.000	1.000	1.000	1.000
2250.00	1.000	1.000	1.000	1.000	1.000
2280.00	1.000	1.000	1.000	1.000	1.000
2310.00	1.000	1.000	1.000	1.000	1.000
2340.00	1.000	1.000	1.000	1.000	1.000
2370.00	1.000	1.000	1.000	1.000	1.000
2400.00	1.000	1.000	1.000	1.000	1.000
2430.00	1.000	1.000	1.000	1.000	1.000
2460.00	1.000	1.000	1.000	1.000	1.000
2490.00	1.000	1.000	1.000	1.000	1.000
2520.00	1.000	1.000	1.000	1.000	1.000
2550.00	1.000	1.000	1.000	1.000	1.000
2580.00	1.000	1.000	1.000	1.000	1.000
2610.00	1.000	1.000	1.000	1.000	1.000
2640.00	1.000	1.000	1.000	1.000	1.000

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Synthetic Curve

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Name.... Type II 24hr Tag: 10 yr

File.... F:\PJJ HM AsBuilt\

CUMULATIVE RAINFALL FRACTIONS

Time min	Output Time increment = 6.00 min Time on left represents time for first value in each row.				
2670.00	1.000	1.000	1.000	1.000	1.000
2700.00	1.000	1.000	1.000	1.000	1.000
2730.00	1.000	1.000	1.000	1.000	1.000
2760.00	1.000	1.000	1.000	1.000	1.000
2790.00	1.000	1.000	1.000	1.000	1.000
2820.00	1.000	1.000	1.000	1.000	1.000
2850.00	1.000	1.000	1.000	1.000	1.000
2880.00	1.000	1.000	1.000	1.000	1.000
2910.00	1.000	1.000	1.000	1.000	1.000
2940.00	1.000	1.000	1.000	1.000	1.000
2970.00	1.000	1.000	1.000	1.000	1.000
3000.00	1.000	1.000	1.000	1.000	1.000
3030.00	1.000	1.000	1.000	1.000	1.000
3060.00	1.000	1.000	1.000	1.000	1.000
3090.00	1.000	1.000	1.000	1.000	1.000
3120.00	1.000	1.000	1.000	1.000	1.000
3150.00	1.000	1.000	1.000	1.000	1.000
3180.00	1.000	1.000	1.000	1.000	1.000
3210.00	1.000	1.000	1.000	1.000	1.000
3240.00	1.000	1.000	1.000	1.000	1.000
3270.00	1.000	1.000	1.000	1.000	1.000
3300.00	1.000	1.000	1.000	1.000	1.000
3330.00	1.000	1.000	1.000	1.000	1.000
3360.00	1.000	1.000	1.000	1.000	1.000
3390.00	1.000	1.000	1.000	1.000	1.000
3420.00	1.000	1.000	1.000	1.000	1.000
3450.00	1.000	1.000	1.000	1.000	1.000
3480.00	1.000	1.000	1.000	1.000	1.000
3510.00	1.000	1.000	1.000	1.000	1.000
3540.00	1.000	1.000	1.000	1.000	1.000
3570.00	1.000	1.000	1.000	1.000	1.000
3600.00	1.000	1.000	1.000	1.000	1.000
3630.00	1.000	1.000	1.000	1.000	1.000
3660.00	1.000	1.000	1.000	1.000	1.000
3690.00	1.000	1.000	1.000	1.000	1.000
3720.00	1.000	1.000	1.000	1.000	1.000
3750.00	1.000	1.000	1.000	1.000	1.000
3780.00	1.000	1.000	1.000	1.000	1.000

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Synthetic Cumulative Depth
Name.... Type II 24hr Tag: 10 yr
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 10 yr

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Event: 10 yr

CUMULATIVE RAINFALL DEPTHS (in)						
Output Time increment = 6.00 min						
Time min	Time on left represents time for first value in each row.					
.00	.0000	.0057	.0115	.0173	.0231	
30.00	.0291	.0350	.0411	.0472	.0534	
60.00	.0595	.0658	.0721	.0785	.0849	
90.00	.0915	.0980	.1046	.1112	.1180	
120.00	.1247	.1316	.1385	.1454	.1524	
150.00	.1595	.1666	.1738	.1810	.1883	
180.00	.1956	.2030	.2105	.2180	.2256	
210.00	.2332	.2409	.2486	.2564	.2643	
240.00	.2722	.2802	.2883	.2965	.3048	
270.00	.3133	.3218	.3305	.3393	.3482	
300.00	.3572	.3663	.3756	.3849	.3944	
330.00	.4040	.4137	.4235	.4334	.4435	
360.00	.4536	.4639	.4742	.4847	.4953	
390.00	.5060	.5169	.5278	.5389	.5500	
420.00	.5613	.5727	.5842	.5959	.6076	
450.00	.6194	.6314	.6435	.6557	.6680	
480.00	.6804	.6932	.7065	.7204	.7348	
510.00	.7499	.7655	.7816	.7983	.8156	
540.00	.8335	.8516	.8698	.8879	.9061	
570.00	.9242	.9428	.9623	.9827	1.0040	
600.00	1.0263	1.0496	1.0744	1.1004	1.1279	
630.00	1.1567	1.1873	1.2202	1.2553	1.2928	
660.00	1.3325	1.3760	1.4250	1.4794	1.5393	
690.00	1.6046	1.7398	2.0092	2.4426	3.2198	
720.00	3.7592	3.8667	3.9613	4.0429	4.1117	
750.00	4.1675	4.2153	4.2602	4.3022	4.3412	
780.00	4.3772	4.4110	4.4432	4.4739	4.5029	
810.00	4.5303	4.5564	4.5814	4.6052	4.6279	
840.00	4.6494	4.6702	4.6906	4.7106	4.7301	
870.00	4.7494	4.7681	4.7866	4.8045	4.8222	
900.00	4.8393	4.8562	4.8726	4.8886	4.9042	
930.00	4.9195	4.9343	4.9487	4.9627	4.9764	
960.00	4.9896	5.0026	5.0154	5.0281	5.0406	
990.00	5.0530	5.0653	5.0774	5.0894	5.1012	
1020.00	5.1129	5.1245	5.1359	5.1472	5.1583	
1050.00	5.1693	5.1801	5.1908	5.2014	5.2118	
1080.00	5.2221	5.2322	5.2422	5.2521	5.2618	
1110.00	5.2713	5.2808	5.2901	5.2992	5.3082	
1140.00	5.3170	5.3258	5.3343	5.3428	5.3511	
1170.00	5.3592	5.3672	5.3751	5.3828	5.3904	
1200.00	5.3978	5.4052	5.4125	5.4198	5.4271	
1230.00	5.4344	5.4416	5.4488	5.4559	5.4630	
1260.00	5.4701	5.4772	5.4843	5.4913	5.4983	
1290.00	5.5052	5.5121	5.5191	5.5259	5.5328	

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

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Name.... Type II 24hr Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 10 yr

Time min	CUMULATIVE RAINFALL DEPTHS (in)				
	Output Time increment = 6.00 min				
	Time on left represents time for first value in each row.				
1320.00	5.5396	5.5464	5.5531	5.5599	5.5666
1350.00	5.5733	5.5799	5.5865	5.5931	5.5997
1380.00	5.6062	5.6127	5.6192	5.6257	5.6321
1410.00	5.6385	5.6448	5.6512	5.6575	5.6638
1440.00	5.6700	5.6700	5.6700	5.6700	5.6700
1470.00	5.6700	5.6700	5.6700	5.6700	5.6700
1500.00	5.6700	5.6700	5.6700	5.6700	5.6700
1530.00	5.6700	5.6700	5.6700	5.6700	5.6700
1560.00	5.6700	5.6700	5.6700	5.6700	5.6700
1590.00	5.6700	5.6700	5.6700	5.6700	5.6700
1620.00	5.6700	5.6700	5.6700	5.6700	5.6700
1650.00	5.6700	5.6700	5.6700	5.6700	5.6700
1680.00	5.6700	5.6700	5.6700	5.6700	5.6700
1710.00	5.6700	5.6700	5.6700	5.6700	5.6700
1740.00	5.6700	5.6700	5.6700	5.6700	5.6700
1770.00	5.6700	5.6700	5.6700	5.6700	5.6700
1800.00	5.6700	5.6700	5.6700	5.6700	5.6700
1830.00	5.6700	5.6700	5.6700	5.6700	5.6700
1860.00	5.6700	5.6700	5.6700	5.6700	5.6700
1890.00	5.6700	5.6700	5.6700	5.6700	5.6700
1920.00	5.6700	5.6700	5.6700	5.6700	5.6700
1950.00	5.6700	5.6700	5.6700	5.6700	5.6700
1980.00	5.6700	5.6700	5.6700	5.6700	5.6700
2010.00	5.6700	5.6700	5.6700	5.6700	5.6700
2040.00	5.6700	5.6700	5.6700	5.6700	5.6700
2070.00	5.6700	5.6700	5.6700	5.6700	5.6700
2100.00	5.6700	5.6700	5.6700	5.6700	5.6700
2130.00	5.6700	5.6700	5.6700	5.6700	5.6700
2160.00	5.6700	5.6700	5.6700	5.6700	5.6700
2190.00	5.6700	5.6700	5.6700	5.6700	5.6700
2220.00	5.6700	5.6700	5.6700	5.6700	5.6700
2250.00	5.6700	5.6700	5.6700	5.6700	5.6700
2280.00	5.6700	5.6700	5.6700	5.6700	5.6700
2310.00	5.6700	5.6700	5.6700	5.6700	5.6700
2340.00	5.6700	5.6700	5.6700	5.6700	5.6700
2370.00	5.6700	5.6700	5.6700	5.6700	5.6700
2400.00	5.6700	5.6700	5.6700	5.6700	5.6700
2430.00	5.6700	5.6700	5.6700	5.6700	5.6700
2460.00	5.6700	5.6700	5.6700	5.6700	5.6700

2490.00	5.6700	5.6700	5.6700	5.6700	5.6700
2520.00	5.6700	5.6700	5.6700	5.6700	5.6700
2550.00	5.6700	5.6700	5.6700	5.6700	5.6700
2580.00	5.6700	5.6700	5.6700	5.6700	5.6700
2610.00	5.6700	5.6700	5.6700	5.6700	5.6700
2640.00	5.6700	5.6700	5.6700	5.6700	5.6700

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

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Name.... Type II 24hr Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 10 yr

CUMULATIVE RAINFALL DEPTHS (in)

Output Time increment = 6.00 min

Time on left represents time for first value in each row.

Time min					
2670.00	5.6700	5.6700	5.6700	5.6700	5.6700
2700.00	5.6700	5.6700	5.6700	5.6700	5.6700
2730.00	5.6700	5.6700	5.6700	5.6700	5.6700
2760.00	5.6700	5.6700	5.6700	5.6700	5.6700
2790.00	5.6700	5.6700	5.6700	5.6700	5.6700
2820.00	5.6700	5.6700	5.6700	5.6700	5.6700
2850.00	5.6700	5.6700	5.6700	5.6700	5.6700
2880.00	5.6700	5.6700	5.6700	5.6700	5.6700
2910.00	5.6700	5.6700	5.6700	5.6700	5.6700
2940.00	5.6700	5.6700	5.6700	5.6700	5.6700
2970.00	5.6700	5.6700	5.6700	5.6700	5.6700
3000.00	5.6700	5.6700	5.6700	5.6700	5.6700
3030.00	5.6700	5.6700	5.6700	5.6700	5.6700
3060.00	5.6700	5.6700	5.6700	5.6700	5.6700
3090.00	5.6700	5.6700	5.6700	5.6700	5.6700
3120.00	5.6700	5.6700	5.6700	5.6700	5.6700
3150.00	5.6700	5.6700	5.6700	5.6700	5.6700
3180.00	5.6700	5.6700	5.6700	5.6700	5.6700
3210.00	5.6700	5.6700	5.6700	5.6700	5.6700
3240.00	5.6700	5.6700	5.6700	5.6700	5.6700
3270.00	5.6700	5.6700	5.6700	5.6700	5.6700
3300.00	5.6700	5.6700	5.6700	5.6700	5.6700
3330.00	5.6700	5.6700	5.6700	5.6700	5.6700
3360.00	5.6700	5.6700	5.6700	5.6700	5.6700
3390.00	5.6700	5.6700	5.6700	5.6700	5.6700
3420.00	5.6700	5.6700	5.6700	5.6700	5.6700
3450.00	5.6700	5.6700	5.6700	5.6700	5.6700
3480.00	5.6700	5.6700	5.6700	5.6700	5.6700
3510.00	5.6700	5.6700	5.6700	5.6700	5.6700
3540.00	5.6700	5.6700	5.6700	5.6700	5.6700
3570.00	5.6700	5.6700	5.6700	5.6700	5.6700

3600.00	5.6700	5.6700	5.6700	5.6700	5.6700
3630.00	5.6700	5.6700	5.6700	5.6700	5.6700
3660.00	5.6700	5.6700	5.6700	5.6700	5.6700
3690.00	5.6700	5.6700	5.6700	5.6700	5.6700
3720.00	5.6700	5.6700	5.6700	5.6700	5.6700
3750.00	5.6700	5.6700	5.6700	5.6700	5.6700
3780.00	5.6700	5.6700	5.6700	5.6700	5.6700

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

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Name.... Type II 24hr

Tag: 100 yr

File.... F:\PJJ HM AsBuilt\

CUMULATIVE RAINFALL FRACTIONS

Time min	Output Time increment = 6.00 min Time on left represents time for first value in each row.				
.00	.000	.001	.002	.003	.004
30.00	.005	.006	.007	.008	.009
60.00	.011	.012	.013	.014	.015
90.00	.016	.017	.018	.020	.021
120.00	.022	.023	.024	.026	.027
150.00	.028	.029	.031	.032	.033
180.00	.035	.036	.037	.038	.040
210.00	.041	.042	.044	.045	.047
240.00	.048	.049	.051	.052	.054
270.00	.055	.057	.058	.060	.061
300.00	.063	.065	.066	.068	.070
330.00	.071	.073	.075	.076	.078
360.00	.080	.082	.084	.085	.087
390.00	.089	.091	.093	.095	.097
420.00	.099	.101	.103	.105	.107
450.00	.109	.111	.113	.116	.118
480.00	.120	.122	.125	.127	.130
510.00	.132	.135	.138	.141	.144
540.00	.147	.150	.153	.157	.160
570.00	.163	.166	.170	.173	.177
600.00	.181	.185	.189	.194	.199
630.00	.204	.209	.215	.221	.228
660.00	.235	.243	.251	.261	.271
690.00	.283	.307	.354	.431	.568
720.00	.663	.682	.699	.713	.725
750.00	.735	.743	.751	.759	.766
780.00	.772	.778	.784	.789	.794
810.00	.799	.804	.808	.812	.816
840.00	.820	.824	.827	.831	.834
870.00	.838	.841	.844	.847	.850
900.00	.854	.856	.859	.862	.865

930.00	.868	.870	.873	.875	.878
960.00	.880	.882	.885	.887	.889
990.00	.891	.893	.895	.898	.900
1020.00	.902	.904	.906	.908	.910
1050.00	.912	.914	.915	.917	.919
1080.00	.921	.923	.925	.926	.928
1110.00	.930	.931	.933	.935	.936
1140.00	.938	.939	.941	.942	.944
1170.00	.945	.947	.948	.949	.951
1200.00	.952	.953	.955	.956	.957
1230.00	.958	.960	.961	.962	.964
1260.00	.965	.966	.967	.968	.970
1290.00	.971	.972	.973	.975	.976

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Synthetic Curve

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Name.... Type II 24hr Tag: 100 yr

File.... F:\PJJ HM AsBuilt\

Time min	CUMULATIVE RAINFALL FRACTIONS				
	Output Time increment = 6.00 min				
	Time on left represents time for first value in each row.				
1320.00	.977	.978	.979	.981	.982
1350.00	.983	.984	.985	.986	.988
1380.00	.989	.990	.991	.992	.993
1410.00	.994	.996	.997	.998	.999
1440.00	1.000	1.000	1.000	1.000	1.000
1470.00	1.000	1.000	1.000	1.000	1.000
1500.00	1.000	1.000	1.000	1.000	1.000
1530.00	1.000	1.000	1.000	1.000	1.000
1560.00	1.000	1.000	1.000	1.000	1.000
1590.00	1.000	1.000	1.000	1.000	1.000
1620.00	1.000	1.000	1.000	1.000	1.000
1650.00	1.000	1.000	1.000	1.000	1.000
1680.00	1.000	1.000	1.000	1.000	1.000
1710.00	1.000	1.000	1.000	1.000	1.000
1740.00	1.000	1.000	1.000	1.000	1.000
1770.00	1.000	1.000	1.000	1.000	1.000
1800.00	1.000	1.000	1.000	1.000	1.000
1830.00	1.000	1.000	1.000	1.000	1.000
1860.00	1.000	1.000	1.000	1.000	1.000
1890.00	1.000	1.000	1.000	1.000	1.000
1920.00	1.000	1.000	1.000	1.000	1.000
1950.00	1.000	1.000	1.000	1.000	1.000
1980.00	1.000	1.000	1.000	1.000	1.000
2010.00	1.000	1.000	1.000	1.000	1.000
2040.00	1.000	1.000	1.000	1.000	1.000

2070.00	1.000	1.000	1.000	1.000	1.000
2100.00	1.000	1.000	1.000	1.000	1.000
2130.00	1.000	1.000	1.000	1.000	1.000
2160.00	1.000	1.000	1.000	1.000	1.000
2190.00	1.000	1.000	1.000	1.000	1.000
2220.00	1.000	1.000	1.000	1.000	1.000
2250.00	1.000	1.000	1.000	1.000	1.000
2280.00	1.000	1.000	1.000	1.000	1.000
2310.00	1.000	1.000	1.000	1.000	1.000
2340.00	1.000	1.000	1.000	1.000	1.000
2370.00	1.000	1.000	1.000	1.000	1.000
2400.00	1.000	1.000	1.000	1.000	1.000
2430.00	1.000	1.000	1.000	1.000	1.000
2460.00	1.000	1.000	1.000	1.000	1.000
2490.00	1.000	1.000	1.000	1.000	1.000
2520.00	1.000	1.000	1.000	1.000	1.000
2550.00	1.000	1.000	1.000	1.000	1.000
2580.00	1.000	1.000	1.000	1.000	1.000
2610.00	1.000	1.000	1.000	1.000	1.000
2640.00	1.000	1.000	1.000	1.000	1.000

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

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Name.... Type II 24hr Tag: 100 yr

File.... F:\PJJ HM AsBuilt\

Time min	CUMULATIVE RAINFALL FRACTIONS				
	Output Time increment = 6.00 min				
	Time on left represents time for first value in each row.				
2670.00	1.000	1.000	1.000	1.000	1.000
2700.00	1.000	1.000	1.000	1.000	1.000
2730.00	1.000	1.000	1.000	1.000	1.000
2760.00	1.000	1.000	1.000	1.000	1.000
2790.00	1.000	1.000	1.000	1.000	1.000
2820.00	1.000	1.000	1.000	1.000	1.000
2850.00	1.000	1.000	1.000	1.000	1.000
2880.00	1.000	1.000	1.000	1.000	1.000
2910.00	1.000	1.000	1.000	1.000	1.000
2940.00	1.000	1.000	1.000	1.000	1.000
2970.00	1.000	1.000	1.000	1.000	1.000
3000.00	1.000	1.000	1.000	1.000	1.000
3030.00	1.000	1.000	1.000	1.000	1.000
3060.00	1.000	1.000	1.000	1.000	1.000
3090.00	1.000	1.000	1.000	1.000	1.000
3120.00	1.000	1.000	1.000	1.000	1.000
3150.00	1.000	1.000	1.000	1.000	1.000
3180.00	1.000	1.000	1.000	1.000	1.000

3210.00	1.000	1.000	1.000	1.000	1.000
3240.00	1.000	1.000	1.000	1.000	1.000
3270.00	1.000	1.000	1.000	1.000	1.000
3300.00	1.000	1.000	1.000	1.000	1.000
3330.00	1.000	1.000	1.000	1.000	1.000
3360.00	1.000	1.000	1.000	1.000	1.000
3390.00	1.000	1.000	1.000	1.000	1.000
3420.00	1.000	1.000	1.000	1.000	1.000
3450.00	1.000	1.000	1.000	1.000	1.000
3480.00	1.000	1.000	1.000	1.000	1.000
3510.00	1.000	1.000	1.000	1.000	1.000
3540.00	1.000	1.000	1.000	1.000	1.000
3570.00	1.000	1.000	1.000	1.000	1.000
3600.00	1.000	1.000	1.000	1.000	1.000
3630.00	1.000	1.000	1.000	1.000	1.000
3660.00	1.000	1.000	1.000	1.000	1.000
3690.00	1.000	1.000	1.000	1.000	1.000
3720.00	1.000	1.000	1.000	1.000	1.000
3750.00	1.000	1.000	1.000	1.000	1.000
3780.00	1.000	1.000	1.000	1.000	

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Synthetic Cumulative Depth Page 4.16
Name.... Type II 24hr Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 100 yr

CUMULATIVE RAINFALL DEPTHS (in)						
Output Time increment = 6.00 min						
Time min	Time on left represents time for first value in each row.					
.00	.0000	.0093	.0186	.0281	.0375	
30.00	.0472	.0569	.0667	.0765	.0866	
60.00	.0966	.1068	.1170	.1274	.1378	
90.00	.1484	.1590	.1697	.1805	.1915	
120.00	.2024	.2135	.2247	.2360	.2473	
150.00	.2588	.2703	.2820	.2937	.3055	
180.00	.3174	.3295	.3415	.3537	.3660	
210.00	.3784	.3908	.4034	.4160	.4288	
240.00	.4416	.4546	.4677	.4811	.4946	
270.00	.5083	.5222	.5363	.5505	.5650	
300.00	.5796	.5944	.6094	.6246	.6400	
330.00	.6555	.6712	.6871	.7032	.7195	
360.00	.7360	.7527	.7695	.7865	.8037	
390.00	.8211	.8387	.8564	.8744	.8925	
420.00	.9108	.9293	.9480	.9668	.9859	
450.00	1.0051	1.0245	1.0441	1.0639	1.0839	
480.00	1.1040	1.1247	1.1463	1.1689	1.1923	

510.00	1.2167	1.2420	1.2682	1.2954	1.3234
540.00	1.3524	1.3818	1.4113	1.4407	1.4702
570.00	1.4996	1.5298	1.5614	1.5945	1.6291
600.00	1.6652	1.7031	1.7432	1.7855	1.8301
630.00	1.8768	1.9265	1.9798	2.0369	2.0976
660.00	2.1620	2.2327	2.3121	2.4005	2.4976
690.00	2.6036	2.8229	3.2601	3.9633	5.2243
720.00	6.0996	6.2740	6.4275	6.5600	6.6715
750.00	6.7620	6.8396	6.9125	6.9806	7.0439
780.00	7.1024	7.1572	7.2095	7.2592	7.3063
810.00	7.3508	7.3931	7.4336	7.4722	7.5090
840.00	7.5440	7.5778	7.6108	7.6433	7.6750
870.00	7.7062	7.7366	7.7665	7.7957	7.8243
900.00	7.8522	7.8795	7.9061	7.9321	7.9574
930.00	7.9822	8.0062	8.0297	8.0524	8.0746
960.00	8.0960	8.1171	8.1379	8.1585	8.1788
990.00	8.1989	8.2188	8.2385	8.2579	8.2771
1020.00	8.2961	8.3149	8.3334	8.3517	8.3697
1050.00	8.3875	8.4051	8.4225	8.4396	8.4565
1080.00	8.4732	8.4897	8.5059	8.5219	8.5376
1110.00	8.5531	8.5684	8.5835	8.5983	8.6129
1140.00	8.6273	8.6415	8.6554	8.6691	8.6825
1170.00	8.6957	8.7087	8.7215	8.7340	8.7463
1200.00	8.7584	8.7704	8.7822	8.7941	8.8059
1230.00	8.8176	8.8293	8.8410	8.8526	8.8642
1260.00	8.8757	8.8872	8.8986	8.9100	8.9213
1290.00	8.9326	8.9439	8.9551	8.9662	8.9774

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Synthetic Cumulative Depth

Page 4.17

Name.... Type II 24hr Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 100 yr

Time min	CUMULATIVE RAINFALL DEPTHS (in)				
	Output Time increment = 6.00 min				
	Time on left represents time for first value in each row.				
1320.00	8.9884	8.9994	9.0104	9.0213	9.0322
1350.00	9.0430	9.0538	9.0646	9.0752	9.0859
1380.00	9.0965	9.1071	9.1176	9.1281	9.1385
1410.00	9.1488	9.1592	9.1695	9.1797	9.1899
1440.00	9.2000	9.2000	9.2000	9.2000	9.2000
1470.00	9.2000	9.2000	9.2000	9.2000	9.2000
1500.00	9.2000	9.2000	9.2000	9.2000	9.2000
1530.00	9.2000	9.2000	9.2000	9.2000	9.2000
1560.00	9.2000	9.2000	9.2000	9.2000	9.2000
1590.00	9.2000	9.2000	9.2000	9.2000	9.2000

1620.00	9.2000	9.2000	9.2000	9.2000	9.2000
1650.00	9.2000	9.2000	9.2000	9.2000	9.2000
1680.00	9.2000	9.2000	9.2000	9.2000	9.2000
1710.00	9.2000	9.2000	9.2000	9.2000	9.2000
1740.00	9.2000	9.2000	9.2000	9.2000	9.2000
1770.00	9.2000	9.2000	9.2000	9.2000	9.2000
1800.00	9.2000	9.2000	9.2000	9.2000	9.2000
1830.00	9.2000	9.2000	9.2000	9.2000	9.2000
1860.00	9.2000	9.2000	9.2000	9.2000	9.2000
1890.00	9.2000	9.2000	9.2000	9.2000	9.2000
1920.00	9.2000	9.2000	9.2000	9.2000	9.2000
1950.00	9.2000	9.2000	9.2000	9.2000	9.2000
1980.00	9.2000	9.2000	9.2000	9.2000	9.2000
2010.00	9.2000	9.2000	9.2000	9.2000	9.2000
2040.00	9.2000	9.2000	9.2000	9.2000	9.2000
2070.00	9.2000	9.2000	9.2000	9.2000	9.2000
2100.00	9.2000	9.2000	9.2000	9.2000	9.2000
2130.00	9.2000	9.2000	9.2000	9.2000	9.2000
2160.00	9.2000	9.2000	9.2000	9.2000	9.2000
2190.00	9.2000	9.2000	9.2000	9.2000	9.2000
2220.00	9.2000	9.2000	9.2000	9.2000	9.2000
2250.00	9.2000	9.2000	9.2000	9.2000	9.2000
2280.00	9.2000	9.2000	9.2000	9.2000	9.2000
2310.00	9.2000	9.2000	9.2000	9.2000	9.2000
2340.00	9.2000	9.2000	9.2000	9.2000	9.2000
2370.00	9.2000	9.2000	9.2000	9.2000	9.2000
2400.00	9.2000	9.2000	9.2000	9.2000	9.2000
2430.00	9.2000	9.2000	9.2000	9.2000	9.2000
2460.00	9.2000	9.2000	9.2000	9.2000	9.2000
2490.00	9.2000	9.2000	9.2000	9.2000	9.2000
2520.00	9.2000	9.2000	9.2000	9.2000	9.2000
2550.00	9.2000	9.2000	9.2000	9.2000	9.2000
2580.00	9.2000	9.2000	9.2000	9.2000	9.2000
2610.00	9.2000	9.2000	9.2000	9.2000	9.2000
2640.00	9.2000	9.2000	9.2000	9.2000	9.2000

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Synthetic Cumulative Depth
Name.... Type II 24hr Tag: 100 yr
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 100 yr

Page 4.18
Event: 100 yr

CUMULATIVE RAINFALL DEPTHS (in)					
Output Time increment = 6.00 min					
Time min	Time on left represents time for first value in each row.				
2670.00	9.2000	9.2000	9.2000	9.2000	9.2000
2700.00	9.2000	9.2000	9.2000	9.2000	9.2000

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Page 5.01

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

```

.....
TIME OF CONCENTRATION CALCULATOR
.....

```

Segment #1: Tc: User Defined

Segment #1 Time: 13.90 min

=====
Total Tc: 13.90 min
=====

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Tc Calcs Page 5.02
Name.... HIGHLAND MEADOWS

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Tc Equations used...

==== User Defined =====

Tc = Value entered by user

Where: Tc = Time of concentration

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Tc Calcs Page 5.03
Name.... HM UNDET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

.....
TIME OF CONCENTRATION CALCULATOR
.....

Segment #1: Tc: User Defined

Segment #1 Time: 14.50 min

=====
Total Tc: 14.50 min
=====

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:

↑

Type.... Tc Calcs Page 5.04
Name.... HM UNDET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Tc Equations used...

==== User Defined =====

Tc = Value entered by user

Where: Tc = Time of concentration

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:

↑

Type.... Tc Calcs Page 5.05
Name.... OFFSITE DET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

.....
TIME OF CONCENTRATION CALCULATOR
.....

Segment #1: Tc: User Defined

Segment #1 Time: 30.00 min

=====
Total Tc: 30.00 min
=====

=====

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:

↑
Type.... Tc Calcs Page 5.06
Name.... OFFSITE DET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Tc Equations used...

==== User Defined =====

Tc = Value entered by user

Where: Tc = Time of concentration

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:

↑
Type.... Tc Calcs Page 5.07
Name.... OFFSITE NON-DET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

.....
TIME OF CONCENTRATION CALCULATOR
.....

Segment #1: Tc: User Defined

Segment #1 Time: 11.70 min

=====
Total Tc: 11.70 min
=====

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:

↑

Type.... Tc Calcs
Name.... OFFSITE NON-DET

Page 5.08

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Tc Equations used...

==== User Defined =====

Tc = Value entered by user

Where: Tc = Time of concentration

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Runoff CN-Area
Name.... HIGHLAND MEADOWS

Page 6.01

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RUNOFF CURVE NUMBER DATA

.....

Soil/Surface Description	CN	Area acres	Impervious Adjustment %C %UC	Adjusted CN
Higginsville	82	18.870		82.00

COMPOSITE AREA & WEIGHTED CN ---> 18.870 82.00 (82)

.....

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Runoff CN-Area
Name.... HM UNDET

Page 6.02

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RUNOFF CURVE NUMBER DATA

.....

Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
-----	---	-----	%C	%UC	-----
	82	5.840			82.00

COMPOSITE AREA & WEIGHTED CN ---> 5.840 82.00 (82)

.....

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Runoff CN-Area Page 6.03
Name.... OFFSITE DET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RUNOFF CURVE NUMBER DATA

.....

Soil/Surface Description	CN	Area acres	Impervious Adjustment		Adjusted CN
-----	---	-----	%C	%UC	-----
	74	22.000			74.00

COMPOSITE AREA & WEIGHTED CN ---> 22.000 74.00 (74)

.....

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Runoff CN-Area Page 6.04
Name.... OFFSITE NON-DET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RUNOFF CURVE NUMBER DATA

.....

```

-----
Soil/Surface Description      CN      Area      Impervious
                               acres      Adjustment
                               %C      %UC      Adjusted
                               -----      -----
                               74      4.720      74.00

```

```

COMPOSITE AREA & WEIGHTED CN --->      4.720      74.00 (74)
:.....:

```

```

S/N: C21F01C070CE    Bowers Engineering Inc
PondPack Ver:          Compute Time:          Date:

```

↑

```

Type.... Unit Hyd. Equations      Page 7.01
Name....
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

```

SCS UNIT HYDROGRAPH METHOD (Computational Notes)

DEFINITION OF TERMS: -----

```

At    = Total area (acres):  At = Ai+Ap
Ai    = Impervious area (acres)
Ap    = Pervious area (acres)
CNi   = Runoff curve number for impervious area
CNp   = Runoff curve number for pervious area
fLoss = f loss constant infiltration (depth/time)
gKs   = Saturated Hydraulic Conductivity (depth/time)
Md    = Volumetric Moisture Deficit
Psi   = Capillary Suction (length)
hK    = Horton Infiltration Decay Rate (time^-1)
fo    = Initial Infiltration Rate (depth/time)
fc    = Ultimate(capacity)Infiltration Rate (depth/time)
Ia    = Initial Abstraction (length)
dt    = Computational increment (duration of unit excess rainfall)
       Default dt is smallest value of 0.1333Tc, rtm, and th
       (Smallest dt is then adjusted to match up with Tp)
UDdt  = User specified override computational main time increment
       (only used if UDdt is => .1333Tc)
D(t)  = Point on distribution curve (fraction of P) for time step t

```

$K = 2 / (1 + (Tr/Tp))$: default $K = 0.75$: (for $Tr/Tp = 1.67$)
 K_s = Hydrograph shape factor
 = Unit Conversions * K :
 = $((1hr/3600sec) * (1ft/12in) * ((5280ft)**2/sq.mi)) * K$
 Default $K_s = 645.333 * 0.75 = 484$

 Lag = Lag time from center of excess runoff (dt) to T_p : $Lag = 0.6T_c$
 P = Total precipitation depth, inches
 $Pa(t)$ = Accumulated rainfall at time step t
 $Pi(t)$ = Incremental rainfall at time step t
 qp = Peak discharge (cfs) for 1in. runoff, for 1hr, for 1 sq.mi.
 = $(K_s * A * Q) / T_p$ (where $Q = 1in.$ runoff, $A=sq.mi.$)
 $Qu(t)$ = Unit hydrograph ordinate (cfs) at time step t
 $Q(t)$ = Final hydrograph ordinate (cfs) at time step t
 $Rai(t)$ = Accumulated runoff (inches) at time step t for impervious area
 $Rap(t)$ = Accumulated runoff (inches) at time step t for pervious area
 $Rii(t)$ = Incremental runoff (inches) at time step t for impervious area
 $Rip(t)$ = Incremental runoff (inches) at time step t for pervious area
 $R(t)$ = Incremental weighted total runoff (inches)
 Rtm = Time increment for rainfall table
 Si = S for impervious area: $Si = (1000/CNi) - 10$
 Sp = S for pervious area: $Sp = (1000/CNp) - 10$
 t = Time step (row) number
 T_c = Time of concentration
 T_b = Time (hrs) of entire unit hydrograph: $T_b = T_p + T_r$
 T_p = Time (hrs) to peak of a unit hydrograph: $T_p = (dt/2) + Lag$
 T_r = Time (hrs) of receding limb of unit hydrograph: $T_r = \text{ratio of } T_p$

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Equations

Page 7.02

Name....

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

SCS UNIT HYDROGRAPH METHOD (Computational Notes)

PRECIPITATION: -----

Column (1): Time for time step t

Column (2): $D(t)$ = Point on distribution curve for time step t

Column (3): $Pi(t) = Pa(t) - Pa(t-1)$: Col.(4) - Preceding Col.(4)

Column (4): $Pa(t) = D(t) \times P$: Col.(2) $\times P$

PERVIOUS AREA RUNOFF (using SCS Runoff CN Method) -----

Column (5): $Rap(t)$ = Accumulated pervious runoff for time step t

If $(Pa(t) \text{ is } \leq 0.2Sp)$ then use: $Rap(t) = 0.0$

If (Pa(t) is > 0.2Sp) then use:

$$\text{Rap}(t) = (\text{Col.}(4) - 0.2\text{Sp})^{**2} / (\text{Col.}(4) + 0.8\text{Sp})$$

Column (6): Rip(t) = Incremental pervious runoff for time step t

$$\text{Rip}(t) = \text{Rap}(t) - \text{Rap}(t-1)$$

Rip(t) = Col.(5) for current row - Col.(5) for preceding row.

IMPERVIOUS AREA RUNOFF -----

Column (7 & 8)... Did not specify to use impervious areas.

INCREMENTAL WEIGHTED RUNOFF: -----

Column (9): R(t) = (Ap/At) x Rip(t) + (Ai/At) x Rii(t)

$$\text{R}(t) = (\text{Ap}/\text{At}) \times \text{Col.}(6) + (\text{Ai}/\text{At}) \times \text{Col.}(8)$$

SCS UNIT HYDROGRAPH METHOD: -----

Column (10): Q(t) is computed with the SCS unit hydrograph method
using R() and Qu().

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 7.03

Name.... HIGHLAND MEADOWS Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 3798.00 min Rain Depth = 3.1000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HIGHLAND MEADOWS 2

Tc = 13.90 min

Drainage Area = 18.870 acres Runoff CN= 82

=====
Computational Time Increment = 1.853 min
Computed Peak Time = 722.80 min
Computed Peak Flow = 34.25 cfs

Time Increment for HYG File = 1.00 min
Peak Time, Interpolated Output = 722.00 min
Peak Flow, Interpolated Output = 34.11 cfs
=====

DRAINAGE AREA

ID:HIGHLAND MEADOWS

CN = 82
Area = 18.870 acres
S = 2.1951 in
0.2S = .4390 in

Cumulative Runoff

1.4581 in
2.293 ac-ft

HYG Volume... 2.293 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 13.900 min (ID: HIGHLAND MEADOWS)
Computational Incr, Tm = 1.853 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 92.29 cfs
Unit peak time Tp = 9.267 min
Unit receding limb, Tr = 37.067 min
Total unit time, Tb = 46.333 min

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.04

Name.... HIGHLAND MEADOWS Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 3798.00 min Rain Depth = 3.1000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HIGHLAND MEADOWS 2

Tc = 13.90 min

Drainage Area = 18.870 acres Runoff CN= 82

Calc.Increment= 1.853 min Out.Incr.= 1.00 min

HYG Volume = 2.293 ac-ft

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
535.00	.00	.00	.00	.00	.00	.00
540.00	.01	.01	.01	.01	.01	.01
545.00	.01	.02	.02	.02	.02	.02
550.00	.03	.03	.03	.03	.04	.04
555.00	.04	.04	.05	.05	.05	.05
560.00	.05	.06	.06	.06	.06	.06
565.00	.07	.07	.07	.07	.08	.08
570.00	.08	.08	.09	.09	.09	.09
575.00	.09	.10	.10	.10	.11	.11
580.00	.11	.11	.11	.12	.12	.12
585.00	.13	.13	.13	.14	.14	.14
590.00	.14	.15	.15	.16	.16	.16
595.00	.17	.17	.17	.18	.18	.18
600.00	.19	.19	.20	.20	.21	.21
605.00	.21	.22	.22	.23	.23	.23
610.00	.24	.25	.25	.26	.26	.26
615.00	.27	.28	.28	.29	.30	.30
620.00	.30	.31	.32	.33	.33	.33
625.00	.34	.35	.36	.36	.37	.37
630.00	.38	.39	.40	.41	.42	.42
635.00	.42	.43	.44	.45	.46	.46
640.00	.47	.49	.50	.51	.52	.52
645.00	.53	.54	.56	.57	.58	.58
650.00	.60	.61	.63	.64	.65	.65
655.00	.67	.68	.70	.71	.73	.73
660.00	.75	.76	.78	.80	.81	.81
665.00	.83	.85	.87	.90	.92	.92
670.00	.94	.97	1.00	1.03	1.05	1.05
675.00	1.08	1.12	1.15	1.18	1.22	1.22
680.00	1.25	1.29	1.32	1.36	1.40	1.40

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.05

Name.... HIGHLAND MEADOWS Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
685.00	1.44	1.48	1.52	1.56	1.60	

690.00	1.65	1.71	1.79	1.88	2.01
695.00	2.16	2.37	2.61	2.92	3.26
700.00	3.69	4.18	4.75	5.40	6.11
705.00	6.94	7.81	8.84	9.90	11.22
710.00	12.60	14.25	16.07	18.25	20.57
715.00	23.06	25.48	27.85	29.84	31.70
720.00	32.88	33.95	34.11	34.08	33.22
725.00	32.04	30.26	28.27	26.06	23.84
730.00	21.61	19.56	17.55	15.92	14.34
735.00	13.16	12.05	11.17	10.37	9.69
740.00	9.09	8.57	8.11	7.69	7.32
745.00	6.97	6.68	6.40	6.14	5.90
750.00	5.67	5.46	5.26	5.07	4.89
755.00	4.72	4.56	4.42	4.28	4.16
760.00	4.05	3.95	3.85	3.77	3.70
765.00	3.63	3.57	3.52	3.47	3.42
770.00	3.37	3.33	3.29	3.25	3.21
775.00	3.17	3.13	3.09	3.06	3.02
780.00	2.98	2.95	2.91	2.88	2.84
785.00	2.81	2.78	2.75	2.72	2.69
790.00	2.66	2.63	2.61	2.58	2.56
795.00	2.54	2.52	2.49	2.47	2.45
800.00	2.43	2.41	2.39	2.37	2.35
805.00	2.33	2.32	2.30	2.28	2.26
810.00	2.24	2.22	2.20	2.18	2.16
815.00	2.15	2.13	2.11	2.09	2.07
820.00	2.06	2.04	2.03	2.01	1.99
825.00	1.98	1.96	1.95	1.94	1.92
830.00	1.91	1.89	1.88	1.87	1.85
835.00	1.84	1.82	1.81	1.80	1.78
840.00	1.77	1.75	1.74	1.73	1.71
845.00	1.70	1.69	1.68	1.67	1.66
850.00	1.65	1.64	1.63	1.62	1.61
855.00	1.61	1.60	1.59	1.59	1.58
860.00	1.58	1.57	1.57	1.56	1.56
865.00	1.55	1.55	1.54	1.54	1.53
870.00	1.53	1.52	1.52	1.51	1.51
875.00	1.50	1.50	1.49	1.49	1.48
880.00	1.48	1.47	1.47	1.46	1.46
885.00	1.45	1.45	1.45	1.44	1.44
890.00	1.43	1.43	1.42	1.42	1.41
895.00	1.41	1.40	1.40	1.39	1.39
900.00	1.38	1.38	1.37	1.37	1.36
905.00	1.36	1.35	1.35	1.34	1.34

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)
Name.... HIGHLAND MEADOWS Tag: 2

Page 7.06
Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
910.00	1.33	1.33	1.33	1.32	1.31
915.00	1.31	1.31	1.30	1.30	1.29
920.00	1.29	1.28	1.28	1.27	1.27
925.00	1.26	1.26	1.25	1.25	1.24
930.00	1.24	1.23	1.23	1.22	1.22
935.00	1.21	1.21	1.20	1.20	1.19
940.00	1.19	1.18	1.18	1.17	1.17
945.00	1.16	1.16	1.15	1.15	1.14
950.00	1.14	1.13	1.13	1.12	1.12
955.00	1.11	1.11	1.10	1.10	1.09
960.00	1.09	1.08	1.08	1.07	1.07
965.00	1.06	1.06	1.05	1.05	1.05
970.00	1.04	1.04	1.04	1.03	1.03
975.00	1.03	1.03	1.02	1.02	1.02
980.00	1.02	1.02	1.01	1.01	1.01
985.00	1.01	1.01	1.00	1.00	1.00
990.00	1.00	1.00	1.00	.99	.99
995.00	.99	.99	.99	.99	.98
1000.00	.98	.98	.98	.98	.98
1005.00	.97	.97	.97	.97	.97
1010.00	.96	.96	.96	.96	.96
1015.00	.96	.95	.95	.95	.95
1020.00	.95	.95	.94	.94	.94
1025.00	.94	.94	.93	.93	.93
1030.00	.93	.93	.93	.92	.92
1035.00	.92	.92	.92	.92	.91
1040.00	.91	.91	.91	.91	.91
1045.00	.90	.90	.90	.90	.90
1050.00	.89	.89	.89	.89	.89
1055.00	.89	.88	.88	.88	.88
1060.00	.88	.87	.87	.87	.87
1065.00	.87	.87	.86	.86	.86
1070.00	.86	.86	.86	.85	.85
1075.00	.85	.85	.85	.84	.84
1080.00	.84	.84	.84	.84	.83
1085.00	.83	.83	.83	.83	.82
1090.00	.82	.82	.82	.82	.82
1095.00	.81	.81	.81	.81	.81
1100.00	.80	.80	.80	.80	.80
1105.00	.80	.79	.79	.79	.79
1110.00	.79	.78	.78	.78	.78
1115.00	.78	.78	.77	.77	.77
1120.00	.77	.77	.76	.76	.76

1125.00		.76	.76	.76	.75	.75
1130.00		.75	.75	.75	.74	.74

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.07
Name.... HIGHLAND MEADOWS Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
1135.00	.74	.74	.74	.74	.73	
1140.00	.73	.73	.73	.73	.72	
1145.00	.72	.72	.72	.72	.72	
1150.00	.71	.71	.71	.71	.71	
1155.00	.70	.70	.70	.70	.70	
1160.00	.70	.69	.69	.69	.69	
1165.00	.69	.68	.68	.68	.68	
1170.00	.68	.67	.67	.67	.67	
1175.00	.67	.67	.66	.66	.66	
1180.00	.66	.66	.65	.65	.65	
1185.00	.65	.65	.65	.64	.64	
1190.00	.64	.64	.64	.63	.63	
1195.00	.63	.63	.63	.62	.62	
1200.00	.62	.62	.62	.62	.61	
1205.00	.61	.61	.61	.61	.61	
1210.00	.61	.60	.60	.60	.60	
1215.00	.60	.60	.60	.60	.60	
1220.00	.60	.60	.60	.60	.60	
1225.00	.60	.60	.59	.59	.59	
1230.00	.59	.59	.59	.59	.59	
1235.00	.59	.59	.59	.59	.59	
1240.00	.59	.59	.59	.59	.59	
1245.00	.59	.59	.59	.59	.59	
1250.00	.59	.59	.59	.59	.59	
1255.00	.59	.58	.58	.58	.58	
1260.00	.58	.58	.58	.58	.58	
1265.00	.58	.58	.58	.58	.58	
1270.00	.58	.58	.58	.58	.58	
1275.00	.58	.58	.58	.58	.58	
1280.00	.58	.58	.58	.58	.58	
1285.00	.57	.57	.57	.57	.57	
1290.00	.57	.57	.57	.57	.57	
1295.00	.57	.57	.57	.57	.57	
1300.00	.57	.57	.57	.57	.57	
1305.00	.57	.57	.57	.57	.57	

1310.00		.57	.57	.57	.57	.56
1315.00		.56	.56	.56	.56	.56
1320.00		.56	.56	.56	.56	.56
1325.00		.56	.56	.56	.56	.56
1330.00		.56	.56	.56	.56	.56
1335.00		.56	.56	.56	.56	.56
1340.00		.56	.56	.56	.55	.55
1345.00		.55	.55	.55	.55	.55
1350.00		.55	.55	.55	.55	.55
1355.00		.55	.55	.55	.55	.55

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.08
Name.... HIGHLAND MEADOWS Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Time min	Output Time increment = 1.00 min					
	Time on left represents time for first value in each row.					
1360.00		.55	.55	.55	.55	.55
1365.00		.55	.55	.55	.55	.55
1370.00		.55	.54	.54	.54	.54
1375.00		.54	.54	.54	.54	.54
1380.00		.54	.54	.54	.54	.54
1385.00		.54	.54	.54	.54	.54
1390.00		.54	.54	.54	.54	.54
1395.00		.54	.54	.54	.54	.53
1400.00		.53	.53	.53	.53	.53
1405.00		.53	.53	.53	.53	.53
1410.00		.53	.53	.53	.53	.53
1415.00		.53	.53	.53	.53	.53
1420.00		.53	.53	.53	.53	.53
1425.00		.53	.53	.53	.52	.52
1430.00		.52	.52	.52	.52	.52
1435.00		.52	.52	.52	.52	.52
1440.00		.52	.52	.51	.50	.48
1445.00		.45	.42	.38	.34	.30
1450.00		.26	.22	.18	.15	.13
1455.00		.11	.09	.07	.06	.05
1460.00		.04	.04	.03	.03	.02
1465.00		.02	.01	.01	.01	.01
1470.00		.01	.01	.00	.00	.00
1475.00		.00	.00	.00	.00	.00

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. Summary

Name.... HIGHLAND MEADOWS Tag: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Page 7.09

Event: 10 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm

Duration = 3798.00 min Rain Depth = 5.6700 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HIGHLAND MEADOWS 10 yr

Tc = 13.90 min

Drainage Area = 18.870 acres Runoff CN= 82

=====
Computational Time Increment = 1.853 min
Computed Peak Time = 720.95 min
Computed Peak Flow = 85.71 cfs

Time Increment for HYG File = 1.00 min
Peak Time, Interpolated Output = 721.00 min
Peak Flow, Interpolated Output = 85.69 cfs
=====

DRAINAGE AREA

ID:HIGHLAND MEADOWS

CN = 82

Area = 18.870 acres

S = 2.1951 in

0.2S = .4390 in

Cumulative Runoff

3.6847 in

5.794 ac-ft

HYG Volume... 5.794 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 13.900 min (ID: HIGHLAND MEADOWS)

Computational Incr, Tm = 1.853 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)

K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp)))

Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 92.29 cfs
Unit peak time Tp = 9.267 min
Unit receding limb, Tr = 37.067 min
Total unit time, Tb = 46.333 min

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.10

Name.... HIGHLAND MEADOWS Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm

Duration = 3798.00 min Rain Depth = 5.6700 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HIGHLAND MEADOWS 10 yr

Tc = 13.90 min

Drainage Area = 18.870 acres Runoff CN= 82

Calc.Increment= 1.853 min Out.Incr.= 1.00 min

HYG Volume = 5.794 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
357.00	.00	.00	.00	.00	.00
362.00	.01	.01	.01	.01	.01
367.00	.02	.02	.02	.02	.03
372.00	.03	.03	.04	.04	.04
377.00	.04	.05	.05	.05	.06
382.00	.06	.06	.07	.07	.07
387.00	.07	.08	.08	.08	.09
392.00	.09	.09	.10	.10	.10
397.00	.11	.11	.11	.12	.12
402.00	.12	.13	.13	.13	.14
407.00	.14	.14	.15	.15	.15
412.00	.16	.16	.16	.17	.17
417.00	.17	.18	.18	.18	.19
422.00	.19	.19	.20	.20	.20
427.00	.21	.21	.21	.22	.22
432.00	.23	.23	.23	.24	.24
437.00	.24	.25	.25	.25	.26

442.00	.26	.26	.27	.27	.28
447.00	.28	.28	.29	.29	.29
452.00	.30	.30	.30	.31	.31
457.00	.32	.32	.32	.33	.33
462.00	.33	.34	.34	.35	.35
467.00	.35	.36	.36	.37	.37
472.00	.37	.38	.38	.38	.39
477.00	.39	.40	.40	.40	.41
482.00	.41	.42	.42	.42	.43
487.00	.43	.44	.44	.45	.45
492.00	.46	.47	.47	.48	.48
497.00	.49	.50	.51	.51	.52
502.00	.53	.53	.54	.55	.56

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.11

Name.... HIGHLAND MEADOWS Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
507.00	.56	.57	.58	.59	.60
512.00	.60	.61	.62	.63	.64
517.00	.64	.65	.66	.67	.68
522.00	.69	.70	.71	.71	.72
527.00	.73	.74	.75	.76	.77
532.00	.78	.79	.80	.81	.82
537.00	.83	.84	.85	.86	.87
542.00	.88	.89	.90	.91	.92
547.00	.93	.93	.94	.95	.96
552.00	.97	.97	.98	.99	1.00
557.00	1.00	1.01	1.01	1.02	1.03
562.00	1.03	1.04	1.04	1.05	1.06
567.00	1.06	1.07	1.07	1.08	1.08
572.00	1.09	1.10	1.10	1.11	1.12
577.00	1.12	1.13	1.14	1.15	1.16
582.00	1.17	1.18	1.20	1.21	1.22
587.00	1.24	1.25	1.27	1.28	1.29
592.00	1.31	1.33	1.34	1.36	1.37
597.00	1.39	1.41	1.42	1.44	1.46
602.00	1.47	1.49	1.51	1.53	1.55
607.00	1.56	1.58	1.60	1.62	1.64
612.00	1.67	1.69	1.71	1.73	1.76
617.00	1.78	1.81	1.83	1.86	1.88
622.00	1.91	1.93	1.96	1.98	2.01

627.00	2.04	2.06	2.09	2.12	2.14
632.00	2.17	2.20	2.23	2.26	2.29
637.00	2.32	2.35	2.39	2.42	2.46
642.00	2.50	2.54	2.58	2.61	2.66
647.00	2.70	2.74	2.78	2.83	2.87
652.00	2.92	2.96	3.01	3.05	3.10
657.00	3.15	3.19	3.24	3.29	3.34
662.00	3.39	3.45	3.50	3.56	3.62
667.00	3.69	3.75	3.82	3.90	3.98
672.00	4.07	4.16	4.25	4.34	4.44
677.00	4.54	4.64	4.75	4.85	4.96
682.00	5.07	5.18	5.30	5.41	5.53
687.00	5.65	5.77	5.89	6.04	6.20
692.00	6.44	6.71	7.13	7.58	8.27
697.00	9.00	9.97	11.03	12.35	13.83
702.00	15.53	17.45	19.51	21.85	24.28
707.00	27.09	29.96	33.41	36.98	41.13
712.00	45.66	50.97	56.55	62.46	68.04
717.00	73.41	77.69	81.63	83.81	85.69
722.00	85.38	84.59	81.89	78.48	73.74
727.00	68.57	62.94	57.37	51.82	46.76

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.12

Name.... HIGHLAND MEADOWS Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
732.00	41.83	37.82	33.96	31.08	28.36
737.00	26.22	24.26	22.61	21.14	19.86
742.00	18.74	17.72	16.84	16.00	15.30
747.00	14.61	14.01	13.43	12.90	12.39
752.00	11.91	11.47	11.05	10.66	10.28
757.00	9.95	9.62	9.35	9.09	8.86
762.00	8.64	8.45	8.28	8.13	8.00
767.00	7.87	7.75	7.64	7.53	7.43
772.00	7.34	7.24	7.15	7.06	6.97
777.00	6.88	6.80	6.72	6.63	6.55
782.00	6.47	6.39	6.31	6.24	6.17
787.00	6.09	6.03	5.96	5.90	5.84
792.00	5.78	5.72	5.67	5.62	5.57
797.00	5.52	5.47	5.42	5.37	5.33
802.00	5.28	5.24	5.19	5.15	5.11
807.00	5.06	5.02	4.98	4.93	4.89

812.00	4.84	4.80	4.76	4.72	4.68
817.00	4.64	4.60	4.56	4.52	4.49
822.00	4.45	4.41	4.38	4.35	4.31
827.00	4.28	4.25	4.21	4.18	4.15
832.00	4.12	4.09	4.06	4.02	3.99
837.00	3.96	3.93	3.90	3.87	3.84
842.00	3.81	3.78	3.75	3.72	3.69
847.00	3.67	3.64	3.62	3.60	3.58
852.00	3.56	3.54	3.52	3.51	3.49
857.00	3.48	3.46	3.45	3.44	3.43
862.00	3.41	3.40	3.39	3.38	3.37
867.00	3.36	3.34	3.33	3.32	3.31
872.00	3.30	3.29	3.28	3.27	3.26
877.00	3.25	3.23	3.22	3.21	3.20
882.00	3.19	3.18	3.17	3.16	3.15
887.00	3.14	3.13	3.12	3.11	3.09
892.00	3.08	3.07	3.06	3.05	3.04
897.00	3.03	3.02	3.01	3.00	2.99
902.00	2.98	2.96	2.95	2.94	2.93
907.00	2.92	2.91	2.90	2.89	2.88
912.00	2.87	2.86	2.85	2.83	2.82
917.00	2.81	2.80	2.79	2.78	2.77
922.00	2.76	2.75	2.74	2.73	2.71
927.00	2.70	2.69	2.68	2.67	2.66
932.00	2.65	2.64	2.63	2.62	2.61
937.00	2.59	2.58	2.57	2.56	2.55
942.00	2.54	2.53	2.52	2.51	2.50
947.00	2.48	2.47	2.46	2.45	2.44
952.00	2.43	2.42	2.41	2.40	2.38

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.13

Name.... HIGHLAND MEADOWS Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
957.00	2.37	2.36	2.35	2.34	2.33
962.00	2.32	2.31	2.30	2.29	2.28
967.00	2.27	2.26	2.25	2.24	2.24
972.00	2.23	2.22	2.22	2.21	2.21
977.00	2.20	2.20	2.19	2.19	2.18
982.00	2.18	2.17	2.17	2.17	2.16
987.00	2.16	2.15	2.15	2.15	2.14
992.00	2.14	2.13	2.13	2.13	2.12

997.00	2.12	2.11	2.11	2.11	2.10
1002.00	2.10	2.09	2.09	2.09	2.08
1007.00	2.08	2.08	2.07	2.07	2.06
1012.00	2.06	2.06	2.05	2.05	2.04
1017.00	2.04	2.04	2.03	2.03	2.02
1022.00	2.02	2.02	2.01	2.01	2.01
1027.00	2.00	2.00	1.99	1.99	1.99
1032.00	1.98	1.98	1.97	1.97	1.97
1037.00	1.96	1.96	1.95	1.95	1.95
1042.00	1.94	1.94	1.94	1.93	1.93
1047.00	1.92	1.92	1.92	1.91	1.91
1052.00	1.90	1.90	1.90	1.89	1.89
1057.00	1.88	1.88	1.88	1.87	1.87
1062.00	1.86	1.86	1.86	1.85	1.85
1067.00	1.85	1.84	1.84	1.83	1.83
1072.00	1.82	1.82	1.82	1.81	1.81
1077.00	1.81	1.80	1.80	1.79	1.79
1082.00	1.79	1.78	1.78	1.77	1.77
1087.00	1.77	1.76	1.76	1.75	1.75
1092.00	1.75	1.74	1.74	1.73	1.73
1097.00	1.73	1.72	1.72	1.71	1.71
1102.00	1.71	1.70	1.70	1.69	1.69
1107.00	1.69	1.68	1.68	1.67	1.67
1112.00	1.67	1.66	1.66	1.66	1.65
1117.00	1.65	1.64	1.64	1.63	1.63
1122.00	1.63	1.62	1.62	1.62	1.61
1127.00	1.61	1.60	1.60	1.59	1.59
1132.00	1.59	1.58	1.58	1.58	1.57
1137.00	1.57	1.56	1.56	1.56	1.55
1142.00	1.55	1.54	1.54	1.54	1.53
1147.00	1.53	1.52	1.52	1.52	1.51
1152.00	1.51	1.50	1.50	1.50	1.49
1157.00	1.49	1.48	1.48	1.48	1.47
1162.00	1.47	1.46	1.46	1.46	1.45
1167.00	1.45	1.44	1.44	1.44	1.43
1172.00	1.43	1.42	1.42	1.42	1.41
1177.00	1.41	1.40	1.40	1.39	1.39

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.14

Name.... HIGHLAND MEADOWS Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time	Output Time increment = 1.00 min
min	Time on left represents time for first value in each row.

1182.00	1.39	1.38	1.38	1.38	1.37
1187.00	1.37	1.36	1.36	1.36	1.35
1192.00	1.35	1.34	1.34	1.33	1.33
1197.00	1.33	1.32	1.32	1.32	1.31
1202.00	1.31	1.30	1.30	1.30	1.29
1207.00	1.29	1.29	1.28	1.28	1.28
1212.00	1.28	1.27	1.27	1.27	1.27
1217.00	1.27	1.27	1.27	1.27	1.26
1222.00	1.26	1.26	1.26	1.26	1.26
1227.00	1.26	1.26	1.26	1.26	1.26
1232.00	1.25	1.25	1.25	1.25	1.25
1237.00	1.25	1.25	1.25	1.25	1.25
1242.00	1.25	1.25	1.25	1.24	1.24
1247.00	1.24	1.24	1.24	1.24	1.24
1252.00	1.24	1.24	1.24	1.24	1.24
1257.00	1.24	1.23	1.23	1.23	1.23
1262.00	1.23	1.23	1.23	1.23	1.23
1267.00	1.23	1.23	1.23	1.23	1.22
1272.00	1.22	1.22	1.22	1.22	1.22
1277.00	1.22	1.22	1.22	1.22	1.22
1282.00	1.22	1.22	1.21	1.21	1.21
1287.00	1.21	1.21	1.21	1.21	1.21
1292.00	1.21	1.21	1.21	1.21	1.20
1297.00	1.20	1.20	1.20	1.20	1.20
1302.00	1.20	1.20	1.20	1.20	1.20
1307.00	1.20	1.20	1.19	1.19	1.19
1312.00	1.19	1.19	1.19	1.19	1.19
1317.00	1.19	1.19	1.19	1.19	1.19
1322.00	1.18	1.18	1.18	1.18	1.18
1327.00	1.18	1.18	1.18	1.18	1.18
1332.00	1.18	1.18	1.18	1.17	1.17
1337.00	1.17	1.17	1.17	1.17	1.17
1342.00	1.17	1.17	1.17	1.17	1.17
1347.00	1.16	1.16	1.16	1.16	1.16
1352.00	1.16	1.16	1.16	1.16	1.16
1357.00	1.16	1.16	1.16	1.15	1.15
1362.00	1.15	1.15	1.15	1.15	1.15
1367.00	1.15	1.15	1.15	1.15	1.15
1372.00	1.15	1.14	1.14	1.14	1.14
1377.00	1.14	1.14	1.14	1.14	1.14
1382.00	1.14	1.14	1.14	1.13	1.13
1387.00	1.13	1.13	1.13	1.13	1.13
1392.00	1.13	1.13	1.13	1.13	1.13
1397.00	1.13	1.12	1.12	1.12	1.12
1402.00	1.12	1.12	1.12	1.12	1.12

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... HIGHLAND MEADOWS Tag: 10 yr Event: 10 yr
 File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
 Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1407.00	1.12	1.12	1.12	1.12	1.11
1412.00	1.11	1.11	1.11	1.11	1.11
1417.00	1.11	1.11	1.11	1.11	1.11
1422.00	1.11	1.11	1.10	1.10	1.10
1427.00	1.10	1.10	1.10	1.10	1.10
1432.00	1.10	1.10	1.10	1.10	1.09
1437.00	1.09	1.09	1.09	1.09	1.08
1442.00	1.07	1.04	1.01	.95	.88
1447.00	.80	.71	.62	.54	.46
1452.00	.39	.32	.27	.22	.19
1457.00	.16	.13	.11	.09	.08
1462.00	.06	.05	.04	.04	.03
1467.00	.03	.02	.02	.01	.01
1472.00	.01	.01	.01	.01	.00
1477.00	.00	.00	.00	.00	.00

S/N: C21F01C070CE Bowers Engineering Inc
 PondPack Ver: Compute Time: Date:



Type.... Unit Hyd. Summary Page 7.16
 Name.... HIGHLAND MEADOWS Tag: 100 yr Event: 100 yr
 File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
 Storm... Type II 24hr Tag: 100 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm
 Duration = 3798.00 min Rain Depth = 9.2000 in
 Rain Dir = F:\PJJ HM AsBuilt\
 Rain File -ID = - Type II 24hr
 Unit Hyd Type = Default Curvilinear
 HYG Dir = F:\PJJ HM AsBuilt\
 HYG File - ID = - HIGHLAND MEADOWS 100 yr
 Tc = 13.90 min
 Drainage Area = 18.870 acres Runoff CN= 82

=====
 Computational Time Increment = 1.853 min
 Computed Peak Time = 720.95 min
 Computed Peak Flow = 159.02 cfs

Time Increment for HYG File = 1.00 min

Peak Time, Interpolated Output = 721.00 min
Peak Flow, Interpolated Output = 158.96 cfs
=====

DRAINAGE AREA

ID: HIGHLAND MEADOWS

CN = 82
Area = 18.870 acres
S = 2.1951 in
0.2S = .4390 in

Cumulative Runoff

7.0057 in
11.016 ac-ft

HYG Volume... 11.017 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, T_c = 13.900 min (ID: HIGHLAND MEADOWS)
Computational Incr, T_m = 1.853 min = 0.20000 T_p

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
 $K = 483.43/645.333$, $K = .7491$ (also, $K = 2/(1+(T_r/T_p))$)
Receding/Rising, T_r/T_p = 1.6698 (solved from $K = .7491$)

Unit peak, q_p = 92.29 cfs
Unit peak time T_p = 9.267 min
Unit receding limb, T_r = 37.067 min
Total unit time, T_b = 46.333 min

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.17

Name.... HIGHLAND MEADOWS Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 3798.00 min Rain Depth = 9.2000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HIGHLAND MEADOWS 100 yr

Tc = 13.90 min
Drainage Area = 18.870 acres Runoff CN= 82
Calc.Increment= 1.853 min Out.Incr.= 1.00 min
HYG Volume = 11.017 ac-ft

HYDROGRAPH ORDINATES (cfs)					
Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
243.00	.00	.00	.00	.00	.00
248.00	.01	.01	.01	.01	.02
253.00	.02	.03	.03	.03	.04
258.00	.04	.05	.05	.06	.06
263.00	.07	.07	.08	.08	.09
268.00	.09	.10	.10	.11	.11
273.00	.12	.12	.13	.13	.14
278.00	.14	.15	.15	.16	.16
283.00	.17	.17	.18	.19	.19
288.00	.20	.20	.21	.21	.22
293.00	.22	.23	.24	.24	.25
298.00	.25	.26	.26	.27	.27
303.00	.28	.29	.29	.30	.30
308.00	.31	.32	.32	.33	.33
313.00	.34	.34	.35	.36	.36
318.00	.37	.37	.38	.39	.39
323.00	.40	.40	.41	.42	.42
328.00	.43	.44	.44	.45	.45
333.00	.46	.47	.47	.48	.49
338.00	.49	.50	.50	.51	.52
343.00	.52	.53	.54	.54	.55
348.00	.56	.56	.57	.57	.58
353.00	.59	.59	.60	.61	.61
358.00	.62	.63	.63	.64	.65
363.00	.65	.66	.67	.67	.68
368.00	.69	.69	.70	.71	.71
373.00	.72	.73	.73	.74	.75
378.00	.75	.76	.77	.77	.78
383.00	.79	.79	.80	.81	.82
388.00	.82	.83	.84	.84	.85

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:

Type.... Unit Hyd. (HYG output)

Page 7.18

Name.... HIGHLAND MEADOWS Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time	Output Time increment = 1.00 min
------	----------------------------------

min	Time on left represents time for first value in each row.				
393.00	.86	.86	.87	.88	.88
398.00	.89	.90	.91	.91	.92
403.00	.93	.93	.94	.95	.96
408.00	.96	.97	.98	.98	.99
413.00	1.00	1.01	1.01	1.02	1.03
418.00	1.03	1.04	1.05	1.06	1.06
423.00	1.07	1.08	1.09	1.09	1.10
428.00	1.11	1.11	1.12	1.13	1.14
433.00	1.14	1.15	1.16	1.17	1.17
438.00	1.18	1.19	1.20	1.20	1.21
443.00	1.22	1.23	1.23	1.24	1.25
448.00	1.25	1.26	1.27	1.28	1.28
453.00	1.29	1.30	1.31	1.31	1.32
458.00	1.33	1.34	1.35	1.35	1.36
463.00	1.37	1.38	1.38	1.39	1.40
468.00	1.41	1.41	1.42	1.43	1.44
473.00	1.44	1.45	1.46	1.47	1.47
478.00	1.48	1.49	1.50	1.51	1.51
483.00	1.52	1.53	1.54	1.55	1.56
488.00	1.57	1.58	1.59	1.61	1.62
493.00	1.64	1.65	1.67	1.68	1.70
498.00	1.71	1.73	1.75	1.77	1.78
503.00	1.80	1.82	1.84	1.86	1.88
508.00	1.89	1.91	1.93	1.95	1.97
513.00	1.99	2.01	2.03	2.05	2.07
518.00	2.09	2.11	2.13	2.15	2.17
523.00	2.19	2.21	2.23	2.25	2.28
528.00	2.30	2.32	2.34	2.36	2.38
533.00	2.40	2.42	2.45	2.47	2.49
538.00	2.51	2.54	2.56	2.58	2.60
543.00	2.62	2.64	2.66	2.68	2.70
548.00	2.72	2.74	2.76	2.77	2.79
553.00	2.80	2.81	2.82	2.84	2.85
558.00	2.86	2.87	2.88	2.89	2.90
563.00	2.91	2.92	2.92	2.93	2.94
568.00	2.95	2.96	2.97	2.98	2.98
573.00	2.99	3.01	3.02	3.03	3.05
578.00	3.06	3.08	3.10	3.12	3.14
583.00	3.17	3.19	3.22	3.25	3.28
588.00	3.31	3.34	3.37	3.41	3.44
593.00	3.47	3.51	3.54	3.58	3.61
598.00	3.65	3.68	3.72	3.75	3.79
603.00	3.83	3.86	3.90	3.94	3.98
608.00	4.02	4.07	4.11	4.16	4.20
613.00	4.25	4.30	4.35	4.40	4.45

S/N: C21F01C070CE

Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.19

Name.... HIGHLAND MEADOWS Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
618.00	4.50	4.55	4.61	4.66	4.71
623.00	4.76	4.82	4.87	4.93	4.98
628.00	5.04	5.09	5.15	5.21	5.26
633.00	5.32	5.38	5.44	5.51	5.57
638.00	5.64	5.71	5.78	5.86	5.94
643.00	6.02	6.10	6.18	6.27	6.35
648.00	6.44	6.53	6.62	6.71	6.80
653.00	6.89	6.98	7.08	7.17	7.27
658.00	7.36	7.46	7.55	7.66	7.76
663.00	7.86	7.97	8.09	8.22	8.35
668.00	8.49	8.63	8.78	8.94	9.12
673.00	9.30	9.48	9.67	9.87	10.07
678.00	10.28	10.49	10.71	10.92	11.14
683.00	11.36	11.59	11.82	12.05	12.28
688.00	12.51	12.75	13.03	13.36	13.84
693.00	14.38	15.24	16.16	17.57	19.06
698.00	21.02	23.18	25.82	28.80	32.19
703.00	35.99	40.06	44.60	49.32	54.69
708.00	60.18	66.65	73.32	80.98	89.28
713.00	98.93	109.02	119.62	129.48	138.89
718.00	146.19	152.81	156.17	158.96	157.77
723.00	155.72	150.27	143.59	134.60	124.88
728.00	114.42	104.11	93.89	84.60	75.57
733.00	68.24	61.19	55.91	50.94	47.03
738.00	43.45	40.43	37.76	35.42	33.39
743.00	31.53	29.93	28.40	27.13	25.88
748.00	24.80	23.75	22.79	21.87	21.02
753.00	20.22	19.47	18.77	18.10	17.50
758.00	16.92	16.44	15.97	15.57	15.18
763.00	14.84	14.54	14.27	14.03	13.81
768.00	13.60	13.39	13.21	13.03	12.86
773.00	12.69	12.52	12.36	12.21	12.05
778.00	11.90	11.75	11.61	11.46	11.32
783.00	11.18	11.04	10.91	10.78	10.65
788.00	10.53	10.42	10.30	10.20	10.09
793.00	9.99	9.90	9.80	9.72	9.63
798.00	9.54	9.46	9.38	9.30	9.22
803.00	9.14	9.06	8.98	8.90	8.82
808.00	8.75	8.67	8.59	8.52	8.44
813.00	8.37	8.29	8.22	8.15	8.08

818.00	8.01	7.94	7.87	7.81	7.74
823.00	7.68	7.62	7.56	7.50	7.44
828.00	7.39	7.33	7.27	7.22	7.16
833.00	7.11	7.05	7.00	6.94	6.89
838.00	6.83	6.78	6.72	6.67	6.61

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.20

Name.... HIGHLAND MEADOWS Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
843.00	6.56	6.51	6.46	6.41	6.37
848.00	6.33	6.28	6.25	6.21	6.18
853.00	6.14	6.11	6.09	6.06	6.03
858.00	6.01	5.99	5.97	5.94	5.92
863.00	5.90	5.88	5.86	5.84	5.82
868.00	5.80	5.78	5.76	5.74	5.72
873.00	5.70	5.68	5.66	5.64	5.63
878.00	5.61	5.59	5.57	5.55	5.53
883.00	5.51	5.49	5.47	5.46	5.44
888.00	5.42	5.40	5.38	5.36	5.34
893.00	5.32	5.30	5.28	5.26	5.25
898.00	5.23	5.21	5.19	5.17	5.15
903.00	5.13	5.11	5.09	5.07	5.05
908.00	5.04	5.02	5.00	4.98	4.96
913.00	4.94	4.92	4.90	4.88	4.86
918.00	4.84	4.82	4.81	4.79	4.77
923.00	4.75	4.73	4.71	4.69	4.67
928.00	4.65	4.63	4.61	4.60	4.58
933.00	4.56	4.54	4.52	4.50	4.48
938.00	4.46	4.44	4.42	4.40	4.38
943.00	4.37	4.35	4.33	4.31	4.29
948.00	4.27	4.25	4.23	4.21	4.19
953.00	4.17	4.15	4.13	4.12	4.10
958.00	4.08	4.06	4.04	4.02	4.00
963.00	3.98	3.96	3.95	3.93	3.91
968.00	3.90	3.88	3.87	3.86	3.85
973.00	3.83	3.82	3.81	3.80	3.80
978.00	3.79	3.78	3.77	3.76	3.76
983.00	3.75	3.74	3.73	3.73	3.72
988.00	3.71	3.71	3.70	3.69	3.68
993.00	3.68	3.67	3.66	3.66	3.65
998.00	3.64	3.64	3.63	3.62	3.62

1003.00	3.61	3.60	3.60	3.59	3.58
1008.00	3.58	3.57	3.56	3.55	3.55
1013.00	3.54	3.53	3.53	3.52	3.51
1018.00	3.51	3.50	3.49	3.49	3.48
1023.00	3.47	3.47	3.46	3.45	3.44
1028.00	3.44	3.43	3.42	3.42	3.41
1033.00	3.40	3.40	3.39	3.38	3.38
1038.00	3.37	3.36	3.36	3.35	3.34
1043.00	3.34	3.33	3.32	3.31	3.31
1048.00	3.30	3.29	3.29	3.28	3.27
1053.00	3.27	3.26	3.25	3.25	3.24
1058.00	3.23	3.23	3.22	3.21	3.21
1063.00	3.20	3.19	3.19	3.18	3.17

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.21

Name.... HIGHLAND MEADOWS Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1068.00	3.16	3.16	3.15	3.14	3.14
1073.00	3.13	3.12	3.12	3.11	3.10
1078.00	3.10	3.09	3.08	3.07	3.07
1083.00	3.06	3.05	3.05	3.04	3.03
1088.00	3.03	3.02	3.01	3.01	3.00
1093.00	2.99	2.99	2.98	2.97	2.96
1098.00	2.96	2.95	2.94	2.94	2.93
1103.00	2.92	2.92	2.91	2.90	2.90
1108.00	2.89	2.88	2.87	2.87	2.86
1113.00	2.86	2.85	2.84	2.83	2.83
1118.00	2.82	2.81	2.81	2.80	2.79
1123.00	2.79	2.78	2.77	2.77	2.76
1128.00	2.75	2.74	2.74	2.73	2.72
1133.00	2.72	2.71	2.70	2.70	2.69
1138.00	2.68	2.68	2.67	2.66	2.65
1143.00	2.65	2.64	2.63	2.63	2.62
1148.00	2.61	2.61	2.60	2.59	2.59
1153.00	2.58	2.57	2.56	2.56	2.55
1158.00	2.54	2.54	2.53	2.52	2.52
1163.00	2.51	2.50	2.50	2.49	2.48
1168.00	2.47	2.47	2.46	2.45	2.45
1173.00	2.44	2.43	2.43	2.42	2.41
1178.00	2.41	2.40	2.39	2.38	2.38
1183.00	2.37	2.36	2.36	2.35	2.34

1188.00	2.34	2.33	2.32	2.32	2.31
1193.00	2.30	2.29	2.29	2.28	2.27
1198.00	2.27	2.26	2.25	2.25	2.24
1203.00	2.23	2.23	2.22	2.21	2.21
1208.00	2.20	2.20	2.20	2.19	2.19
1213.00	2.18	2.18	2.18	2.18	2.17
1218.00	2.17	2.17	2.17	2.17	2.16
1223.00	2.16	2.16	2.16	2.16	2.16
1228.00	2.15	2.15	2.15	2.15	2.15
1233.00	2.15	2.15	2.14	2.14	2.14
1238.00	2.14	2.14	2.14	2.14	2.13
1243.00	2.13	2.13	2.13	2.13	2.13
1248.00	2.13	2.12	2.12	2.12	2.12
1253.00	2.12	2.12	2.12	2.12	2.11
1258.00	2.11	2.11	2.11	2.11	2.11
1263.00	2.11	2.10	2.10	2.10	2.10
1268.00	2.10	2.10	2.10	2.10	2.09
1273.00	2.09	2.09	2.09	2.09	2.09
1278.00	2.08	2.08	2.08	2.08	2.08
1283.00	2.08	2.08	2.08	2.07	2.07
1288.00	2.07	2.07	2.07	2.07	2.07

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.22

Name.... HIGHLAND MEADOWS Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1293.00	2.07	2.06	2.06	2.06	2.06
1298.00	2.06	2.06	2.05	2.05	2.05
1303.00	2.05	2.05	2.05	2.05	2.05
1308.00	2.04	2.04	2.04	2.04	2.04
1313.00	2.04	2.04	2.03	2.03	2.03
1318.00	2.03	2.03	2.03	2.03	2.03
1323.00	2.02	2.02	2.02	2.02	2.02
1328.00	2.02	2.02	2.01	2.01	2.01
1333.00	2.01	2.01	2.01	2.01	2.00
1338.00	2.00	2.00	2.00	2.00	2.00
1343.00	2.00	2.00	1.99	1.99	1.99
1348.00	1.99	1.99	1.99	1.99	1.98
1353.00	1.98	1.98	1.98	1.98	1.98
1358.00	1.98	1.97	1.97	1.97	1.97
1363.00	1.97	1.97	1.97	1.97	1.96
1368.00	1.96	1.96	1.96	1.96	1.96

1373.00	1.96	1.95	1.95	1.95	1.95
1378.00	1.95	1.95	1.95	1.94	1.94
1383.00	1.94	1.94	1.94	1.94	1.94
1388.00	1.93	1.93	1.93	1.93	1.93
1393.00	1.93	1.93	1.92	1.92	1.92
1398.00	1.92	1.92	1.92	1.92	1.92
1403.00	1.91	1.91	1.91	1.91	1.91
1408.00	1.91	1.91	1.90	1.90	1.90
1413.00	1.90	1.90	1.90	1.90	1.90
1418.00	1.89	1.89	1.89	1.89	1.89
1423.00	1.89	1.89	1.88	1.88	1.88
1428.00	1.88	1.88	1.88	1.88	1.87
1433.00	1.87	1.87	1.87	1.87	1.87
1438.00	1.87	1.87	1.86	1.85	1.83
1443.00	1.78	1.72	1.61	1.50	1.36
1448.00	1.21	1.06	.92	.78	.66
1453.00	.54	.46	.38	.32	.27
1458.00	.23	.19	.16	.13	.11
1463.00	.09	.08	.06	.05	.04
1468.00	.04	.03	.03	.02	.02
1473.00	.01	.01	.01	.01	.01
1478.00	.00	.00	.00	.00	.00

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 7.23

Name.... HM UNDET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 3798.00 min Rain Depth = 3.1000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HM UNDET 2

Tc = 14.50 min

Drainage Area = 5.840 acres Runoff CN= 82

```
=====
Computational Time Increment = 1.933 min
Computed Peak Time           = 723.07 min
Computed Peak Flow            = 10.44 cfs
```

Time Increment for HYG File = 1.00 min

Peak Time, Interpolated Output = 723.00 min

Peak Flow, Interpolated Output = 10.43 cfs
=====

DRAINAGE AREA

ID:HM UNDET

CN = 82

Area = 5.840 acres

S = 2.1951 in

0.2S = .4390 in

Cumulative Runoff

1.4581 in

.710 ac-ft

HYG Volume... .710 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 14.500 min (ID: HM UNDET)

Computational Incr, Tm = 1.933 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)

K = 483.43/645.333, K = .7491 (also, $K = 2/(1+(Tr/Tp))$)

Receding/Rising, Tr/Tp = 1.6698 (solved from $K = .7491$)

Unit peak, qp = 27.38 cfs

Unit peak time Tp = 9.667 min

Unit receding limb, Tr = 38.667 min

Total unit time, Tb = 48.333 min

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.24

Name.... HM UNDET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 3798.00 min Rain Depth = 3.1000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HM UNDET 2

Tc = 14.50 min

Drainage Area = 5.840 acres Runoff CN= 82
 Calc.Increment= 1.933 min Out.Incr.= 1.00 min
 HYG Volume = .710 ac-ft

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
538.00	.00	.00	.00	.00	.00	.00
543.00	.00	.00	.00	.00	.00	.01
548.00	.01	.01	.01	.01	.01	.01
553.00	.01	.01	.01	.01	.01	.01
558.00	.01	.02	.02	.02	.02	.02
563.00	.02	.02	.02	.02	.02	.02
568.00	.02	.02	.02	.03	.03	.03
573.00	.03	.03	.03	.03	.03	.03
578.00	.03	.03	.03	.03	.03	.04
583.00	.04	.04	.04	.04	.04	.04
588.00	.04	.04	.04	.05	.05	.05
593.00	.05	.05	.05	.05	.05	.05
598.00	.05	.06	.06	.06	.06	.06
603.00	.06	.06	.07	.07	.07	.07
608.00	.07	.07	.07	.08	.08	.08
613.00	.08	.08	.08	.08	.08	.09
618.00	.09	.09	.09	.10	.10	.10
623.00	.10	.10	.10	.11	.11	.11
628.00	.11	.11	.12	.12	.12	.12
633.00	.12	.13	.13	.13	.13	.14
638.00	.14	.14	.15	.15	.15	.15
643.00	.16	.16	.16	.17	.17	.17
648.00	.17	.18	.18	.19	.19	.19
653.00	.20	.20	.20	.21	.21	.21
658.00	.22	.22	.23	.23	.23	.24
663.00	.24	.25	.26	.26	.26	.27
668.00	.27	.28	.29	.30	.30	.31
673.00	.31	.32	.33	.34	.34	.35
678.00	.36	.37	.38	.39	.39	.40
683.00	.42	.43	.44	.45	.45	.47

S/N: C21F01C070CE Bowers Engineering Inc
 PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.25
 Name.... HM UNDET Tag: 2 Event: 2 yr
 File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
 Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)
 Output Time increment = 1.00 min
 Time |
 min | Time on left represents time for first value in each row.

688.00	.48	.49	.50	.52	.54
693.00	.57	.61	.65	.71	.78
698.00	.86	.97	1.09	1.24	1.40
703.00	1.60	1.81	2.06	2.32	2.63
708.00	2.96	3.35	3.78	4.26	4.82
713.00	5.44	6.13	6.86	7.58	8.30
718.00	8.91	9.49	9.89	10.25	10.36
723.00	10.43	10.20	9.95	9.43	8.89
728.00	8.24	7.59	6.93	6.29	5.71
733.00	5.16	4.69	4.27	3.93	3.62
738.00	3.37	3.14	2.94	2.77	2.61
743.00	2.48	2.35	2.24	2.14	2.05
748.00	1.96	1.88	1.81	1.74	1.67
753.00	1.61	1.55	1.50	1.45	1.40
758.00	1.35	1.31	1.28	1.24	1.21
763.00	1.19	1.16	1.14	1.12	1.10
768.00	1.08	1.07	1.05	1.04	1.03
773.00	1.01	1.00	.99	.98	.96
778.00	.95	.94	.93	.92	.91
783.00	.90	.89	.88	.87	.86
788.00	.85	.84	.83	.82	.81
793.00	.80	.80	.79	.78	.78
798.00	.77	.76	.76	.75	.74
803.00	.74	.73	.73	.72	.71
808.00	.71	.70	.70	.69	.68
813.00	.68	.67	.67	.66	.66
818.00	.65	.64	.64	.63	.63
823.00	.62	.62	.62	.61	.61
828.00	.60	.60	.59	.59	.58
833.00	.58	.57	.57	.57	.56
838.00	.56	.55	.55	.54	.54
843.00	.54	.53	.53	.52	.52
848.00	.52	.51	.51	.51	.51
853.00	.50	.50	.50	.50	.49
858.00	.49	.49	.49	.49	.49
863.00	.48	.48	.48	.48	.48
868.00	.48	.47	.47	.47	.47
873.00	.47	.47	.47	.46	.46
878.00	.46	.46	.46	.46	.46
883.00	.45	.45	.45	.45	.45
888.00	.45	.44	.44	.44	.44
893.00	.44	.44	.44	.43	.43
898.00	.43	.43	.43	.43	.43
903.00	.42	.42	.42	.42	.42
908.00	.42	.42	.41	.41	.41

S/N: C21F01C070CE
PondPack Ver:

Bowers Engineering Inc
Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... HM UNDET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Time min	Output Time increment = 1.00 min					
	Time on left represents time for first value in each row.					
913.00	.41	.41	.41	.40	.40	
918.00	.40	.40	.40	.40	.40	
923.00	.39	.39	.39	.39	.39	
928.00	.39	.38	.38	.38	.38	
933.00	.38	.38	.38	.37	.37	
938.00	.37	.37	.37	.37	.36	
943.00	.36	.36	.36	.36	.36	
948.00	.36	.35	.35	.35	.35	
953.00	.35	.35	.34	.34	.34	
958.00	.34	.34	.34	.34	.33	
963.00	.33	.33	.33	.33	.33	
968.00	.33	.32	.32	.32	.32	
973.00	.32	.32	.32	.32	.32	
978.00	.32	.32	.32	.31	.31	
983.00	.31	.31	.31	.31	.31	
988.00	.31	.31	.31	.31	.31	
993.00	.31	.31	.31	.31	.31	
998.00	.31	.30	.30	.30	.30	
1003.00	.30	.30	.30	.30	.30	
1008.00	.30	.30	.30	.30	.30	
1013.00	.30	.30	.30	.30	.30	
1018.00	.29	.29	.29	.29	.29	
1023.00	.29	.29	.29	.29	.29	
1028.00	.29	.29	.29	.29	.29	
1033.00	.29	.29	.29	.28	.28	
1038.00	.28	.28	.28	.28	.28	
1043.00	.28	.28	.28	.28	.28	
1048.00	.28	.28	.28	.28	.28	
1053.00	.28	.27	.27	.27	.27	
1058.00	.27	.27	.27	.27	.27	
1063.00	.27	.27	.27	.27	.27	
1068.00	.27	.27	.27	.27	.26	
1073.00	.26	.26	.26	.26	.26	
1078.00	.26	.26	.26	.26	.26	
1083.00	.26	.26	.26	.26	.26	
1088.00	.26	.26	.25	.25	.25	
1093.00	.25	.25	.25	.25	.25	
1098.00	.25	.25	.25	.25	.25	
1103.00	.25	.25	.25	.25	.25	
1108.00	.24	.24	.24	.24	.24	
1113.00	.24	.24	.24	.24	.24	

1118.00		.24	.24	.24	.24	.24
1123.00		.24	.24	.24	.23	.23
1128.00		.23	.23	.23	.23	.23
1133.00		.23	.23	.23	.23	.23

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.27
Name.... HM UNDET Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
1138.00	.23	.23	.23	.23	.23	.23
1143.00	.23	.22	.22	.22	.22	.22
1148.00	.22	.22	.22	.22	.22	.22
1153.00	.22	.22	.22	.22	.22	.22
1158.00	.22	.22	.22	.21	.21	.21
1163.00	.21	.21	.21	.21	.21	.21
1168.00	.21	.21	.21	.21	.21	.21
1173.00	.21	.21	.21	.21	.21	.21
1178.00	.21	.20	.20	.20	.20	.20
1183.00	.20	.20	.20	.20	.20	.20
1188.00	.20	.20	.20	.20	.20	.20
1193.00	.20	.20	.20	.19	.19	.19
1198.00	.19	.19	.19	.19	.19	.19
1203.00	.19	.19	.19	.19	.19	.19
1208.00	.19	.19	.19	.19	.19	.19
1213.00	.19	.19	.19	.19	.19	.19
1218.00	.19	.19	.19	.18	.18	.18
1223.00	.18	.18	.18	.18	.18	.18
1228.00	.18	.18	.18	.18	.18	.18
1233.00	.18	.18	.18	.18	.18	.18
1238.00	.18	.18	.18	.18	.18	.18
1243.00	.18	.18	.18	.18	.18	.18
1248.00	.18	.18	.18	.18	.18	.18
1253.00	.18	.18	.18	.18	.18	.18
1258.00	.18	.18	.18	.18	.18	.18
1263.00	.18	.18	.18	.18	.18	.18
1268.00	.18	.18	.18	.18	.18	.18
1273.00	.18	.18	.18	.18	.18	.18
1278.00	.18	.18	.18	.18	.18	.18
1283.00	.18	.18	.18	.18	.18	.18
1288.00	.18	.18	.18	.18	.18	.18
1293.00	.18	.18	.18	.18	.18	.18
1298.00	.18	.18	.18	.18	.18	.18

1303.00	.18	.18	.18	.18	.18
1308.00	.18	.18	.18	.18	.18
1313.00	.17	.17	.17	.17	.17
1318.00	.17	.17	.17	.17	.17
1323.00	.17	.17	.17	.17	.17
1328.00	.17	.17	.17	.17	.17
1333.00	.17	.17	.17	.17	.17
1338.00	.17	.17	.17	.17	.17
1343.00	.17	.17	.17	.17	.17
1348.00	.17	.17	.17	.17	.17
1353.00	.17	.17	.17	.17	.17
1358.00	.17	.17	.17	.17	.17

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.28

Name.... HM UNDET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1363.00	.17	.17	.17	.17	.17
1368.00	.17	.17	.17	.17	.17
1373.00	.17	.17	.17	.17	.17
1378.00	.17	.17	.17	.17	.17
1383.00	.17	.17	.17	.17	.17
1388.00	.17	.17	.17	.17	.17
1393.00	.17	.17	.17	.17	.17
1398.00	.17	.17	.17	.17	.17
1403.00	.17	.17	.16	.16	.16
1408.00	.16	.16	.16	.16	.16
1413.00	.16	.16	.16	.16	.16
1418.00	.16	.16	.16	.16	.16
1423.00	.16	.16	.16	.16	.16
1428.00	.16	.16	.16	.16	.16
1433.00	.16	.16	.16	.16	.16
1438.00	.16	.16	.16	.16	.16
1443.00	.15	.15	.14	.13	.12
1448.00	.11	.10	.08	.07	.06
1453.00	.05	.04	.04	.03	.03
1458.00	.02	.02	.02	.01	.01
1463.00	.01	.01	.01	.01	.00
1468.00	.00	.00	.00	.00	.00
1473.00	.00	.00	.00	.00	

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 7.29

Name.... HM UNDET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm

Duration = 3798.00 min Rain Depth = 5.6700 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HM UNDET 10 yr

Tc = 14.50 min

Drainage Area = 5.840 acres Runoff CN= 82

=====
Computational Time Increment = 1.933 min
Computed Peak Time = 721.13 min
Computed Peak Flow = 26.06 cfs

Time Increment for HYG File = 1.00 min
Peak Time, Interpolated Output = 722.00 min
Peak Flow, Interpolated Output = 26.02 cfs
=====

DRAINAGE AREA

ID:HM UNDET

CN = 82

Area = 5.840 acres

S = 2.1951 in

0.2S = .4390 in

Cumulative Runoff

3.6847 in

1.793 ac-ft

HYG Volume... 1.793 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 14.500 min (ID: HM UNDET)

Computational Incr, Tm = 1.933 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)

K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
 Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 27.38 cfs
 Unit peak time Tp = 9.667 min
 Unit receding limb, Tr = 38.667 min
 Total unit time, Tb = 48.333 min

S/N: C21F01C070CE Bowers Engineering Inc
 PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.30

Name.... HM UNDET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm

Duration = 3798.00 min Rain Depth = 5.6700 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HM UNDET 10 yr

Tc = 14.50 min

Drainage Area = 5.840 acres Runoff CN= 82

Calc.Increment= 1.933 min Out.Incr.= 1.00 min

HYG Volume = 1.793 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
360.00	.00	.00	.00	.00	.00
365.00	.00	.00	.00	.01	.01
370.00	.01	.01	.01	.01	.01
375.00	.01	.01	.01	.01	.02
380.00	.02	.02	.02	.02	.02
385.00	.02	.02	.02	.02	.02
390.00	.03	.03	.03	.03	.03
395.00	.03	.03	.03	.03	.03
400.00	.04	.04	.04	.04	.04
405.00	.04	.04	.04	.04	.04
410.00	.05	.05	.05	.05	.05
415.00	.05	.05	.05	.05	.06
420.00	.06	.06	.06	.06	.06
425.00	.06	.06	.06	.06	.07
430.00	.07	.07	.07	.07	.07
435.00	.07	.07	.07	.08	.08

440.00	.08	.08	.08	.08	.08
445.00	.08	.08	.09	.09	.09
450.00	.09	.09	.09	.09	.09
455.00	.09	.10	.10	.10	.10
460.00	.10	.10	.10	.10	.11
465.00	.11	.11	.11	.11	.11
470.00	.11	.11	.11	.12	.12
475.00	.12	.12	.12	.12	.12
480.00	.12	.13	.13	.13	.13
485.00	.13	.13	.13	.14	.14
490.00	.14	.14	.14	.14	.15
495.00	.15	.15	.15	.15	.16
500.00	.16	.16	.16	.16	.17
505.00	.17	.17	.17	.18	.18

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.31

Name.... HM UNDET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
510.00	.18	.18	.19	.19	.19
515.00	.19	.20	.20	.20	.20
520.00	.21	.21	.21	.21	.22
525.00	.22	.22	.23	.23	.23
530.00	.23	.24	.24	.24	.25
535.00	.25	.25	.25	.26	.26
540.00	.26	.27	.27	.27	.28
545.00	.28	.28	.29	.29	.29
550.00	.29	.30	.30	.30	.30
555.00	.30	.31	.31	.31	.31
560.00	.31	.32	.32	.32	.32
565.00	.32	.33	.33	.33	.33
570.00	.33	.33	.34	.34	.34
575.00	.34	.34	.35	.35	.35
580.00	.35	.36	.36	.36	.37
585.00	.37	.38	.38	.39	.39
590.00	.39	.40	.40	.41	.41
595.00	.42	.42	.43	.43	.44
600.00	.44	.45	.45	.46	.46
605.00	.47	.48	.48	.49	.49
610.00	.50	.51	.51	.52	.53
615.00	.53	.54	.55	.56	.56
620.00	.57	.58	.59	.59	.60

625.00	.61	.62	.63	.63	.64
630.00	.65	.66	.67	.68	.69
635.00	.69	.70	.71	.72	.73
640.00	.74	.76	.77	.78	.79
645.00	.80	.82	.83	.84	.86
650.00	.87	.88	.90	.91	.92
655.00	.94	.95	.97	.98	1.00
660.00	1.01	1.03	1.04	1.06	1.08
665.00	1.09	1.11	1.13	1.15	1.17
670.00	1.20	1.22	1.25	1.27	1.30
675.00	1.33	1.36	1.39	1.42	1.45
680.00	1.49	1.52	1.55	1.59	1.62
685.00	1.66	1.70	1.73	1.77	1.81
690.00	1.85	1.90	1.96	2.05	2.15
695.00	2.31	2.47	2.71	2.96	3.30
700.00	3.65	4.11	4.59	5.18	5.80
705.00	6.50	7.24	8.07	8.98	10.00
710.00	11.11	12.33	13.72	15.26	16.92
715.00	18.66	20.33	21.96	23.31	24.54
720.00	25.31	25.97	26.02	25.98	25.24
725.00	24.45	23.05	21.62	19.96	18.30
730.00	16.67	15.08	13.64	12.28	11.14

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.32

Name.... HM UNDET

Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
735.00	10.11	9.27	8.52	7.90	7.34
740.00	6.86	6.43	6.06	5.73	5.42
745.00	5.16	4.91	4.69	4.48	4.30
750.00	4.12	3.96	3.80	3.65	3.51
755.00	3.39	3.27	3.16	3.05	2.96
760.00	2.87	2.79	2.72	2.66	2.60
765.00	2.55	2.50	2.46	2.42	2.39
770.00	2.35	2.32	2.29	2.26	2.23
775.00	2.20	2.17	2.15	2.12	2.09
780.00	2.07	2.04	2.01	1.99	1.97
785.00	1.94	1.92	1.90	1.88	1.85
790.00	1.84	1.82	1.80	1.78	1.76
795.00	1.75	1.73	1.72	1.70	1.69
800.00	1.67	1.66	1.64	1.63	1.61
805.00	1.60	1.59	1.57	1.56	1.55

810.00	1.53	1.52	1.51	1.49	1.48
815.00	1.47	1.45	1.44	1.43	1.42
820.00	1.41	1.39	1.38	1.37	1.36
825.00	1.35	1.34	1.33	1.32	1.31
830.00	1.30	1.29	1.28	1.27	1.26
835.00	1.25	1.24	1.23	1.22	1.21
840.00	1.20	1.19	1.18	1.17	1.16
845.00	1.16	1.15	1.14	1.13	1.12
850.00	1.12	1.11	1.10	1.10	1.09
855.00	1.09	1.08	1.08	1.07	1.07
860.00	1.07	1.06	1.06	1.05	1.05
865.00	1.05	1.04	1.04	1.04	1.03
870.00	1.03	1.03	1.02	1.02	1.02
875.00	1.01	1.01	1.01	1.00	1.00
880.00	1.00	.99	.99	.99	.98
885.00	.98	.98	.97	.97	.97
890.00	.96	.96	.96	.95	.95
895.00	.95	.94	.94	.94	.93
900.00	.93	.93	.92	.92	.92
905.00	.91	.91	.91	.90	.90
910.00	.90	.89	.89	.89	.88
915.00	.88	.88	.87	.87	.87
920.00	.86	.86	.86	.85	.85
925.00	.85	.84	.84	.83	.83
930.00	.83	.82	.82	.82	.81
935.00	.81	.81	.80	.80	.80
940.00	.79	.79	.79	.78	.78
945.00	.78	.77	.77	.77	.76
950.00	.76	.76	.75	.75	.75
955.00	.74	.74	.74	.73	.73

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.33

Name.... HM UNDET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
960.00	.73	.72	.72	.72	.71
965.00	.71	.71	.70	.70	.70
970.00	.70	.69	.69	.69	.69
975.00	.69	.68	.68	.68	.68
980.00	.68	.68	.68	.67	.67
985.00	.67	.67	.67	.67	.67
990.00	.66	.66	.66	.66	.66

995.00	.66	.66	.66	.65	.65
1000.00	.65	.65	.65	.65	.65
1005.00	.65	.65	.64	.64	.64
1010.00	.64	.64	.64	.64	.64
1015.00	.63	.63	.63	.63	.63
1020.00	.63	.63	.63	.62	.62
1025.00	.62	.62	.62	.62	.62
1030.00	.62	.62	.61	.61	.61
1035.00	.61	.61	.61	.61	.61
1040.00	.60	.60	.60	.60	.60
1045.00	.60	.60	.60	.59	.59
1050.00	.59	.59	.59	.59	.59
1055.00	.59	.58	.58	.58	.58
1060.00	.58	.58	.58	.58	.58
1065.00	.57	.57	.57	.57	.57
1070.00	.57	.57	.57	.56	.56
1075.00	.56	.56	.56	.56	.56
1080.00	.56	.55	.55	.55	.55
1085.00	.55	.55	.55	.55	.54
1090.00	.54	.54	.54	.54	.54
1095.00	.54	.54	.53	.53	.53
1100.00	.53	.53	.53	.53	.53
1105.00	.53	.52	.52	.52	.52
1110.00	.52	.52	.52	.52	.51
1115.00	.51	.51	.51	.51	.51
1120.00	.51	.51	.50	.50	.50
1125.00	.50	.50	.50	.50	.50
1130.00	.49	.49	.49	.49	.49
1135.00	.49	.49	.49	.48	.48
1140.00	.48	.48	.48	.48	.48
1145.00	.48	.47	.47	.47	.47
1150.00	.47	.47	.47	.47	.46
1155.00	.46	.46	.46	.46	.46
1160.00	.46	.46	.45	.45	.45
1165.00	.45	.45	.45	.45	.45
1170.00	.44	.44	.44	.44	.44
1175.00	.44	.44	.44	.43	.43
1180.00	.43	.43	.43	.43	.43

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.34
Name.... HM UNDET Tag: 10 yr Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time	Output Time increment = 1.00 min
min	Time on left represents time for first value in each row.

1185.00	.43	.42	.42	.42	.42
1190.00	.42	.42	.42	.42	.41
1195.00	.41	.41	.41	.41	.41
1200.00	.41	.41	.41	.40	.40
1205.00	.40	.40	.40	.40	.40
1210.00	.40	.40	.40	.39	.39
1215.00	.39	.39	.39	.39	.39
1220.00	.39	.39	.39	.39	.39
1225.00	.39	.39	.39	.39	.39
1230.00	.39	.39	.39	.39	.39
1235.00	.39	.39	.39	.39	.39
1240.00	.39	.39	.39	.39	.39
1245.00	.39	.39	.38	.38	.38
1250.00	.38	.38	.38	.38	.38
1255.00	.38	.38	.38	.38	.38
1260.00	.38	.38	.38	.38	.38
1265.00	.38	.38	.38	.38	.38
1270.00	.38	.38	.38	.38	.38
1275.00	.38	.38	.38	.38	.38
1280.00	.38	.38	.38	.38	.38
1285.00	.38	.38	.38	.37	.37
1290.00	.37	.37	.37	.37	.37
1295.00	.37	.37	.37	.37	.37
1300.00	.37	.37	.37	.37	.37
1305.00	.37	.37	.37	.37	.37
1310.00	.37	.37	.37	.37	.37
1315.00	.37	.37	.37	.37	.37
1320.00	.37	.37	.37	.37	.37
1325.00	.37	.37	.37	.37	.37
1330.00	.36	.36	.36	.36	.36
1335.00	.36	.36	.36	.36	.36
1340.00	.36	.36	.36	.36	.36
1345.00	.36	.36	.36	.36	.36
1350.00	.36	.36	.36	.36	.36
1355.00	.36	.36	.36	.36	.36
1360.00	.36	.36	.36	.36	.36
1365.00	.36	.36	.36	.36	.36
1370.00	.36	.35	.35	.35	.35
1375.00	.35	.35	.35	.35	.35
1380.00	.35	.35	.35	.35	.35
1385.00	.35	.35	.35	.35	.35
1390.00	.35	.35	.35	.35	.35
1395.00	.35	.35	.35	.35	.35
1400.00	.35	.35	.35	.35	.35
1405.00	.35	.35	.35	.35	.35

S/N: C21F01C070CE
PondPack Ver:

Bowers Engineering Inc
Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.35

Name.... HM UNDET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1410.00	.35	.35	.34	.34	.34
1415.00	.34	.34	.34	.34	.34
1420.00	.34	.34	.34	.34	.34
1425.00	.34	.34	.34	.34	.34
1430.00	.34	.34	.34	.34	.34
1435.00	.34	.34	.34	.34	.34
1440.00	.34	.33	.33	.32	.31
1445.00	.30	.28	.25	.23	.20
1450.00	.18	.15	.13	.11	.09
1455.00	.08	.07	.06	.05	.04
1460.00	.03	.03	.02	.02	.02
1465.00	.01	.01	.01	.01	.01
1470.00	.01	.00	.00	.00	.00
1475.00	.00	.00	.00	.00	.00

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 7.36

Name.... HM UNDET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 3798.00 min Rain Depth = 9.2000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HM UNDET 100 yr

Tc = 14.50 min

Drainage Area = 5.840 acres Runoff CN= 82

=====
Computational Time Increment = 1.933 min
Computed Peak Time = 721.13 min
Computed Peak Flow = 48.40 cfs

Time Increment for HYG File = 1.00 min

Peak Time, Interpolated Output = 721.00 min
Peak Flow, Interpolated Output = 48.26 cfs
=====

DRAINAGE AREA

ID:HM UNDET

CN = 82

Area = 5.840 acres

S = 2.1951 in

0.2S = .4390 in

Cumulative Runoff

7.0057 in

3.409 ac-ft

HYG Volume... 3.410 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 14.500 min (ID: HM UNDET)

Computational Incr, Tm = 1.933 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)

K = 483.43/645.333, K = .7491 (also, $K = 2/(1+(Tr/Tp))$)

Receding/Rising, Tr/Tp = 1.6698 (solved from $K = .7491$)

Unit peak, qp = 27.38 cfs

Unit peak time Tp = 9.667 min

Unit receding limb, Tr = 38.667 min

Total unit time, Tb = 48.333 min

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.37

Name.... HM UNDET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 3798.00 min Rain Depth = 9.2000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - HM UNDET 100 yr

Tc = 14.50 min
 Drainage Area = 5.840 acres Runoff CN= 82
 Calc.Increment= 1.933 min Out.Incr.= 1.00 min
 HYG Volume = 3.410 ac-ft

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
246.00	.00	.00	.00	.00	.00	.00
251.00	.00	.01	.01	.01	.01	.01
256.00	.01	.01	.01	.01	.01	.02
261.00	.02	.02	.02	.02	.02	.02
266.00	.02	.03	.03	.03	.03	.03
271.00	.03	.03	.04	.04	.04	.04
276.00	.04	.04	.04	.04	.04	.05
281.00	.05	.05	.05	.05	.05	.05
286.00	.06	.06	.06	.06	.06	.06
291.00	.07	.07	.07	.07	.07	.07
296.00	.07	.08	.08	.08	.08	.08
301.00	.08	.08	.09	.09	.09	.09
306.00	.09	.09	.09	.10	.10	.10
311.00	.10	.10	.10	.11	.11	.11
316.00	.11	.11	.11	.12	.12	.12
321.00	.12	.12	.12	.12	.12	.13
326.00	.13	.13	.13	.13	.13	.14
331.00	.14	.14	.14	.14	.14	.15
336.00	.15	.15	.15	.15	.15	.16
341.00	.16	.16	.16	.16	.16	.16
346.00	.17	.17	.17	.17	.17	.17
351.00	.18	.18	.18	.18	.18	.18
356.00	.19	.19	.19	.19	.19	.19
361.00	.20	.20	.20	.20	.20	.21
366.00	.21	.21	.21	.21	.21	.22
371.00	.22	.22	.22	.22	.22	.23
376.00	.23	.23	.23	.23	.23	.24
381.00	.24	.24	.24	.24	.24	.25
386.00	.25	.25	.25	.26	.26	.26
391.00	.26	.26	.26	.27	.27	.27

S/N: C21F01C070CE Bowers Engineering Inc
 PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.38
 Name.... HM UNDET Tag: 100 yr Event: 100 yr
 File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
 Storm... Type II 24hr Tag: 100 yr

Time | HYDROGRAPH ORDINATES (cfs)
 | Output Time increment = 1.00 min

min	Time on left represents time for first value in each row.				
396.00	.27	.27	.28	.28	.28
401.00	.28	.28	.29	.29	.29
406.00	.29	.29	.30	.30	.30
411.00	.30	.31	.31	.31	.31
416.00	.31	.32	.32	.32	.32
421.00	.33	.33	.33	.33	.33
426.00	.34	.34	.34	.34	.35
431.00	.35	.35	.35	.36	.36
436.00	.36	.36	.36	.37	.37
441.00	.37	.37	.38	.38	.38
446.00	.38	.38	.39	.39	.39
451.00	.39	.40	.40	.40	.40
456.00	.41	.41	.41	.41	.42
461.00	.42	.42	.42	.42	.43
466.00	.43	.43	.43	.44	.44
471.00	.44	.44	.45	.45	.45
476.00	.45	.46	.46	.46	.46
481.00	.46	.47	.47	.47	.48
486.00	.48	.48	.48	.49	.49
491.00	.50	.50	.50	.51	.51
496.00	.52	.52	.53	.53	.54
501.00	.54	.55	.56	.56	.57
506.00	.57	.58	.58	.59	.60
511.00	.60	.61	.61	.62	.63
516.00	.63	.64	.64	.65	.66
521.00	.66	.67	.68	.68	.69
526.00	.69	.70	.71	.71	.72
531.00	.73	.73	.74	.75	.75
536.00	.76	.77	.77	.78	.79
541.00	.80	.80	.81	.82	.82
546.00	.83	.83	.84	.85	.85
551.00	.86	.86	.86	.87	.87
556.00	.88	.88	.88	.89	.89
561.00	.89	.89	.90	.90	.90
566.00	.91	.91	.91	.91	.92
571.00	.92	.92	.93	.93	.93
576.00	.94	.94	.95	.95	.96
581.00	.96	.97	.98	.99	.99
586.00	1.00	1.01	1.02	1.03	1.04
591.00	1.05	1.06	1.07	1.08	1.09
596.00	1.10	1.11	1.12	1.13	1.15
601.00	1.16	1.17	1.18	1.19	1.20
606.00	1.22	1.23	1.24	1.25	1.27
611.00	1.28	1.29	1.31	1.32	1.34
616.00	1.35	1.37	1.39	1.40	1.42

S/N: C21F01C070CE

Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.39

Name.... HM UNDET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
621.00	1.43	1.45	1.47	1.48	1.50
626.00	1.52	1.53	1.55	1.57	1.59
631.00	1.60	1.62	1.64	1.66	1.68
636.00	1.70	1.72	1.74	1.76	1.78
641.00	1.80	1.83	1.85	1.88	1.90
646.00	1.93	1.95	1.98	2.01	2.04
651.00	2.06	2.09	2.12	2.15	2.18
656.00	2.21	2.24	2.27	2.29	2.33
661.00	2.36	2.39	2.42	2.45	2.49
666.00	2.53	2.57	2.61	2.65	2.70
671.00	2.75	2.80	2.85	2.91	2.97
676.00	3.03	3.09	3.15	3.22	3.28
681.00	3.35	3.42	3.49	3.56	3.63
686.00	3.70	3.77	3.84	3.91	3.99
691.00	4.10	4.22	4.41	4.61	4.92
696.00	5.25	5.74	6.25	6.93	7.64
701.00	8.56	9.54	10.71	11.93	13.29
706.00	14.73	16.33	18.05	19.98	22.06
711.00	24.32	26.87	29.67	32.67	35.80
716.00	38.76	41.63	43.93	46.02	47.25
721.00	48.26	48.17	47.91	46.40	44.81
726.00	42.13	39.43	36.34	33.25	30.25
731.00	27.32	24.68	22.19	20.11	18.21
736.00	16.68	15.31	14.17	13.15	12.27
741.00	11.49	10.81	10.20	9.65	9.17
746.00	8.72	8.32	7.94	7.61	7.28
751.00	6.99	6.70	6.45	6.20	5.98
756.00	5.75	5.56	5.37	5.20	5.05
761.00	4.91	4.78	4.67	4.56	4.47
766.00	4.39	4.32	4.25	4.18	4.12
771.00	4.07	4.01	3.96	3.90	3.85
776.00	3.80	3.76	3.71	3.66	3.62
781.00	3.57	3.53	3.48	3.44	3.40
786.00	3.36	3.32	3.28	3.24	3.21
791.00	3.17	3.14	3.11	3.08	3.05
796.00	3.02	2.99	2.97	2.94	2.92
801.00	2.89	2.87	2.84	2.82	2.79
806.00	2.77	2.74	2.72	2.70	2.67
811.00	2.65	2.62	2.60	2.58	2.56
816.00	2.53	2.51	2.49	2.47	2.45

821.00	2.43	2.41	2.39	2.37	2.35
826.00	2.33	2.31	2.29	2.28	2.26
831.00	2.24	2.22	2.21	2.19	2.17
836.00	2.16	2.14	2.12	2.10	2.09
841.00	2.07	2.05	2.04	2.02	2.01

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.40

Name.... HM UNDET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
846.00	1.99	1.98	1.97	1.95	1.94
851.00	1.93	1.92	1.91	1.90	1.89
856.00	1.88	1.87	1.86	1.86	1.85
861.00	1.84	1.84	1.83	1.82	1.82
866.00	1.81	1.80	1.80	1.79	1.79
871.00	1.78	1.77	1.77	1.76	1.76
876.00	1.75	1.74	1.74	1.73	1.73
881.00	1.72	1.71	1.71	1.70	1.70
886.00	1.69	1.69	1.68	1.67	1.67
891.00	1.66	1.66	1.65	1.64	1.64
896.00	1.63	1.63	1.62	1.61	1.61
901.00	1.60	1.60	1.59	1.58	1.58
906.00	1.57	1.57	1.56	1.56	1.55
911.00	1.54	1.54	1.53	1.53	1.52
916.00	1.51	1.51	1.50	1.50	1.49
921.00	1.48	1.48	1.47	1.47	1.46
926.00	1.45	1.45	1.44	1.44	1.43
931.00	1.43	1.42	1.41	1.41	1.40
936.00	1.40	1.39	1.38	1.38	1.37
941.00	1.37	1.36	1.35	1.35	1.34
946.00	1.34	1.33	1.32	1.32	1.31
951.00	1.31	1.30	1.29	1.29	1.28
956.00	1.28	1.27	1.26	1.26	1.25
961.00	1.25	1.24	1.24	1.23	1.22
966.00	1.22	1.21	1.21	1.20	1.20
971.00	1.20	1.19	1.19	1.19	1.18
976.00	1.18	1.18	1.17	1.17	1.17
981.00	1.17	1.16	1.16	1.16	1.16
986.00	1.15	1.15	1.15	1.15	1.15
991.00	1.14	1.14	1.14	1.14	1.14
996.00	1.13	1.13	1.13	1.13	1.12
1001.00	1.12	1.12	1.12	1.12	1.11

1006.00	1.11	1.11	1.11	1.11	1.10
1011.00	1.10	1.10	1.10	1.09	1.09
1016.00	1.09	1.09	1.09	1.08	1.08
1021.00	1.08	1.08	1.08	1.07	1.07
1026.00	1.07	1.07	1.07	1.06	1.06
1031.00	1.06	1.06	1.05	1.05	1.05
1036.00	1.05	1.05	1.04	1.04	1.04
1041.00	1.04	1.04	1.03	1.03	1.03
1046.00	1.03	1.02	1.02	1.02	1.02
1051.00	1.02	1.01	1.01	1.01	1.01
1056.00	1.01	1.00	1.00	1.00	1.00
1061.00	1.00	.99	.99	.99	.99
1066.00	.98	.98	.98	.98	.98

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.41

Name.... HM UNDET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1071.00	.97	.97	.97	.97	.97
1076.00	.96	.96	.96	.96	.95
1081.00	.95	.95	.95	.95	.94
1086.00	.94	.94	.94	.94	.93
1091.00	.93	.93	.93	.92	.92
1096.00	.92	.92	.92	.91	.91
1101.00	.91	.91	.91	.90	.90
1106.00	.90	.90	.90	.89	.89
1111.00	.89	.89	.88	.88	.88
1116.00	.88	.88	.87	.87	.87
1121.00	.87	.87	.86	.86	.86
1126.00	.86	.85	.85	.85	.85
1131.00	.85	.84	.84	.84	.84
1136.00	.84	.83	.83	.83	.83
1141.00	.82	.82	.82	.82	.82
1146.00	.81	.81	.81	.81	.81
1151.00	.80	.80	.80	.80	.79
1156.00	.79	.79	.79	.79	.78
1161.00	.78	.78	.78	.78	.77
1166.00	.77	.77	.77	.76	.76
1171.00	.76	.76	.76	.75	.75
1176.00	.75	.75	.75	.74	.74
1181.00	.74	.74	.73	.73	.73
1186.00	.73	.73	.72	.72	.72

1191.00	.72	.72	.71	.71	.71
1196.00	.71	.70	.70	.70	.70
1201.00	.70	.69	.69	.69	.69
1206.00	.69	.68	.68	.68	.68
1211.00	.68	.68	.68	.68	.67
1216.00	.67	.67	.67	.67	.67
1221.00	.67	.67	.67	.67	.67
1226.00	.67	.67	.67	.67	.67
1231.00	.67	.67	.66	.66	.66
1236.00	.66	.66	.66	.66	.66
1241.00	.66	.66	.66	.66	.66
1246.00	.66	.66	.66	.66	.66
1251.00	.66	.66	.66	.66	.66
1256.00	.65	.65	.65	.65	.65
1261.00	.65	.65	.65	.65	.65
1266.00	.65	.65	.65	.65	.65
1271.00	.65	.65	.65	.65	.65
1276.00	.65	.65	.65	.65	.64
1281.00	.64	.64	.64	.64	.64
1286.00	.64	.64	.64	.64	.64
1291.00	.64	.64	.64	.64	.64

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.42

Name.... HM UNDET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1296.00	.64	.64	.64	.64	.64
1301.00	.64	.64	.63	.63	.63
1306.00	.63	.63	.63	.63	.63
1311.00	.63	.63	.63	.63	.63
1316.00	.63	.63	.63	.63	.63
1321.00	.63	.63	.63	.63	.63
1326.00	.63	.62	.62	.62	.62
1331.00	.62	.62	.62	.62	.62
1336.00	.62	.62	.62	.62	.62
1341.00	.62	.62	.62	.62	.62
1346.00	.62	.62	.62	.62	.62
1351.00	.61	.61	.61	.61	.61
1356.00	.61	.61	.61	.61	.61
1361.00	.61	.61	.61	.61	.61
1366.00	.61	.61	.61	.61	.61
1371.00	.61	.61	.61	.60	.60

1376.00	.60	.60	.60	.60	.60
1381.00	.60	.60	.60	.60	.60
1386.00	.60	.60	.60	.60	.60
1391.00	.60	.60	.60	.60	.60
1396.00	.60	.60	.59	.59	.59
1401.00	.59	.59	.59	.59	.59
1406.00	.59	.59	.59	.59	.59
1411.00	.59	.59	.59	.59	.59
1416.00	.59	.59	.59	.59	.59
1421.00	.58	.58	.58	.58	.58
1426.00	.58	.58	.58	.58	.58
1431.00	.58	.58	.58	.58	.58
1436.00	.58	.58	.58	.58	.58
1441.00	.57	.56	.55	.53	.51
1446.00	.47	.43	.39	.35	.30
1451.00	.26	.22	.19	.16	.13
1456.00	.11	.10	.08	.07	.06
1461.00	.05	.04	.03	.03	.02
1466.00	.02	.02	.01	.01	.01
1471.00	.01	.01	.01	.00	.00
1476.00	.00	.00	.00	.00	.00
1481.00	.00				

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 7.43

Name.... OFFSITE DET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 3798.00 min Rain Depth = 3.1000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - OFFSITE DET 2

Tc = 30.00 min

Drainage Area = 22.000 acres Runoff CN= 74

```
=====
Computational Time Increment    =    4.000 min
Computed Peak Time               =    732.00 min
Computed Peak Flow               =    16.99 cfs
```

Time Increment for HYG File = 1.00 min

Peak Time, Interpolated Output = 732.00 min

Peak Flow, Interpolated Output = 16.99 cfs
=====

DRAINAGE AREA

ID:OFFSITE DET

CN = 74
Area = 22.000 acres
S = 3.5135 in
0.2S = .7027 in

Cumulative Runoff

.9723 in
1.783 ac-ft

HYG Volume... 1.783 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 30.000 min (ID: OFFSITE DET)
Computational Incr, Tm = 4.000 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, $K = 2/(1+(Tr/Tp))$)
Receding/Rising, Tr/Tp = 1.6698 (solved from $K = .7491$)

Unit peak, qp = 49.85 cfs
Unit peak time Tp = 20.000 min
Unit receding limb, Tr = 80.000 min
Total unit time, Tb = 100.000 min

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.44

Name.... OFFSITE DET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 3798.00 min Rain Depth = 3.1000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - OFFSITE DET 2

Tc = 30.00 min

Drainage Area = 22.000 acres Runoff CN= 74
 Calc.Increment= 4.000 min Out.Incr.= 1.00 min
 HYG Volume = 1.783 ac-ft

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
658.00	.00	.00	.00	.00	.00	.00
663.00	.00	.01	.01	.01	.01	.01
668.00	.01	.02	.02	.03	.03	.03
673.00	.04	.04	.05	.05	.06	.06
678.00	.07	.08	.09	.10	.11	.11
683.00	.12	.13	.15	.16	.17	.17
688.00	.19	.21	.22	.24	.26	.26
693.00	.29	.31	.34	.37	.42	.42
698.00	.47	.52	.57	.67	.77	.77
703.00	.87	.97	1.16	1.35	1.54	1.54
708.00	1.73	2.10	2.47	2.84	3.22	3.22
713.00	3.83	4.44	5.06	5.67	6.56	6.56
718.00	7.44	8.33	9.21	10.16	11.11	11.11
723.00	12.07	13.02	13.74	14.47	15.20	15.20
728.00	15.92	16.19	16.46	16.73	16.99	16.99
733.00	16.83	16.66	16.49	16.32	15.88	15.88
738.00	15.43	14.99	14.54	13.99	13.44	13.44
743.00	12.89	12.34	11.82	11.30	10.77	10.77
748.00	10.25	9.85	9.44	9.04	8.64	8.64
753.00	8.33	8.01	7.70	7.39	7.14	7.14
758.00	6.88	6.63	6.37	6.16	5.95	5.95
763.00	5.74	5.53	5.37	5.20	5.03	5.03
768.00	4.86	4.73	4.59	4.46	4.32	4.32
773.00	4.22	4.11	4.00	3.90	3.81	3.81
778.00	3.73	3.65	3.56	3.49	3.42	3.42
783.00	3.35	3.28	3.23	3.17	3.11	3.11
788.00	3.06	3.01	2.96	2.91	2.86	2.86
793.00	2.82	2.78	2.74	2.70	2.66	2.66
798.00	2.62	2.59	2.55	2.52	2.49	2.49
803.00	2.46	2.43	2.40	2.37	2.34	2.34

S/N: C21F01C070CE Bowers Engineering Inc
 PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.45
 Name.... OFFSITE DET Tag: 2 Event: 2 yr
 File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
 Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)
 Output Time increment = 1.00 min
 Time on left represents time for first value in each row.

808.00	2.31	2.29	2.26	2.24	2.21
813.00	2.19	2.17	2.15	2.13	2.11
818.00	2.09	2.07	2.05	2.04	2.02
823.00	2.00	1.99	1.97	1.95	1.94
828.00	1.92	1.91	1.89	1.88	1.86
833.00	1.85	1.83	1.82	1.80	1.79
838.00	1.78	1.76	1.75	1.74	1.72
843.00	1.71	1.70	1.68	1.67	1.66
848.00	1.65	1.64	1.62	1.61	1.60
853.00	1.59	1.58	1.57	1.56	1.55
858.00	1.54	1.53	1.52	1.51	1.51
863.00	1.50	1.49	1.48	1.48	1.47
868.00	1.46	1.46	1.45	1.44	1.44
873.00	1.43	1.43	1.42	1.42	1.41
878.00	1.41	1.40	1.40	1.39	1.39
883.00	1.38	1.38	1.37	1.37	1.36
888.00	1.36	1.35	1.35	1.35	1.34
893.00	1.34	1.33	1.33	1.32	1.32
898.00	1.32	1.31	1.31	1.30	1.30
903.00	1.29	1.29	1.29	1.28	1.28
908.00	1.27	1.27	1.27	1.26	1.26
913.00	1.25	1.25	1.24	1.24	1.24
918.00	1.23	1.23	1.22	1.22	1.21
923.00	1.21	1.21	1.20	1.20	1.19
928.00	1.19	1.19	1.18	1.18	1.17
933.00	1.17	1.16	1.16	1.16	1.15
938.00	1.15	1.14	1.14	1.13	1.13
943.00	1.13	1.12	1.12	1.11	1.11
948.00	1.10	1.10	1.09	1.09	1.09
953.00	1.08	1.08	1.07	1.07	1.06
958.00	1.06	1.06	1.05	1.05	1.04
963.00	1.04	1.03	1.03	1.03	1.02
968.00	1.02	1.01	1.01	1.00	1.00
973.00	1.00	.99	.99	.99	.98
978.00	.98	.98	.97	.97	.97
983.00	.96	.96	.96	.96	.95
988.00	.95	.95	.95	.94	.94
993.00	.94	.94	.94	.93	.93
998.00	.93	.93	.93	.92	.92
1003.00	.92	.92	.92	.92	.91
1008.00	.91	.91	.91	.91	.91
1013.00	.90	.90	.90	.90	.90
1018.00	.90	.89	.89	.89	.89
1023.00	.89	.89	.88	.88	.88
1028.00	.88	.88	.88	.88	.87

S/N: C21F01C070CE
PondPack Ver:

Bowers Engineering Inc
Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.46

Name.... OFFSITE DET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1033.00	.87	.87	.87	.87	.87
1038.00	.86	.86	.86	.86	.86
1043.00	.86	.86	.85	.85	.85
1048.00	.85	.85	.85	.84	.84
1053.00	.84	.84	.84	.84	.84
1058.00	.83	.83	.83	.83	.83
1063.00	.83	.82	.82	.82	.82
1068.00	.82	.82	.82	.81	.81
1073.00	.81	.81	.81	.81	.80
1078.00	.80	.80	.80	.80	.80
1083.00	.79	.79	.79	.79	.79
1088.00	.79	.79	.78	.78	.78
1093.00	.78	.78	.78	.77	.77
1098.00	.77	.77	.77	.77	.76
1103.00	.76	.76	.76	.76	.76
1108.00	.75	.75	.75	.75	.75
1113.00	.75	.75	.74	.74	.74
1118.00	.74	.74	.74	.73	.73
1123.00	.73	.73	.73	.73	.72
1128.00	.72	.72	.72	.72	.72
1133.00	.71	.71	.71	.71	.71
1138.00	.71	.70	.70	.70	.70
1143.00	.70	.70	.69	.69	.69
1148.00	.69	.69	.69	.68	.68
1153.00	.68	.68	.68	.68	.67
1158.00	.67	.67	.67	.67	.67
1163.00	.66	.66	.66	.66	.66
1168.00	.66	.65	.65	.65	.65
1173.00	.65	.65	.64	.64	.64
1178.00	.64	.64	.64	.63	.63
1183.00	.63	.63	.63	.63	.62
1188.00	.62	.62	.62	.62	.62
1193.00	.61	.61	.61	.61	.61
1198.00	.61	.60	.60	.60	.60
1203.00	.60	.60	.59	.59	.59
1208.00	.59	.59	.59	.58	.58
1213.00	.58	.58	.58	.58	.58
1218.00	.57	.57	.57	.57	.57
1223.00	.57	.57	.57	.57	.57
1228.00	.57	.56	.56	.56	.56
1233.00	.56	.56	.56	.56	.56

1238.00		.56	.56	.56	.56	.56
1243.00		.56	.56	.56	.56	.56
1248.00		.56	.56	.55	.55	.55
1253.00		.55	.55	.55	.55	.55

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.47
Name.... OFFSITE DET Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					

1258.00	.55	.55	.55	.55	.55	.55
1263.00	.55	.55	.55	.55	.55	.55
1268.00	.55	.55	.55	.55	.55	.55
1273.00	.55	.55	.55	.55	.55	.55
1278.00	.55	.55	.55	.55	.55	.54
1283.00	.54	.54	.54	.54	.54	.54
1288.00	.54	.54	.54	.54	.54	.54
1293.00	.54	.54	.54	.54	.54	.54
1298.00	.54	.54	.54	.54	.54	.54
1303.00	.54	.54	.54	.54	.54	.54
1308.00	.54	.54	.54	.54	.54	.54
1313.00	.54	.54	.54	.53	.53	.53
1318.00	.53	.53	.53	.53	.53	.53
1323.00	.53	.53	.53	.53	.53	.53
1328.00	.53	.53	.53	.53	.53	.53
1333.00	.53	.53	.53	.53	.53	.53
1338.00	.53	.53	.53	.53	.53	.53
1343.00	.53	.53	.53	.53	.53	.53
1348.00	.53	.52	.52	.52	.52	.52
1353.00	.52	.52	.52	.52	.52	.52
1358.00	.52	.52	.52	.52	.52	.52
1363.00	.52	.52	.52	.52	.52	.52
1368.00	.52	.52	.52	.52	.52	.52
1373.00	.52	.52	.52	.52	.52	.52
1378.00	.52	.52	.52	.52	.52	.51
1383.00	.51	.51	.51	.51	.51	.51
1388.00	.51	.51	.51	.51	.51	.51
1393.00	.51	.51	.51	.51	.51	.51
1398.00	.51	.51	.51	.51	.51	.51
1403.00	.51	.51	.51	.51	.51	.51
1408.00	.51	.51	.51	.51	.51	.51
1413.00	.51	.50	.50	.50	.50	.50
1418.00	.50	.50	.50	.50	.50	.50

1423.00	.50	.50	.50	.50	.50
1428.00	.50	.50	.50	.50	.50
1433.00	.50	.50	.50	.50	.50
1438.00	.50	.50	.50	.49	.49
1443.00	.49	.49	.48	.48	.47
1448.00	.46	.45	.44	.43	.41
1453.00	.40	.38	.36	.35	.33
1458.00	.31	.29	.27	.25	.24
1463.00	.22	.20	.19	.17	.16
1468.00	.14	.13	.12	.11	.10
1473.00	.10	.09	.08	.07	.07
1478.00	.06	.06	.05	.05	.05

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Unit Hyd. (HYG output) Page 7.48
Name.... OFFSITE DET Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1483.00	.04	.04	.04	.03	.03
1488.00	.03	.03	.02	.02	.02
1493.00	.02	.02	.02	.01	.01
1498.00	.01	.01	.01	.01	.01
1503.00	.01	.01	.01	.01	.01
1508.00	.00	.00	.00	.00	.00
1513.00	.00	.00	.00	.00	.00
1518.00	.00	.00	.00	.00	.00
1523.00	.00	.00			

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Unit Hyd. Summary Page 7.49
Name.... OFFSITE DET Tag: 10 yr Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm
Duration = 3798.00 min Rain Depth = 5.6700 in
Rain Dir = F:\PJJ HM AsBuilt\
Rain File -ID = - Type II 24hr
Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\
HYG File - ID = - OFFSITE DET 10 yr
Tc = 30.00 min
Drainage Area = 22.000 acres Runoff CN= 74

=====
Computational Time Increment = 4.000 min
Computed Peak Time = 732.00 min
Computed Peak Flow = 54.51 cfs

Time Increment for HYG File = 1.00 min
Peak Time, Interpolated Output = 732.00 min
Peak Flow, Interpolated Output = 54.51 cfs
=====

DRAINAGE AREA

ID:OFFSITE DET

CN = 74
Area = 22.000 acres
S = 3.5135 in
0.2S = .7027 in

Cumulative Runoff

2.9094 in
5.334 ac-ft

HYG Volume... 5.334 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 30.000 min (ID: OFFSITE DET)
Computational Incr, Tm = 4.000 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 49.85 cfs
Unit peak time Tp = 20.000 min
Unit receding limb, Tr = 80.000 min
Total unit time, Tb = 100.000 min

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.50

Name.... OFFSITE DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm

Duration = 3798.00 min Rain Depth = 5.6700 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - OFFSITE DET 10 yr

Tc = 30.00 min

Drainage Area = 22.000 acres Runoff CN= 74

Calc.Increment= 4.000 min Out.Incr.= 1.00 min

HYG Volume = 5.334 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
498.00	.00	.00	.00	.00	.00
503.00	.00	.00	.01	.01	.01
508.00	.01	.01	.01	.01	.02
513.00	.02	.02	.02	.03	.03
518.00	.03	.04	.04	.04	.05
523.00	.05	.05	.06	.06	.07
528.00	.07	.08	.08	.09	.09
533.00	.10	.10	.11	.11	.12
538.00	.12	.13	.13	.14	.14
543.00	.15	.16	.16	.17	.17
548.00	.18	.19	.19	.20	.20
553.00	.21	.22	.22	.23	.24
558.00	.24	.25	.26	.26	.27
563.00	.28	.28	.29	.29	.30
568.00	.31	.31	.32	.33	.33
573.00	.34	.34	.35	.36	.36
578.00	.37	.38	.38	.39	.40
583.00	.40	.41	.42	.42	.43
588.00	.44	.45	.45	.46	.47
593.00	.48	.49	.50	.51	.52
598.00	.52	.53	.54	.55	.56
603.00	.57	.59	.60	.61	.62
608.00	.63	.64	.65	.67	.68
613.00	.69	.70	.72	.73	.74
618.00	.76	.77	.78	.80	.82
623.00	.83	.85	.86	.88	.89
628.00	.91	.93	.95	.96	.98
633.00	1.00	1.02	1.04	1.06	1.08
638.00	1.10	1.12	1.14	1.16	1.18
643.00	1.20	1.22	1.25	1.27	1.30

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... OFFSITE DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
648.00	1.32	1.35	1.37	1.40	1.43
653.00	1.45	1.48	1.51	1.54	1.57
658.00	1.60	1.63	1.67	1.70	1.73
663.00	1.77	1.80	1.84	1.88	1.91
668.00	1.95	1.99	2.04	2.08	2.12
673.00	2.17	2.22	2.27	2.31	2.37
678.00	2.43	2.48	2.54	2.60	2.67
683.00	2.73	2.80	2.87	2.94	3.02
688.00	3.09	3.18	3.27	3.36	3.45
693.00	3.59	3.72	3.85	3.98	4.23
698.00	4.48	4.72	4.97	5.44	5.90
703.00	6.37	6.83	7.65	8.47	9.29
708.00	10.11	11.50	12.90	14.30	15.69
713.00	17.77	19.84	21.91	23.98	26.71
718.00	29.44	32.17	34.90	37.60	40.29
723.00	42.99	45.68	47.51	49.33	51.16
728.00	52.98	53.37	53.75	54.13	54.51
733.00	53.63	52.75	51.86	50.98	49.34
738.00	47.70	46.06	44.42	42.57	40.72
743.00	38.87	37.02	35.33	33.64	31.95
748.00	30.27	28.98	27.70	26.41	25.13
753.00	24.14	23.15	22.16	21.17	20.38
758.00	19.59	18.80	18.01	17.37	16.72
763.00	16.08	15.44	14.93	14.42	13.91
768.00	13.40	12.99	12.59	12.18	11.78
773.00	11.46	11.15	10.83	10.51	10.26
778.00	10.01	9.77	9.52	9.31	9.11
783.00	8.91	8.71	8.54	8.37	8.21
788.00	8.04	7.90	7.76	7.62	7.48
793.00	7.36	7.24	7.12	7.01	6.90
798.00	6.80	6.70	6.60	6.51	6.42
803.00	6.33	6.24	6.16	6.08	6.00
808.00	5.92	5.85	5.79	5.72	5.65
813.00	5.59	5.54	5.48	5.42	5.37
818.00	5.32	5.27	5.22	5.18	5.13
823.00	5.08	5.04	5.00	4.95	4.91
828.00	4.87	4.83	4.79	4.75	4.71

833.00	4.67	4.63	4.59	4.55	4.52
838.00	4.48	4.45	4.41	4.38	4.34
843.00	4.31	4.27	4.24	4.21	4.18
848.00	4.14	4.11	4.08	4.05	4.02
853.00	4.00	3.97	3.94	3.91	3.89
858.00	3.86	3.84	3.81	3.79	3.77
863.00	3.75	3.73	3.71	3.69	3.67
868.00	3.66	3.64	3.62	3.61	3.59

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... OFFSITE DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
873.00	3.58	3.56	3.55	3.53	3.52
878.00	3.51	3.49	3.48	3.47	3.45
883.00	3.44	3.43	3.42	3.40	3.39
888.00	3.38	3.37	3.36	3.34	3.33
893.00	3.32	3.31	3.30	3.29	3.27
898.00	3.26	3.25	3.24	3.23	3.22
903.00	3.21	3.20	3.18	3.17	3.16
908.00	3.15	3.14	3.13	3.12	3.11
913.00	3.10	3.09	3.07	3.06	3.05
918.00	3.04	3.03	3.02	3.01	3.00
923.00	2.99	2.98	2.96	2.95	2.94
928.00	2.93	2.92	2.91	2.90	2.89
933.00	2.88	2.86	2.85	2.84	2.83
938.00	2.82	2.81	2.80	2.79	2.78
943.00	2.76	2.75	2.74	2.73	2.72
948.00	2.71	2.70	2.69	2.68	2.66
953.00	2.65	2.64	2.63	2.62	2.61
958.00	2.60	2.59	2.57	2.56	2.55
963.00	2.54	2.53	2.52	2.51	2.50
968.00	2.49	2.48	2.47	2.46	2.44
973.00	2.44	2.43	2.42	2.41	2.40
978.00	2.39	2.38	2.37	2.36	2.36
983.00	2.35	2.34	2.34	2.33	2.32
988.00	2.32	2.31	2.30	2.30	2.29
993.00	2.29	2.28	2.28	2.27	2.27
998.00	2.26	2.26	2.25	2.25	2.24
1003.00	2.24	2.23	2.23	2.23	2.22
1008.00	2.22	2.21	2.21	2.20	2.20
1013.00	2.20	2.19	2.19	2.18	2.18

1018.00	2.18	2.17	2.17	2.16	2.16
1023.00	2.15	2.15	2.15	2.14	2.14
1028.00	2.13	2.13	2.13	2.12	2.12
1033.00	2.11	2.11	2.11	2.10	2.10
1038.00	2.09	2.09	2.09	2.08	2.08
1043.00	2.07	2.07	2.07	2.06	2.06
1048.00	2.05	2.05	2.05	2.04	2.04
1053.00	2.03	2.03	2.03	2.02	2.02
1058.00	2.02	2.01	2.01	2.00	2.00
1063.00	2.00	1.99	1.99	1.98	1.98
1068.00	1.98	1.97	1.97	1.96	1.96
1073.00	1.96	1.95	1.95	1.94	1.94
1078.00	1.93	1.93	1.93	1.92	1.92
1083.00	1.91	1.91	1.91	1.90	1.90
1088.00	1.89	1.89	1.89	1.88	1.88
1093.00	1.87	1.87	1.87	1.86	1.86

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.53

Name.... OFFSITE DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1098.00	1.85	1.85	1.85	1.84	1.84
1103.00	1.83	1.83	1.83	1.82	1.82
1108.00	1.81	1.81	1.81	1.80	1.80
1113.00	1.79	1.79	1.79	1.78	1.78
1118.00	1.77	1.77	1.76	1.76	1.76
1123.00	1.75	1.75	1.74	1.74	1.74
1128.00	1.73	1.73	1.72	1.72	1.72
1133.00	1.71	1.71	1.70	1.70	1.70
1138.00	1.69	1.69	1.68	1.68	1.68
1143.00	1.67	1.67	1.66	1.66	1.65
1148.00	1.65	1.65	1.64	1.64	1.63
1153.00	1.63	1.63	1.62	1.62	1.61
1158.00	1.61	1.61	1.60	1.60	1.59
1163.00	1.59	1.58	1.58	1.58	1.57
1168.00	1.57	1.56	1.56	1.56	1.55
1173.00	1.55	1.54	1.54	1.53	1.53
1178.00	1.53	1.52	1.52	1.51	1.51
1183.00	1.51	1.50	1.50	1.49	1.49
1188.00	1.49	1.48	1.48	1.47	1.47
1193.00	1.46	1.46	1.46	1.45	1.45
1198.00	1.44	1.44	1.44	1.43	1.43

1203.00	1.42	1.42	1.41	1.41	1.41
1208.00	1.40	1.40	1.39	1.39	1.39
1213.00	1.38	1.38	1.38	1.37	1.37
1218.00	1.37	1.37	1.36	1.36	1.36
1223.00	1.36	1.35	1.35	1.35	1.35
1228.00	1.34	1.34	1.34	1.34	1.34
1233.00	1.34	1.34	1.33	1.33	1.33
1238.00	1.33	1.33	1.33	1.33	1.33
1243.00	1.32	1.32	1.32	1.32	1.32
1248.00	1.32	1.32	1.32	1.32	1.32
1253.00	1.31	1.31	1.31	1.31	1.31
1258.00	1.31	1.31	1.31	1.31	1.31
1263.00	1.31	1.31	1.30	1.30	1.30
1268.00	1.30	1.30	1.30	1.30	1.30
1273.00	1.30	1.30	1.30	1.30	1.29
1278.00	1.29	1.29	1.29	1.29	1.29
1283.00	1.29	1.29	1.29	1.29	1.29
1288.00	1.29	1.29	1.28	1.28	1.28
1293.00	1.28	1.28	1.28	1.28	1.28
1298.00	1.28	1.28	1.28	1.28	1.28
1303.00	1.27	1.27	1.27	1.27	1.27
1308.00	1.27	1.27	1.27	1.27	1.27
1313.00	1.27	1.27	1.26	1.26	1.26
1318.00	1.26	1.26	1.26	1.26	1.26

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.54
Name.... OFFSITE DET Tag: 10 yr Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1323.00	1.26	1.26	1.26	1.26	1.26
1328.00	1.25	1.25	1.25	1.25	1.25
1333.00	1.25	1.25	1.25	1.25	1.25
1338.00	1.25	1.25	1.25	1.24	1.24
1343.00	1.24	1.24	1.24	1.24	1.24
1348.00	1.24	1.24	1.24	1.24	1.24
1353.00	1.23	1.23	1.23	1.23	1.23
1358.00	1.23	1.23	1.23	1.23	1.23
1363.00	1.23	1.23	1.23	1.22	1.22
1368.00	1.22	1.22	1.22	1.22	1.22
1373.00	1.22	1.22	1.22	1.22	1.22
1378.00	1.22	1.21	1.21	1.21	1.21
1383.00	1.21	1.21	1.21	1.21	1.21

1388.00	1.21	1.21	1.21	1.20	1.20
1393.00	1.20	1.20	1.20	1.20	1.20
1398.00	1.20	1.20	1.20	1.20	1.20
1403.00	1.20	1.19	1.19	1.19	1.19
1408.00	1.19	1.19	1.19	1.19	1.19
1413.00	1.19	1.19	1.19	1.18	1.18
1418.00	1.18	1.18	1.18	1.18	1.18
1423.00	1.18	1.18	1.18	1.18	1.18
1428.00	1.18	1.17	1.17	1.17	1.17
1433.00	1.17	1.17	1.17	1.17	1.17
1438.00	1.17	1.17	1.17	1.16	1.16
1443.00	1.15	1.14	1.13	1.12	1.10
1448.00	1.09	1.06	1.03	1.00	.97
1453.00	.93	.89	.85	.81	.77
1458.00	.72	.68	.64	.60	.56
1463.00	.52	.48	.44	.41	.37
1468.00	.34	.32	.29	.27	.24
1473.00	.23	.21	.19	.18	.16
1478.00	.15	.14	.13	.12	.11
1483.00	.10	.09	.08	.08	.07
1488.00	.07	.06	.06	.05	.05
1493.00	.04	.04	.04	.03	.03
1498.00	.03	.03	.02	.02	.02
1503.00	.02	.02	.02	.01	.01
1508.00	.01	.01	.01	.01	.01
1513.00	.01	.01	.01	.01	.00
1518.00	.00	.00	.00	.00	.00
1523.00	.00	.00	.00	.00	.00
1528.00	.00	.00			

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 7.55

Name.... OFFSITE DET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 3798.00 min Rain Depth = 9.2000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - OFFSITE DET 100 yr

Tc = 30.00 min

Drainage Area = 22.000 acres Runoff CN= 74


```

=====
Computational Time Increment = 4.000 min
Computed Peak Time          = 732.00 min
Computed Peak Flow          = 112.38 cfs

Time Increment for HYG File = 1.00 min
Peak Time, Interpolated Output = 732.00 min
Peak Flow, Interpolated Output = 112.38 cfs
=====

```

DRAINAGE AREA

```

-----
ID:OFFSITE DET
CN   = 74
Area = 22.000 acres
S    = 3.5135 in
0.2S = .7027 in

```

Cumulative Runoff

```

-----
6.0116 in
11.021 ac-ft

```

HYG Volume... 11.021 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

```

Time Concentration, Tc = 30.000 min (ID: OFFSITE DET)
Computational Incr, Tm = 4.000 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 49.85 cfs
Unit peak time Tp = 20.000 min
Unit receding limb, Tr = 80.000 min
Total unit time, Tb = 100.000 min

```

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)
Name.... OFFSITE DET Tag: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

Page 7.56
Event: 100 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 3798.00 min Rain Depth = 9.2000 in
 Rain Dir = F:\PJJ HM AsBuilt\
 Rain File -ID = - Type II 24hr
 Unit Hyd Type = Default Curvilinear
 HYG Dir = F:\PJJ HM AsBuilt\
 HYG File - ID = - OFFSITE DET 100 yr
 Tc = 30.00 min
 Drainage Area = 22.000 acres Runoff CN= 74
 Calc.Increment= 4.000 min Out.Incr.= 1.00 min
 HYG Volume = 11.021 ac-ft

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
355.00	.00	.00	.00	.00	.00	.00
360.00	.00	.01	.01	.01	.01	.01
365.00	.01	.01	.02	.02	.02	.02
370.00	.02	.03	.03	.03	.04	.04
375.00	.04	.04	.05	.05	.06	.06
380.00	.06	.07	.07	.08	.08	.08
385.00	.09	.09	.10	.10	.11	.11
390.00	.11	.12	.12	.13	.13	.13
395.00	.14	.14	.15	.16	.16	.16
400.00	.17	.17	.18	.19	.19	.19
405.00	.20	.20	.21	.22	.22	.22
410.00	.23	.23	.24	.25	.25	.25
415.00	.26	.26	.27	.28	.28	.28
420.00	.29	.30	.30	.31	.31	.31
425.00	.32	.33	.33	.34	.35	.35
430.00	.35	.36	.37	.37	.38	.38
435.00	.39	.39	.40	.41	.41	.41
440.00	.42	.43	.43	.44	.45	.45
445.00	.45	.46	.47	.47	.48	.48
450.00	.49	.49	.50	.51	.51	.51
455.00	.52	.53	.54	.54	.55	.55
460.00	.56	.56	.57	.58	.58	.58
465.00	.59	.60	.61	.61	.62	.62
470.00	.63	.63	.64	.65	.65	.65
475.00	.66	.67	.68	.68	.69	.69
480.00	.70	.71	.71	.72	.73	.73
485.00	.74	.74	.75	.76	.77	.77
490.00	.77	.78	.79	.80	.81	.81
495.00	.82	.83	.84	.84	.85	.85
500.00	.86	.87	.89	.90	.91	.91

S/N: C21F01C070CE Bowers Engineering Inc
 PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Name.... OFFSITE DET Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
505.00	.92	.93	.94	.95	.97
510.00	.98	.99	1.00	1.02	1.03
515.00	1.04	1.06	1.07	1.09	1.10
520.00	1.11	1.13	1.14	1.16	1.17
525.00	1.19	1.21	1.22	1.24	1.25
530.00	1.27	1.28	1.30	1.32	1.33
535.00	1.35	1.37	1.38	1.40	1.42
540.00	1.44	1.45	1.47	1.49	1.51
545.00	1.52	1.54	1.56	1.58	1.60
550.00	1.61	1.63	1.65	1.67	1.68
555.00	1.70	1.72	1.73	1.75	1.76
560.00	1.78	1.79	1.81	1.82	1.84
565.00	1.85	1.87	1.88	1.89	1.91
570.00	1.92	1.93	1.94	1.96	1.97
575.00	1.98	1.99	2.01	2.02	2.03
580.00	2.05	2.06	2.07	2.09	2.10
585.00	2.12	2.14	2.15	2.17	2.19
590.00	2.21	2.23	2.25	2.27	2.29
595.00	2.31	2.34	2.36	2.38	2.41
600.00	2.43	2.46	2.49	2.51	2.54
605.00	2.57	2.60	2.63	2.66	2.69
610.00	2.72	2.75	2.78	2.82	2.85
615.00	2.88	2.92	2.96	2.99	3.03
620.00	3.07	3.11	3.14	3.18	3.22
625.00	3.27	3.31	3.35	3.39	3.44
630.00	3.48	3.53	3.57	3.62	3.67
635.00	3.72	3.76	3.81	3.87	3.92
640.00	3.97	4.02	4.08	4.13	4.19
645.00	4.25	4.31	4.37	4.43	4.49
650.00	4.56	4.63	4.69	4.76	4.83
655.00	4.91	4.98	5.05	5.13	5.21
660.00	5.28	5.36	5.45	5.53	5.61
665.00	5.70	5.79	5.88	5.97	6.07
670.00	6.17	6.27	6.37	6.49	6.61
675.00	6.72	6.84	6.97	7.11	7.24
680.00	7.37	7.53	7.68	7.83	7.99
685.00	8.16	8.33	8.50	8.68	8.89
690.00	9.10	9.31	9.53	9.84	10.15
695.00	10.45	10.76	11.35	11.93	12.52
700.00	13.10	14.18	15.27	16.35	17.44
705.00	19.29	21.15	23.01	24.87	27.92
710.00	30.98	34.03	37.08	41.43	45.77

715.00	50.12	54.46	59.98	65.50	71.01
720.00	76.53	81.77	87.02	92.26	97.51
725.00	100.84	104.16	107.49	110.82	111.21

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... OFFSITE DET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
730.00	111.60	111.99	112.38	110.27	108.16
735.00	106.06	103.95	100.40	96.85	93.30
740.00	89.75	85.87	81.98	78.10	74.22
745.00	70.73	67.25	63.77	60.28	57.64
750.00	55.00	52.36	49.72	47.70	45.67
755.00	43.65	41.63	40.02	38.41	36.80
760.00	35.19	33.89	32.58	31.28	29.98
765.00	28.95	27.93	26.90	25.88	25.07
770.00	24.25	23.44	22.63	22.00	21.37
775.00	20.74	20.10	19.61	19.11	18.61
780.00	18.12	17.71	17.31	16.91	16.51
785.00	16.18	15.85	15.52	15.19	14.91
790.00	14.64	14.36	14.09	13.86	13.62
795.00	13.39	13.16	12.96	12.76	12.56
800.00	12.36	12.19	12.01	11.84	11.67
805.00	11.51	11.36	11.20	11.05	10.92
810.00	10.79	10.66	10.53	10.42	10.31
815.00	10.20	10.09	9.99	9.90	9.80
820.00	9.71	9.62	9.53	9.45	9.36
825.00	9.28	9.20	9.11	9.03	8.96
830.00	8.88	8.80	8.73	8.66	8.58
835.00	8.51	8.44	8.37	8.31	8.24
840.00	8.17	8.10	8.04	7.98	7.91
845.00	7.85	7.79	7.73	7.67	7.61
850.00	7.55	7.49	7.44	7.38	7.33
855.00	7.28	7.23	7.18	7.14	7.09
860.00	7.04	7.00	6.96	6.92	6.88
865.00	6.85	6.81	6.78	6.74	6.71
870.00	6.68	6.65	6.62	6.59	6.57
875.00	6.54	6.51	6.48	6.46	6.43
880.00	6.41	6.38	6.36	6.33	6.31
885.00	6.29	6.26	6.24	6.22	6.20
890.00	6.17	6.15	6.13	6.11	6.08
895.00	6.06	6.04	6.02	6.00	5.98

900.00	5.96	5.93	5.91	5.89	5.87
905.00	5.85	5.83	5.81	5.79	5.77
910.00	5.74	5.72	5.70	5.68	5.66
915.00	5.64	5.62	5.60	5.58	5.56
920.00	5.54	5.52	5.50	5.47	5.45
925.00	5.43	5.41	5.39	5.37	5.35
930.00	5.33	5.31	5.29	5.27	5.25
935.00	5.23	5.21	5.18	5.16	5.14
940.00	5.12	5.10	5.08	5.06	5.04
945.00	5.02	5.00	4.98	4.96	4.94
950.00	4.91	4.89	4.87	4.85	4.83

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... OFFSITE DET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
955.00	4.81	4.79	4.77	4.75	4.73
960.00	4.71	4.68	4.66	4.64	4.62
965.00	4.60	4.58	4.56	4.54	4.52
970.00	4.50	4.48	4.46	4.45	4.43
975.00	4.41	4.39	4.38	4.36	4.35
980.00	4.33	4.32	4.30	4.29	4.27
985.00	4.26	4.25	4.24	4.23	4.21
990.00	4.20	4.19	4.18	4.17	4.16
995.00	4.15	4.14	4.13	4.12	4.12
1000.00	4.11	4.10	4.09	4.08	4.07
1005.00	4.06	4.05	4.05	4.04	4.03
1010.00	4.02	4.01	4.01	4.00	3.99
1015.00	3.98	3.97	3.97	3.96	3.95
1020.00	3.94	3.94	3.93	3.92	3.91
1025.00	3.91	3.90	3.89	3.88	3.88
1030.00	3.87	3.86	3.85	3.85	3.84
1035.00	3.83	3.82	3.82	3.81	3.80
1040.00	3.79	3.79	3.78	3.77	3.76
1045.00	3.76	3.75	3.74	3.73	3.73
1050.00	3.72	3.71	3.70	3.70	3.69
1055.00	3.68	3.67	3.67	3.66	3.65
1060.00	3.64	3.64	3.63	3.62	3.62
1065.00	3.61	3.60	3.59	3.59	3.58
1070.00	3.57	3.56	3.56	3.55	3.54
1075.00	3.53	3.53	3.52	3.51	3.50
1080.00	3.50	3.49	3.48	3.47	3.47

1085.00	3.46	3.45	3.44	3.44	3.43
1090.00	3.42	3.41	3.41	3.40	3.39
1095.00	3.38	3.38	3.37	3.36	3.35
1100.00	3.35	3.34	3.33	3.32	3.32
1105.00	3.31	3.30	3.29	3.29	3.28
1110.00	3.27	3.26	3.26	3.25	3.24
1115.00	3.23	3.23	3.22	3.21	3.20
1120.00	3.20	3.19	3.18	3.17	3.17
1125.00	3.16	3.15	3.14	3.14	3.13
1130.00	3.12	3.11	3.11	3.10	3.09
1135.00	3.08	3.08	3.07	3.06	3.05
1140.00	3.04	3.04	3.03	3.02	3.01
1145.00	3.01	3.00	2.99	2.98	2.98
1150.00	2.97	2.96	2.95	2.95	2.94
1155.00	2.93	2.92	2.92	2.91	2.90
1160.00	2.89	2.89	2.88	2.87	2.86
1165.00	2.86	2.85	2.84	2.83	2.83
1170.00	2.82	2.81	2.80	2.80	2.79
1175.00	2.78	2.77	2.76	2.76	2.75

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... OFFSITE DET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1180.00	2.74	2.73	2.73	2.72	2.71
1185.00	2.70	2.70	2.69	2.68	2.67
1190.00	2.67	2.66	2.65	2.64	2.64
1195.00	2.63	2.62	2.61	2.61	2.60
1200.00	2.59	2.58	2.57	2.57	2.56
1205.00	2.55	2.55	2.54	2.53	2.52
1210.00	2.52	2.51	2.50	2.50	2.49
1215.00	2.48	2.48	2.47	2.47	2.46
1220.00	2.46	2.45	2.45	2.44	2.44
1225.00	2.44	2.43	2.43	2.42	2.42
1230.00	2.42	2.42	2.41	2.41	2.41
1235.00	2.40	2.40	2.40	2.40	2.40
1240.00	2.39	2.39	2.39	2.39	2.38
1245.00	2.38	2.38	2.38	2.38	2.38
1250.00	2.37	2.37	2.37	2.37	2.37
1255.00	2.36	2.36	2.36	2.36	2.36
1260.00	2.36	2.36	2.35	2.35	2.35
1265.00	2.35	2.35	2.35	2.34	2.34

1270.00	2.34	2.34	2.34	2.34	2.34
1275.00	2.33	2.33	2.33	2.33	2.33
1280.00	2.33	2.32	2.32	2.32	2.32
1285.00	2.32	2.32	2.32	2.31	2.31
1290.00	2.31	2.31	2.31	2.31	2.31
1295.00	2.30	2.30	2.30	2.30	2.30
1300.00	2.30	2.30	2.29	2.29	2.29
1305.00	2.29	2.29	2.29	2.28	2.28
1310.00	2.28	2.28	2.28	2.28	2.28
1315.00	2.27	2.27	2.27	2.27	2.27
1320.00	2.27	2.27	2.26	2.26	2.26
1325.00	2.26	2.26	2.26	2.26	2.25
1330.00	2.25	2.25	2.25	2.25	2.25
1335.00	2.24	2.24	2.24	2.24	2.24
1340.00	2.24	2.24	2.23	2.23	2.23
1345.00	2.23	2.23	2.23	2.23	2.22
1350.00	2.22	2.22	2.22	2.22	2.22
1355.00	2.22	2.21	2.21	2.21	2.21
1360.00	2.21	2.21	2.20	2.20	2.20
1365.00	2.20	2.20	2.20	2.20	2.19
1370.00	2.19	2.19	2.19	2.19	2.19
1375.00	2.19	2.18	2.18	2.18	2.18
1380.00	2.18	2.18	2.18	2.17	2.17
1385.00	2.17	2.17	2.17	2.17	2.16
1390.00	2.16	2.16	2.16	2.16	2.16
1395.00	2.16	2.15	2.15	2.15	2.15
1400.00	2.15	2.15	2.15	2.14	2.14

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.61

Name.... OFFSITE DET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1405.00	2.14	2.14	2.14	2.14	2.13
1410.00	2.13	2.13	2.13	2.13	2.13
1415.00	2.13	2.12	2.12	2.12	2.12
1420.00	2.12	2.12	2.12	2.11	2.11
1425.00	2.11	2.11	2.11	2.11	2.11
1430.00	2.10	2.10	2.10	2.10	2.10
1435.00	2.10	2.09	2.09	2.09	2.09
1440.00	2.09	2.08	2.07	2.06	2.05
1445.00	2.03	2.00	1.98	1.95	1.90
1450.00	1.85	1.79	1.74	1.67	1.60

1455.00	1.52	1.45	1.37	1.30	1.22
1460.00	1.14	1.07	1.00	.92	.85
1465.00	.79	.73	.67	.61	.57
1470.00	.52	.48	.43	.40	.37
1475.00	.34	.31	.29	.27	.25
1480.00	.23	.21	.19	.18	.16
1485.00	.15	.14	.13	.12	.11
1490.00	.10	.09	.08	.08	.07
1495.00	.07	.06	.06	.05	.05
1500.00	.04	.04	.04	.03	.03
1505.00	.03	.03	.02	.02	.02
1510.00	.02	.02	.01	.01	.01
1515.00	.01	.01	.01	.01	.01
1520.00	.01	.01	.00	.00	.00
1525.00	.00	.00	.00	.00	.00
1530.00	.00	.00			

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 7.62

Name.... OFFSITE NON-DET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 3798.00 min Rain Depth = 3.1000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - OFFSITE NON-DET 2

Tc = 11.70 min

Drainage Area = 4.720 acres Runoff CN= 74

```
=====
Computational Time Increment    =    1.560 min
Computed Peak Time               =    722.28 min
Computed Peak Flow               =      5.84 cfs
```

```
Time Increment for HYG File     =      1.00 min
Peak Time, Interpolated Output =    722.00 min
Peak Flow, Interpolated Output =      5.83 cfs
=====
```

DRAINAGE AREA

ID:OFFSITE NON-DET

CN = 74
Area = 4.720 acres
S = 3.5135 in
0.2S = .7027 in

Cumulative Runoff

.9723 in
.382 ac-ft

HYG Volume... .382 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 11.700 min (ID: OFFSITE NON-DET)
Computational Incr, Tm = 1.560 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 27.43 cfs
Unit peak time Tp = 7.800 min
Unit receding limb, Tr = 31.200 min
Total unit time, Tb = 39.000 min

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.63
Name.... OFFSITE NON-DET Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm
Duration = 3798.00 min Rain Depth = 3.1000 in
Rain Dir = F:\PJJ HM AsBuilt\
Rain File -ID = - Type II 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\PJJ HM AsBuilt\
HYG File - ID = - OFFSITE NON-DET 2
Tc = 11.70 min
Drainage Area = 4.720 acres Runoff CN= 74
Calc.Increment= 1.560 min Out.Incr.= 1.00 min
HYG Volume = .382 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time | Output Time increment = 1.00 min

min	Time on left represents time for first value in each row.				
658.00	.00	.00	.00	.00	.00
663.00	.01	.01	.01	.01	.01
668.00	.01	.02	.02	.02	.03
673.00	.03	.03	.03	.04	.04
678.00	.05	.05	.05	.06	.06
683.00	.07	.07	.08	.08	.09
688.00	.09	.10	.10	.11	.12
693.00	.13	.15	.17	.20	.23
698.00	.26	.31	.37	.44	.51
703.00	.61	.71	.83	.99	1.15
708.00	1.34	1.56	1.81	2.12	2.49
713.00	2.90	3.39	3.87	4.36	4.79
718.00	5.17	5.49	5.68	5.81	5.83
723.00	5.73	5.54	5.21	4.82	4.39
728.00	3.94	3.52	3.11	2.78	2.48
733.00	2.24	2.06	1.89	1.76	1.64
738.00	1.54	1.46	1.39	1.32	1.27
743.00	1.22	1.17	1.13	1.09	1.05
748.00	1.01	.98	.94	.91	.88
753.00	.86	.83	.80	.78	.76
758.00	.74	.73	.71	.70	.68
763.00	.67	.66	.65	.64	.64
768.00	.63	.62	.61	.61	.60
773.00	.59	.59	.58	.57	.57
778.00	.56	.56	.55	.54	.54
783.00	.53	.52	.52	.51	.51
788.00	.50	.50	.49	.49	.48
793.00	.48	.48	.47	.47	.47
798.00	.46	.46	.45	.45	.45
803.00	.44	.44	.44	.43	.43

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.64

Name.... OFFSITE NON-DET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
808.00	.43	.42	.42	.42	.41
813.00	.41	.41	.40	.40	.40
818.00	.39	.39	.39	.38	.38
823.00	.38	.38	.37	.37	.37
828.00	.37	.36	.36	.36	.36

833.00	.35	.35	.35	.35	.34
838.00	.34	.34	.33	.33	.33
843.00	.33	.33	.32	.32	.32
848.00	.32	.32	.31	.31	.31
853.00	.31	.31	.31	.31	.31
858.00	.30	.30	.30	.30	.30
863.00	.30	.30	.30	.30	.30
868.00	.30	.29	.29	.29	.29
873.00	.29	.29	.29	.29	.29
878.00	.29	.29	.28	.28	.28
883.00	.28	.28	.28	.28	.28
888.00	.28	.28	.28	.28	.27
893.00	.27	.27	.27	.27	.27
898.00	.27	.27	.27	.27	.27
903.00	.26	.26	.26	.26	.26
908.00	.26	.26	.26	.26	.26
913.00	.26	.25	.25	.25	.25
918.00	.25	.25	.25	.25	.25
923.00	.25	.25	.24	.24	.24
928.00	.24	.24	.24	.24	.24
933.00	.24	.24	.24	.23	.23
938.00	.23	.23	.23	.23	.23
943.00	.23	.23	.23	.23	.22
948.00	.22	.22	.22	.22	.22
953.00	.22	.22	.22	.22	.21
958.00	.21	.21	.21	.21	.21
963.00	.21	.21	.21	.21	.21
968.00	.21	.20	.20	.20	.20
973.00	.20	.20	.20	.20	.20
978.00	.20	.20	.20	.20	.20
983.00	.20	.20	.20	.20	.20
988.00	.20	.20	.20	.20	.20
993.00	.20	.20	.19	.19	.19
998.00	.19	.19	.19	.19	.19
1003.00	.19	.19	.19	.19	.19
1008.00	.19	.19	.19	.19	.19
1013.00	.19	.19	.19	.19	.19
1018.00	.19	.19	.19	.19	.19
1023.00	.19	.19	.19	.18	.18
1028.00	.18	.18	.18	.18	.18

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.65

Name.... OFFSITE NON-DET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBUILT\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1033.00	.18	.18	.18	.18	.18
1038.00	.18	.18	.18	.18	.18
1043.00	.18	.18	.18	.18	.18
1048.00	.18	.18	.18	.18	.18
1053.00	.18	.18	.18	.17	.17
1058.00	.17	.17	.17	.17	.17
1063.00	.17	.17	.17	.17	.17
1068.00	.17	.17	.17	.17	.17
1073.00	.17	.17	.17	.17	.17
1078.00	.17	.17	.17	.17	.17
1083.00	.17	.17	.16	.16	.16
1088.00	.16	.16	.16	.16	.16
1093.00	.16	.16	.16	.16	.16
1098.00	.16	.16	.16	.16	.16
1103.00	.16	.16	.16	.16	.16
1108.00	.16	.16	.16	.16	.16
1113.00	.16	.15	.15	.15	.15
1118.00	.15	.15	.15	.15	.15
1123.00	.15	.15	.15	.15	.15
1128.00	.15	.15	.15	.15	.15
1133.00	.15	.15	.15	.15	.15
1138.00	.15	.15	.15	.15	.14
1143.00	.14	.14	.14	.14	.14
1148.00	.14	.14	.14	.14	.14
1153.00	.14	.14	.14	.14	.14
1158.00	.14	.14	.14	.14	.14
1163.00	.14	.14	.14	.14	.14
1168.00	.14	.14	.13	.13	.13
1173.00	.13	.13	.13	.13	.13
1178.00	.13	.13	.13	.13	.13
1183.00	.13	.13	.13	.13	.13
1188.00	.13	.13	.13	.13	.13
1193.00	.13	.13	.13	.13	.13
1198.00	.12	.12	.12	.12	.12
1203.00	.12	.12	.12	.12	.12
1208.00	.12	.12	.12	.12	.12
1213.00	.12	.12	.12	.12	.12
1218.00	.12	.12	.12	.12	.12
1223.00	.12	.12	.12	.12	.12
1228.00	.12	.12	.12	.12	.12
1233.00	.12	.12	.12	.12	.12
1238.00	.12	.12	.12	.12	.12
1243.00	.12	.12	.12	.12	.12
1248.00	.12	.12	.12	.12	.12
1253.00	.12	.12	.12	.12	.12

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.66

Name.... OFFSITE NON-DET Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1258.00	.12	.12	.12	.12	.12
1263.00	.12	.12	.12	.12	.12
1268.00	.12	.12	.12	.12	.12
1273.00	.12	.12	.12	.12	.12
1278.00	.12	.12	.12	.12	.12
1283.00	.12	.12	.12	.12	.12
1288.00	.12	.12	.12	.12	.12
1293.00	.12	.12	.12	.12	.12
1298.00	.11	.11	.11	.11	.11
1303.00	.11	.11	.11	.11	.11
1308.00	.11	.11	.11	.11	.11
1313.00	.11	.11	.11	.11	.11
1318.00	.11	.11	.11	.11	.11
1323.00	.11	.11	.11	.11	.11
1328.00	.11	.11	.11	.11	.11
1333.00	.11	.11	.11	.11	.11
1338.00	.11	.11	.11	.11	.11
1343.00	.11	.11	.11	.11	.11
1348.00	.11	.11	.11	.11	.11
1353.00	.11	.11	.11	.11	.11
1358.00	.11	.11	.11	.11	.11
1363.00	.11	.11	.11	.11	.11
1368.00	.11	.11	.11	.11	.11
1373.00	.11	.11	.11	.11	.11
1378.00	.11	.11	.11	.11	.11
1383.00	.11	.11	.11	.11	.11
1388.00	.11	.11	.11	.11	.11
1393.00	.11	.11	.11	.11	.11
1398.00	.11	.11	.11	.11	.11
1403.00	.11	.11	.11	.11	.11
1408.00	.11	.11	.11	.11	.11
1413.00	.11	.11	.11	.11	.11
1418.00	.11	.11	.11	.11	.11
1423.00	.11	.11	.11	.11	.11
1428.00	.11	.11	.11	.11	.11
1433.00	.11	.11	.11	.11	.11
1438.00	.11	.11	.11	.10	.10
1443.00	.10	.09	.09	.08	.07
1448.00	.06	.05	.04	.03	.02

1453.00		.02	.02	.01	.01	.01
1458.00		.01	.01	.00	.00	.00
1463.00		.00	.00	.00	.00	.00

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 7.67

Name.... OFFSITE NON-DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm

Duration = 3798.00 min Rain Depth = 5.6700 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - OFFSITE NON-DET 10 yr

Tc = 11.70 min

Drainage Area = 4.720 acres Runoff CN= 74

```
=====
Computational Time Increment    =    1.560 min
Computed Peak Time               =    720.72 min
Computed Peak Flow               =    18.12 cfs
```

```
Time Increment for HYG File     =    1.00 min
Peak Time, Interpolated Output =    721.00 min
Peak Flow, Interpolated Output =    18.06 cfs
=====
```

DRAINAGE AREA

ID:OFFSITE NON-DET

CN = 74

Area = 4.720 acres

S = 3.5135 in

0.2S = .7027 in

Cumulative Runoff

2.9094 in

1.144 ac-ft

HYG Volume... 1.144 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 11.700 min (ID: OFFSITE NON-DET)
 Computational Incr, Tm = 1.560 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
 K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))
 Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 27.43 cfs
 Unit peak time Tp = 7.800 min
 Unit receding limb, Tr = 31.200 min
 Total unit time, Tb = 39.000 min

S/N: C21F01C070CE Bowers Engineering Inc
 PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.68

Name.... OFFSITE NON-DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 10 year storm

Duration = 3798.00 min Rain Depth = 5.6700 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - OFFSITE NON-DET 10 yr

Tc = 11.70 min

Drainage Area = 4.720 acres Runoff CN= 74

Calc.Increment= 1.560 min Out.Incr.= 1.00 min

HYG Volume = 1.144 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
498.00	.00	.00	.00	.00	.00
503.00	.00	.00	.01	.01	.01
508.00	.01	.01	.01	.01	.01
513.00	.01	.01	.01	.02	.02
518.00	.02	.02	.02	.02	.02
523.00	.02	.02	.03	.03	.03
528.00	.03	.03	.03	.03	.04
533.00	.04	.04	.04	.04	.04
538.00	.04	.05	.05	.05	.05
543.00	.05	.05	.05	.06	.06
548.00	.06	.06	.06	.06	.06

553.00	.07	.07	.07	.07	.07
558.00	.07	.07	.07	.08	.08
563.00	.08	.08	.08	.08	.08
568.00	.09	.09	.09	.09	.09
573.00	.09	.09	.09	.10	.10
578.00	.10	.10	.10	.10	.11
583.00	.11	.11	.11	.11	.12
588.00	.12	.12	.12	.13	.13
593.00	.13	.13	.14	.14	.14
598.00	.14	.15	.15	.15	.15
603.00	.16	.16	.16	.17	.17
608.00	.17	.18	.18	.18	.19
613.00	.19	.19	.20	.20	.20
618.00	.21	.21	.22	.22	.22
623.00	.23	.23	.24	.24	.25
628.00	.25	.25	.26	.26	.27
633.00	.27	.28	.28	.29	.29
638.00	.30	.31	.31	.32	.32
643.00	.33	.34	.34	.35	.36

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.69

Name.... OFFSITE NON-DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
648.00	.37	.37	.38	.39	.40
653.00	.40	.41	.42	.43	.44
658.00	.45	.45	.46	.47	.48
663.00	.49	.50	.51	.52	.53
668.00	.55	.56	.57	.59	.60
673.00	.62	.64	.65	.67	.69
678.00	.71	.73	.75	.77	.79
683.00	.81	.83	.85	.87	.89
688.00	.92	.94	.97	1.00	1.05
693.00	1.11	1.20	1.31	1.44	1.60
698.00	1.80	2.02	2.31	2.63	2.98
703.00	3.39	3.82	4.29	4.86	5.46
708.00	6.11	6.85	7.66	8.61	9.74
713.00	10.98	12.36	13.71	15.04	16.11
718.00	17.01	17.67	17.96	18.06	17.84
723.00	17.29	16.53	15.39	14.12	12.77
728.00	11.41	10.13	8.91	7.91	7.03
733.00	6.32	5.76	5.27	4.87	4.53

738.00	4.23	3.99	3.78	3.58	3.42
743.00	3.27	3.13	3.01	2.90	2.79
748.00	2.69	2.59	2.50	2.41	2.33
753.00	2.25	2.18	2.11	2.05	1.99
758.00	1.94	1.89	1.85	1.81	1.78
763.00	1.75	1.72	1.70	1.67	1.65
768.00	1.63	1.61	1.59	1.57	1.55
773.00	1.53	1.52	1.50	1.48	1.46
778.00	1.45	1.43	1.41	1.39	1.38
783.00	1.36	1.35	1.33	1.32	1.30
788.00	1.29	1.27	1.26	1.25	1.24
793.00	1.23	1.22	1.21	1.20	1.19
798.00	1.18	1.17	1.16	1.15	1.14
803.00	1.13	1.12	1.11	1.10	1.09
808.00	1.08	1.07	1.06	1.05	1.05
813.00	1.04	1.03	1.02	1.01	1.00
818.00	.99	.99	.98	.97	.96
823.00	.96	.95	.94	.93	.93
828.00	.92	.91	.91	.90	.89
833.00	.89	.88	.87	.87	.86
838.00	.85	.85	.84	.83	.83
843.00	.82	.81	.81	.80	.80
848.00	.79	.79	.78	.78	.78
853.00	.77	.77	.77	.76	.76
858.00	.76	.76	.75	.75	.75
863.00	.75	.74	.74	.74	.74
868.00	.73	.73	.73	.73	.73

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.70

Name.... OFFSITE NON-DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
873.00	.72	.72	.72	.72	.71
878.00	.71	.71	.71	.70	.70
883.00	.70	.70	.70	.69	.69
888.00	.69	.69	.68	.68	.68
893.00	.68	.67	.67	.67	.67
898.00	.67	.66	.66	.66	.66
903.00	.65	.65	.65	.65	.64
908.00	.64	.64	.64	.63	.63
913.00	.63	.63	.63	.62	.62
918.00	.62	.62	.61	.61	.61

923.00	.61	.60	.60	.60	.60
928.00	.59	.59	.59	.59	.59
933.00	.58	.58	.58	.58	.57
938.00	.57	.57	.57	.56	.56
943.00	.56	.56	.55	.55	.55
948.00	.55	.54	.54	.54	.54
953.00	.53	.53	.53	.53	.52
958.00	.52	.52	.52	.51	.51
963.00	.51	.51	.51	.50	.50
968.00	.50	.50	.50	.50	.49
973.00	.49	.49	.49	.49	.49
978.00	.49	.49	.49	.49	.48
983.00	.48	.48	.48	.48	.48
988.00	.48	.48	.48	.48	.48
993.00	.48	.47	.47	.47	.47
998.00	.47	.47	.47	.47	.47
1003.00	.47	.47	.47	.46	.46
1008.00	.46	.46	.46	.46	.46
1013.00	.46	.46	.46	.46	.46
1018.00	.45	.45	.45	.45	.45
1023.00	.45	.45	.45	.45	.45
1028.00	.45	.44	.44	.44	.44
1033.00	.44	.44	.44	.44	.44
1038.00	.44	.44	.44	.43	.43
1043.00	.43	.43	.43	.43	.43
1048.00	.43	.43	.43	.43	.43
1053.00	.42	.42	.42	.42	.42
1058.00	.42	.42	.42	.42	.42
1063.00	.42	.41	.41	.41	.41
1068.00	.41	.41	.41	.41	.41
1073.00	.41	.41	.41	.40	.40
1078.00	.40	.40	.40	.40	.40
1083.00	.40	.40	.40	.40	.39
1088.00	.39	.39	.39	.39	.39
1093.00	.39	.39	.39	.39	.39

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.71

Name.... OFFSITE NON-DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1098.00	.39	.38	.38	.38	.38
1103.00	.38	.38	.38	.38	.38

1108.00	.38	.38	.37	.37	.37
1113.00	.37	.37	.37	.37	.37
1118.00	.37	.37	.37	.36	.36
1123.00	.36	.36	.36	.36	.36
1128.00	.36	.36	.36	.36	.36
1133.00	.35	.35	.35	.35	.35
1138.00	.35	.35	.35	.35	.35
1143.00	.35	.34	.34	.34	.34
1148.00	.34	.34	.34	.34	.34
1153.00	.34	.34	.33	.33	.33
1158.00	.33	.33	.33	.33	.33
1163.00	.33	.33	.33	.33	.32
1168.00	.32	.32	.32	.32	.32
1173.00	.32	.32	.32	.32	.32
1178.00	.31	.31	.31	.31	.31
1183.00	.31	.31	.31	.31	.31
1188.00	.31	.30	.30	.30	.30
1193.00	.30	.30	.30	.30	.30
1198.00	.30	.30	.29	.29	.29
1203.00	.29	.29	.29	.29	.29
1208.00	.29	.29	.29	.29	.29
1213.00	.29	.29	.29	.29	.29
1218.00	.29	.29	.28	.28	.28
1223.00	.28	.28	.28	.28	.28
1228.00	.28	.28	.28	.28	.28
1233.00	.28	.28	.28	.28	.28
1238.00	.28	.28	.28	.28	.28
1243.00	.28	.28	.28	.28	.28
1248.00	.28	.28	.28	.28	.28
1253.00	.28	.28	.28	.28	.28
1258.00	.28	.28	.28	.28	.28
1263.00	.28	.28	.28	.28	.28
1268.00	.28	.28	.28	.28	.28
1273.00	.28	.28	.28	.28	.28
1278.00	.28	.27	.27	.27	.27
1283.00	.27	.27	.27	.27	.27
1288.00	.27	.27	.27	.27	.27
1293.00	.27	.27	.27	.27	.27
1298.00	.27	.27	.27	.27	.27
1303.00	.27	.27	.27	.27	.27
1308.00	.27	.27	.27	.27	.27
1313.00	.27	.27	.27	.27	.27
1318.00	.27	.27	.27	.27	.27

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... OFFSITE NON-DET Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)						
Time min	Output Time increment = 1.00 min					
	Time on left represents time for first value in each row.					
1323.00	.27	.27	.27	.27	.27	.27
1328.00	.27	.27	.27	.27	.27	.27
1333.00	.27	.27	.27	.27	.27	.27
1338.00	.26	.26	.26	.26	.26	.26
1343.00	.26	.26	.26	.26	.26	.26
1348.00	.26	.26	.26	.26	.26	.26
1353.00	.26	.26	.26	.26	.26	.26
1358.00	.26	.26	.26	.26	.26	.26
1363.00	.26	.26	.26	.26	.26	.26
1368.00	.26	.26	.26	.26	.26	.26
1373.00	.26	.26	.26	.26	.26	.26
1378.00	.26	.26	.26	.26	.26	.26
1383.00	.26	.26	.26	.26	.26	.26
1388.00	.26	.26	.26	.26	.26	.26
1393.00	.26	.26	.26	.25	.25	.25
1398.00	.25	.25	.25	.25	.25	.25
1403.00	.25	.25	.25	.25	.25	.25
1408.00	.25	.25	.25	.25	.25	.25
1413.00	.25	.25	.25	.25	.25	.25
1418.00	.25	.25	.25	.25	.25	.25
1423.00	.25	.25	.25	.25	.25	.25
1428.00	.25	.25	.25	.25	.25	.25
1433.00	.25	.25	.25	.25	.25	.25
1438.00	.25	.25	.25	.24	.24	.24
1443.00	.23	.22	.20	.18	.15	.15
1448.00	.13	.11	.09	.07	.06	.06
1453.00	.05	.04	.03	.03	.02	.02
1458.00	.02	.01	.01	.01	.01	.01
1463.00	.01	.00	.00	.00	.00	.00
1468.00	.00	.00	.00	.00	.00	.00

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 7.73

Name.... OFFSITE NON-DET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 3798.00 min Rain Depth = 9.2000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr
Unit Hyd Type = Default Curvilinear
HYG Dir = F:\PJJ HM AsBuilt\
HYG File - ID = - OFFSITE NON-DET 100 yr
Tc = 11.70 min
Drainage Area = 4.720 acres Runoff CN= 74

=====
Computational Time Increment = 1.560 min
Computed Peak Time = 720.72 min
Computed Peak Flow = 36.88 cfs

Time Increment for HYG File = 1.00 min
Peak Time, Interpolated Output = 720.00 min
Peak Flow, Interpolated Output = 36.75 cfs
=====

DRAINAGE AREA

ID:OFFSITE NON-DET

CN = 74
Area = 4.720 acres
S = 3.5135 in
0.2S = .7027 in

Cumulative Runoff

6.0116 in
2.365 ac-ft

HYG Volume... 2.365 ac-ft (area under HYG curve)

***** SCS UNIT HYDROGRAPH PARAMETERS *****

Time Concentration, Tc = 11.700 min (ID: OFFSITE NON-DET)
Computational Incr, Tm = 1.560 min = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)
K = 483.43/645.333, K = .7491 (also, $K = 2/(1+(Tr/Tp))$)
Receding/Rising, Tr/Tp = 1.6698 (solved from $K = .7491$)

Unit peak, qp = 27.43 cfs
Unit peak time Tp = 7.800 min
Unit receding limb, Tr = 31.200 min
Total unit time, Tb = 39.000 min

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.74

Name.... OFFSITE NON-DET Tag: 100 yr Event: 100 yr
 File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
 Storm... Type II 24hr Tag: 100 yr

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 3798.00 min Rain Depth = 9.2000 in

Rain Dir = F:\PJJ HM AsBuilt\

Rain File -ID = - Type II 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = F:\PJJ HM AsBuilt\

HYG File - ID = - OFFSITE NON-DET 100 yr

Tc = 11.70 min

Drainage Area = 4.720 acres Runoff CN= 74

Calc.Increment= 1.560 min Out.Incr.= 1.00 min

HYG Volume = 2.365 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
354.00	.00	.00	.00	.00	.00
359.00	.00	.00	.01	.01	.01
364.00	.01	.01	.01	.01	.01
369.00	.01	.02	.02	.02	.02
374.00	.02	.02	.02	.02	.03
379.00	.03	.03	.03	.03	.03
384.00	.03	.03	.04	.04	.04
389.00	.04	.04	.04	.04	.05
394.00	.05	.05	.05	.05	.05
399.00	.05	.05	.06	.06	.06
404.00	.06	.06	.06	.06	.07
409.00	.07	.07	.07	.07	.07
414.00	.07	.07	.08	.08	.08
419.00	.08	.08	.08	.08	.09
424.00	.09	.09	.09	.09	.09
429.00	.09	.10	.10	.10	.10
434.00	.10	.10	.11	.11	.11
439.00	.11	.11	.11	.11	.12
444.00	.12	.12	.12	.12	.12
449.00	.12	.13	.13	.13	.13
454.00	.13	.13	.13	.14	.14
459.00	.14	.14	.14	.14	.15
464.00	.15	.15	.15	.15	.15
469.00	.16	.16	.16	.16	.16
474.00	.16	.16	.17	.17	.17
479.00	.17	.17	.17	.18	.18
484.00	.18	.18	.18	.19	.19
489.00	.19	.19	.19	.20	.20

494.00		.20	.20	.21	.21	.21
499.00		.22	.22	.22	.23	.23

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.75
Name.... OFFSITE NON-DET Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
504.00	.23	.23	.24	.24	.24	
509.00	.25	.25	.25	.26	.26	
514.00	.26	.27	.27	.27	.28	
519.00	.28	.29	.29	.29	.30	
524.00	.30	.30	.31	.31	.32	
529.00	.32	.32	.33	.33	.33	
534.00	.34	.34	.35	.35	.36	
539.00	.36	.36	.37	.37	.38	
544.00	.38	.38	.39	.39	.39	
549.00	.40	.40	.40	.41	.41	
554.00	.41	.42	.42	.42	.42	
559.00	.43	.43	.43	.43	.43	
564.00	.44	.44	.44	.44	.45	
569.00	.45	.45	.45	.45	.46	
574.00	.46	.46	.47	.47	.47	
579.00	.48	.48	.49	.49	.50	
584.00	.50	.51	.51	.52	.53	
589.00	.53	.54	.55	.55	.56	
594.00	.57	.57	.58	.59	.59	
599.00	.60	.61	.61	.62	.63	
604.00	.64	.64	.65	.66	.67	
609.00	.68	.68	.69	.70	.71	
614.00	.72	.73	.74	.75	.76	
619.00	.77	.78	.79	.80	.81	
624.00	.82	.84	.85	.86	.87	
629.00	.88	.89	.90	.91	.93	
634.00	.94	.95	.96	.98	.99	
639.00	1.01	1.02	1.04	1.05	1.07	
644.00	1.09	1.10	1.12	1.14	1.16	
649.00	1.17	1.19	1.21	1.23	1.25	
654.00	1.27	1.29	1.31	1.33	1.35	
659.00	1.37	1.39	1.41	1.43	1.45	
664.00	1.48	1.50	1.53	1.56	1.59	
669.00	1.62	1.65	1.69	1.73	1.76	
674.00	1.80	1.84	1.89	1.93	1.98	

679.00	2.02	2.07	2.11	2.16	2.21
684.00	2.25	2.30	2.35	2.40	2.45
689.00	2.50	2.56	2.63	2.75	2.90
694.00	3.11	3.39	3.71	4.10	4.56
699.00	5.09	5.77	6.52	7.33	8.24
704.00	9.22	10.26	11.49	12.79	14.18
709.00	15.71	17.37	19.29	21.55	24.02
714.00	26.72	29.32	31.83	33.77	35.35
719.00	36.43	36.75	36.69	36.03	34.71
724.00	33.02	30.63	28.00	25.23	22.50

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... OFFSITE NON-DET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
729.00	19.92	17.48	15.50	13.74	12.32
734.00	11.20	10.22	9.42	8.75	8.15
739.00	7.67	7.24	6.86	6.54	6.24
744.00	5.97	5.73	5.51	5.30	5.10
749.00	4.90	4.72	4.56	4.40	4.25
754.00	4.11	3.98	3.86	3.75	3.65
759.00	3.57	3.49	3.41	3.35	3.29
764.00	3.24	3.19	3.14	3.10	3.06
769.00	3.02	2.98	2.94	2.91	2.87
774.00	2.84	2.80	2.77	2.74	2.70
779.00	2.67	2.64	2.61	2.57	2.54
784.00	2.51	2.48	2.45	2.43	2.40
789.00	2.38	2.35	2.33	2.31	2.29
794.00	2.27	2.25	2.23	2.21	2.19
799.00	2.17	2.15	2.14	2.12	2.10
804.00	2.08	2.06	2.05	2.03	2.01
809.00	1.99	1.98	1.96	1.94	1.92
814.00	1.91	1.89	1.87	1.86	1.84
819.00	1.83	1.81	1.80	1.78	1.77
824.00	1.76	1.74	1.73	1.72	1.70
829.00	1.69	1.68	1.67	1.65	1.64
834.00	1.63	1.61	1.60	1.59	1.58
839.00	1.56	1.55	1.54	1.53	1.52
844.00	1.50	1.49	1.48	1.47	1.46
849.00	1.46	1.45	1.44	1.43	1.43
854.00	1.42	1.41	1.41	1.40	1.40
859.00	1.39	1.39	1.38	1.38	1.38

864.00	1.37	1.37	1.36	1.36	1.35
869.00	1.35	1.34	1.34	1.34	1.33
874.00	1.33	1.32	1.32	1.31	1.31
879.00	1.30	1.30	1.30	1.29	1.29
884.00	1.28	1.28	1.27	1.27	1.26
889.00	1.26	1.26	1.25	1.25	1.24
894.00	1.24	1.23	1.23	1.23	1.22
899.00	1.22	1.21	1.21	1.20	1.20
904.00	1.19	1.19	1.19	1.18	1.18
909.00	1.17	1.17	1.16	1.16	1.15
914.00	1.15	1.15	1.14	1.14	1.13
919.00	1.13	1.12	1.12	1.11	1.11
924.00	1.11	1.10	1.10	1.09	1.09
929.00	1.08	1.08	1.07	1.07	1.07
934.00	1.06	1.06	1.05	1.05	1.04
939.00	1.04	1.03	1.03	1.02	1.02
944.00	1.02	1.01	1.01	1.00	1.00
949.00	.99	.99	.98	.98	.98

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... OFFSITE NON-DET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
954.00	.97	.97	.96	.96	.95
959.00	.95	.94	.94	.94	.93
964.00	.93	.92	.92	.92	.91
969.00	.91	.91	.90	.90	.90
974.00	.90	.90	.89	.89	.89
979.00	.89	.89	.88	.88	.88
984.00	.88	.88	.88	.87	.87
989.00	.87	.87	.87	.87	.87
994.00	.86	.86	.86	.86	.86
999.00	.86	.85	.85	.85	.85
1004.00	.85	.85	.84	.84	.84
1009.00	.84	.84	.84	.84	.83
1014.00	.83	.83	.83	.83	.83
1019.00	.82	.82	.82	.82	.82
1024.00	.82	.81	.81	.81	.81
1029.00	.81	.81	.81	.80	.80
1034.00	.80	.80	.80	.80	.79
1039.00	.79	.79	.79	.79	.79
1044.00	.78	.78	.78	.78	.78

1049.00	.78	.77	.77	.77	.77
1054.00	.77	.77	.77	.76	.76
1059.00	.76	.76	.76	.76	.75
1064.00	.75	.75	.75	.75	.75
1069.00	.74	.74	.74	.74	.74
1074.00	.74	.73	.73	.73	.73
1079.00	.73	.73	.73	.72	.72
1084.00	.72	.72	.72	.72	.71
1089.00	.71	.71	.71	.71	.71
1094.00	.70	.70	.70	.70	.70
1099.00	.70	.69	.69	.69	.69
1104.00	.69	.69	.68	.68	.68
1109.00	.68	.68	.68	.68	.67
1114.00	.67	.67	.67	.67	.67
1119.00	.66	.66	.66	.66	.66
1124.00	.66	.65	.65	.65	.65
1129.00	.65	.65	.64	.64	.64
1134.00	.64	.64	.64	.63	.63
1139.00	.63	.63	.63	.63	.62
1144.00	.62	.62	.62	.62	.62
1149.00	.62	.61	.61	.61	.61
1154.00	.61	.61	.60	.60	.60
1159.00	.60	.60	.60	.59	.59
1164.00	.59	.59	.59	.59	.58
1169.00	.58	.58	.58	.58	.58
1174.00	.57	.57	.57	.57	.57

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 7.78
Name.... OFFSITE NON-DET Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1179.00	.57	.56	.56	.56	.56
1184.00	.56	.56	.56	.55	.55
1189.00	.55	.55	.55	.54	.54
1194.00	.54	.54	.54	.54	.54
1199.00	.53	.53	.53	.53	.53
1204.00	.53	.52	.52	.52	.52
1209.00	.52	.52	.52	.52	.52
1214.00	.52	.52	.52	.51	.51
1219.00	.51	.51	.51	.51	.51
1224.00	.51	.51	.51	.51	.51
1229.00	.51	.51	.51	.51	.51

1234.00	.51	.51	.51	.51	.51
1239.00	.51	.51	.51	.51	.51
1244.00	.51	.51	.51	.51	.50
1249.00	.50	.50	.50	.50	.50
1254.00	.50	.50	.50	.50	.50
1259.00	.50	.50	.50	.50	.50
1264.00	.50	.50	.50	.50	.50
1269.00	.50	.50	.50	.50	.50
1274.00	.50	.50	.50	.50	.50
1279.00	.49	.49	.49	.49	.49
1284.00	.49	.49	.49	.49	.49
1289.00	.49	.49	.49	.49	.49
1294.00	.49	.49	.49	.49	.49
1299.00	.49	.49	.49	.49	.49
1304.00	.49	.49	.49	.49	.49
1309.00	.49	.48	.48	.48	.48
1314.00	.48	.48	.48	.48	.48
1319.00	.48	.48	.48	.48	.48
1324.00	.48	.48	.48	.48	.48
1329.00	.48	.48	.48	.48	.48
1334.00	.48	.48	.48	.48	.48
1339.00	.48	.48	.48	.47	.47
1344.00	.47	.47	.47	.47	.47
1349.00	.47	.47	.47	.47	.47
1354.00	.47	.47	.47	.47	.47
1359.00	.47	.47	.47	.47	.47
1364.00	.47	.47	.47	.47	.47
1369.00	.47	.47	.47	.47	.46
1374.00	.46	.46	.46	.46	.46
1379.00	.46	.46	.46	.46	.46
1384.00	.46	.46	.46	.46	.46
1389.00	.46	.46	.46	.46	.46
1394.00	.46	.46	.46	.46	.46
1399.00	.46	.46	.46	.46	.46

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 7.79

Name.... OFFSITE NON-DET Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1404.00	.46	.45	.45	.45	.45
1409.00	.45	.45	.45	.45	.45
1414.00	.45	.45	.45	.45	.45

1419.00		.45	.45	.45	.45	.45
1424.00		.45	.45	.45	.45	.45
1429.00		.45	.45	.45	.45	.45
1434.00		.45	.45	.44	.44	.44
1439.00		.44	.44	.44	.43	.42
1444.00		.39	.36	.32	.28	.24
1449.00		.20	.16	.13	.10	.08
1454.00		.07	.06	.05	.04	.03
1459.00		.02	.02	.02	.01	.01
1464.00		.01	.01	.01	.00	.00
1469.00		.00	.00	.00	.00	.00

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

Page 8.01

Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

SUMMARY FOR HYDROGRAPH ADDITION
at Node: OUTFALL

HYG Directory: F:\PJJ HM AsBuilt\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ADDLINK 30	HM UNDET		HM UNDET	2
ROUTE 10	MAIN DET	IN	ROUTE 10	2

INFLOWS TO: OUTFALL

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	HM UNDET	2	.710	723.00	10.43
	ROUTE 10	2	4.178	738.00	27.22

TOTAL FLOW INTO: OUTFALL

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	OUTFALL	2	4.888	734.00	30.98

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

Name.... OUTFALL

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

Page 8.02

Event: 2 yr

TOTAL NODE INFLOW...

HYG file =

HYG ID = OUTFALL

HYG Tag = 2

Peak Discharge = 30.98 cfs

Time to Peak = 734.00 min

HYG Volume = 4.888 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
537.00	.00	.00	.00	.00	.00
542.00	.01	.01	.01	.01	.01
547.00	.02	.02	.02	.02	.03
552.00	.03	.03	.03	.04	.04
557.00	.04	.05	.05	.05	.06
562.00	.06	.06	.07	.07	.07
567.00	.07	.07	.08	.08	.08
572.00	.08	.08	.08	.08	.09
577.00	.09	.09	.09	.09	.09
582.00	.10	.10	.10	.10	.10
587.00	.11	.11	.11	.11	.12
592.00	.12	.12	.12	.13	.13
597.00	.13	.13	.14	.14	.14
602.00	.14	.14	.15	.15	.15
607.00	.15	.15	.16	.16	.16
612.00	.16	.17	.17	.17	.18
617.00	.18	.18	.19	.19	.19
622.00	.20	.20	.20	.20	.21
627.00	.21	.21	.22	.22	.22
632.00	.23	.23	.23	.24	.24
637.00	.24	.25	.25	.25	.26
642.00	.26	.27	.27	.28	.28
647.00	.29	.29	.30	.30	.31
652.00	.31	.32	.33	.33	.34
657.00	.34	.35	.36	.36	.37
662.00	.38	.39	.39	.40	.41
667.00	.42	.43	.43	.44	.45
672.00	.46	.47	.48	.49	.50
677.00	.51	.52	.54	.55	.56
682.00	.57	.59	.60	.62	.63

687.00 | .64 .66 .67 .69 .71

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 8.03

Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
692.00	.73	.76	.79	.84	.90
697.00	.98	1.06	1.17	1.29	1.44
702.00	1.60	1.81	2.02	2.28	2.55
707.00	2.86	3.21	3.60	4.04	4.53
712.00	5.10	5.73	6.43	7.17	7.90
717.00	8.65	9.30	9.91	10.33	10.71
722.00	10.83	14.86	18.43	21.49	23.93
727.00	25.96	27.49	28.70	29.60	30.23
732.00	30.65	30.86	30.98	30.97	30.92
737.00	30.78	30.59	30.33	30.02	29.66
742.00	29.26	28.82	28.35	27.85	27.32
747.00	26.77	26.20	25.60	24.99	24.38
752.00	23.76	23.14	22.53	21.93	21.34
757.00	20.75	20.17	19.62	19.07	18.54
762.00	18.02	17.52	17.03	16.55	16.08
767.00	15.62	15.19	14.77	14.37	13.99
772.00	13.62	13.26	12.92	12.59	12.28
777.00	11.98	11.69	11.41	11.15	10.89
782.00	10.65	10.41	10.19	9.97	9.76
787.00	9.56	9.37	9.18	9.01	8.84
792.00	8.67	8.52	8.37	8.22	8.08
797.00	7.94	7.81	7.68	7.56	7.44
802.00	7.32	7.21	7.11	7.00	6.91
807.00	6.81	6.72	6.63	6.54	6.46
812.00	6.38	6.30	6.23	6.15	6.08
817.00	6.01	5.94	5.88	5.82	5.75
822.00	5.69	5.64	5.58	5.52	5.47
827.00	5.42	5.37	5.32	5.27	5.22
832.00	5.17	5.13	5.08	5.04	5.00
837.00	4.95	4.91	4.87	4.83	4.79
842.00	4.75	4.71	4.67	4.63	4.60
847.00	4.56	4.52	4.49	4.46	4.42
852.00	4.39	4.36	4.33	4.30	4.27
857.00	4.24	4.22	4.19	4.16	4.14
862.00	4.12	4.09	4.07	4.05	4.03
867.00	4.01	3.99	3.97	3.95	3.93

872.00	3.91	3.89	3.88	3.86	3.84
877.00	3.83	3.81	3.79	3.78	3.76
882.00	3.75	3.74	3.72	3.71	3.69
887.00	3.68	3.67	3.65	3.64	3.63
892.00	3.61	3.60	3.59	3.57	3.56
897.00	3.55	3.54	3.53	3.51	3.50
902.00	3.49	3.48	3.46	3.45	3.44
907.00	3.43	3.42	3.40	3.39	3.38
912.00	3.37	3.36	3.35	3.33	3.32

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
917.00	3.31	3.30	3.29	3.28	3.26
922.00	3.25	3.24	3.23	3.22	3.21
927.00	3.19	3.18	3.17	3.16	3.15
932.00	3.14	3.13	3.11	3.10	3.09
937.00	3.08	3.07	3.06	3.04	3.03
942.00	3.02	3.01	3.00	2.99	2.97
947.00	2.96	2.95	2.94	2.93	2.91
952.00	2.90	2.89	2.88	2.87	2.86
957.00	2.84	2.83	2.82	2.81	2.80
962.00	2.79	2.77	2.76	2.75	2.74
967.00	2.73	2.72	2.70	2.69	2.68
972.00	2.67	2.66	2.65	2.64	2.63
977.00	2.62	2.61	2.61	2.60	2.59
982.00	2.58	2.57	2.57	2.56	2.55
987.00	2.54	2.54	2.53	2.52	2.52
992.00	2.51	2.50	2.50	2.49	2.49
997.00	2.48	2.47	2.47	2.46	2.46
1002.00	2.45	2.45	2.44	2.44	2.43
1007.00	2.43	2.42	2.42	2.41	2.41
1012.00	2.40	2.40	2.39	2.39	2.38
1017.00	2.38	2.37	2.37	2.37	2.36
1022.00	2.36	2.35	2.35	2.34	2.34
1027.00	2.34	2.33	2.33	2.32	2.32
1032.00	2.31	2.31	2.31	2.30	2.30
1037.00	2.29	2.29	2.28	2.28	2.28
1042.00	2.27	2.27	2.26	2.26	2.25
1047.00	2.25	2.25	2.24	2.24	2.23
1052.00	2.23	2.23	2.22	2.22	2.21

1057.00	2.21	2.20	2.20	2.20	2.19
1062.00	2.19	2.18	2.18	2.17	2.17
1067.00	2.17	2.16	2.16	2.15	2.15
1072.00	2.15	2.14	2.14	2.13	2.13
1077.00	2.12	2.12	2.12	2.11	2.11
1082.00	2.10	2.10	2.09	2.09	2.09
1087.00	2.08	2.08	2.07	2.07	2.06
1092.00	2.06	2.06	2.05	2.05	2.04
1097.00	2.04	2.03	2.03	2.03	2.02
1102.00	2.02	2.01	2.01	2.00	2.00
1107.00	2.00	1.99	1.99	1.98	1.98
1112.00	1.97	1.97	1.97	1.96	1.96
1117.00	1.95	1.95	1.94	1.94	1.94
1122.00	1.93	1.93	1.92	1.92	1.91
1127.00	1.91	1.90	1.90	1.90	1.89
1132.00	1.89	1.88	1.88	1.87	1.87
1137.00	1.87	1.86	1.86	1.85	1.85

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1142.00	1.84	1.84	1.83	1.83	1.83
1147.00	1.82	1.82	1.81	1.81	1.80
1152.00	1.80	1.80	1.79	1.79	1.78
1157.00	1.78	1.77	1.77	1.76	1.76
1162.00	1.76	1.75	1.75	1.74	1.74
1167.00	1.73	1.73	1.72	1.72	1.72
1172.00	1.71	1.71	1.70	1.70	1.69
1177.00	1.69	1.68	1.68	1.68	1.67
1182.00	1.67	1.66	1.66	1.65	1.65
1187.00	1.64	1.64	1.64	1.63	1.63
1192.00	1.62	1.62	1.61	1.61	1.60
1197.00	1.60	1.59	1.59	1.59	1.58
1202.00	1.58	1.57	1.57	1.56	1.56
1207.00	1.55	1.55	1.55	1.54	1.54
1212.00	1.53	1.53	1.53	1.52	1.52
1217.00	1.52	1.51	1.51	1.51	1.51
1222.00	1.50	1.50	1.50	1.49	1.49
1227.00	1.49	1.49	1.49	1.48	1.48
1232.00	1.48	1.48	1.48	1.47	1.47
1237.00	1.47	1.47	1.47	1.47	1.46

1242.00	1.46	1.46	1.46	1.46	1.46
1247.00	1.46	1.46	1.45	1.45	1.45
1252.00	1.45	1.45	1.45	1.45	1.45
1257.00	1.45	1.45	1.44	1.44	1.44
1262.00	1.44	1.44	1.44	1.44	1.44
1267.00	1.44	1.44	1.43	1.43	1.43
1272.00	1.43	1.43	1.43	1.43	1.43
1277.00	1.43	1.43	1.43	1.43	1.42
1282.00	1.42	1.42	1.42	1.42	1.42
1287.00	1.42	1.42	1.42	1.42	1.42
1292.00	1.42	1.41	1.41	1.41	1.41
1297.00	1.41	1.41	1.41	1.41	1.41
1302.00	1.41	1.41	1.41	1.40	1.40
1307.00	1.40	1.40	1.40	1.40	1.40
1312.00	1.40	1.40	1.40	1.40	1.40
1317.00	1.39	1.39	1.39	1.39	1.39
1322.00	1.39	1.39	1.39	1.39	1.39
1327.00	1.39	1.39	1.39	1.38	1.38
1332.00	1.38	1.38	1.38	1.38	1.38
1337.00	1.38	1.38	1.38	1.38	1.38
1342.00	1.37	1.37	1.37	1.37	1.37
1347.00	1.37	1.37	1.37	1.37	1.37
1352.00	1.37	1.37	1.36	1.36	1.36
1357.00	1.36	1.36	1.36	1.36	1.36
1362.00	1.36	1.36	1.36	1.36	1.35

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

Page 8.06

Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1367.00	1.35	1.35	1.35	1.35	1.35
1372.00	1.35	1.35	1.35	1.35	1.35
1377.00	1.35	1.34	1.34	1.34	1.34
1382.00	1.34	1.34	1.34	1.34	1.34
1387.00	1.34	1.34	1.34	1.33	1.33
1392.00	1.33	1.33	1.33	1.33	1.33
1397.00	1.33	1.33	1.33	1.33	1.33
1402.00	1.32	1.32	1.32	1.32	1.32
1407.00	1.32	1.32	1.32	1.32	1.32
1412.00	1.32	1.32	1.31	1.31	1.31
1417.00	1.31	1.31	1.31	1.31	1.31
1422.00	1.31	1.31	1.31	1.31	1.30

1427.00	1.30	1.30	1.30	1.30	1.30
1432.00	1.30	1.30	1.30	1.30	1.30
1437.00	1.29	1.29	1.29	1.29	1.29
1442.00	1.29	1.28	1.27	1.26	1.24
1447.00	1.21	1.18	1.15	1.12	1.08
1452.00	1.04	1.00	.96	.92	.88
1457.00	.84	.80	.76	.73	.69
1462.00	.66	.62	.59	.56	.53
1467.00	.50	.48	.48	.48	.48
1472.00	.48	.48	.47	.47	.47
1477.00	.47	.47	.47	.47	.47
1482.00	.47	.47	.47	.47	.47
1487.00	.47	.47	.47	.47	.47
1492.00	.47	.47	.47	.47	.47
1497.00	.47	.47	.47	.47	.47
1502.00	.47	.47	.47	.47	.47
1507.00	.47	.47	.47	.47	.47
1512.00	.47	.47	.47	.47	.47
1517.00	.47	.47	.47	.47	.47
1522.00	.47	.47	.47	.47	.47
1527.00	.47	.46	.46	.46	.46
1532.00	.46	.46	.46	.46	.46
1537.00	.46	.46	.46	.46	.46
1542.00	.46	.46	.46	.46	.46
1547.00	.46	.46	.46	.46	.46
1552.00	.46	.46	.46	.46	.46
1557.00	.46	.46	.46	.46	.46
1562.00	.46	.46	.46	.46	.46
1567.00	.46	.46	.46	.46	.46
1572.00	.46	.46	.46	.46	.46
1577.00	.46	.46	.46	.46	.46
1582.00	.45	.45	.45	.45	.45
1587.00	.45	.45	.45	.45	.45

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1592.00	.45	.45	.45	.45	.45
1597.00	.45	.45	.45	.45	.45
1602.00	.45	.45	.45	.45	.45
1607.00	.45	.45	.45	.45	.45

1612.00	.45	.45	.45	.45	.45
1617.00	.45	.45	.45	.45	.45
1622.00	.45	.45	.45	.45	.45
1627.00	.45	.45	.45	.45	.45
1632.00	.45	.45	.45	.45	.45
1637.00	.45	.44	.44	.44	.44
1642.00	.44	.44	.44	.44	.44
1647.00	.44	.44	.44	.44	.44
1652.00	.44	.44	.44	.44	.44
1657.00	.44	.44	.44	.44	.44
1662.00	.44	.44	.44	.44	.44
1667.00	.44	.44	.44	.44	.44
1672.00	.44	.44	.44	.44	.44
1677.00	.44	.44	.44	.44	.44
1682.00	.44	.44	.44	.44	.44
1687.00	.44	.44	.44	.44	.44
1692.00	.44	.44	.44	.44	.43
1697.00	.43	.43	.43	.43	.43
1702.00	.43	.43	.43	.43	.43
1707.00	.43	.43	.43	.43	.43
1712.00	.43	.43	.43	.43	.43
1717.00	.43	.43	.43	.43	.43
1722.00	.43	.43	.43	.43	.43
1727.00	.43	.43	.43	.43	.43
1732.00	.43	.43	.43	.43	.43
1737.00	.43	.43	.43	.43	.43
1742.00	.43	.43	.42	.42	.42
1747.00	.42	.42	.42	.42	.42
1752.00	.42	.42	.42	.42	.42
1757.00	.42	.42	.42	.42	.42
1762.00	.42	.42	.42	.42	.42
1767.00	.42	.42	.42	.42	.42
1772.00	.42	.42	.42	.42	.42
1777.00	.42	.42	.42	.42	.42
1782.00	.42	.42	.42	.42	.42
1787.00	.42	.42	.41	.41	.41
1792.00	.41	.41	.41	.41	.41
1797.00	.41	.41	.41	.41	.41
1802.00	.41	.41	.41	.41	.41
1807.00	.41	.41	.41	.41	.41
1812.00	.41	.41	.41	.41	.41

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1817.00	.41	.41	.41	.41	.41
1822.00	.41	.41	.41	.41	.41
1827.00	.41	.41	.41	.41	.41
1832.00	.41	.41	.41	.40	.40
1837.00	.40	.40	.40	.40	.40
1842.00	.40	.40	.40	.40	.40
1847.00	.40	.40	.40	.40	.40
1852.00	.40	.40	.40	.40	.40
1857.00	.40	.40	.40	.40	.40
1862.00	.40	.40	.40	.40	.40
1867.00	.40	.40	.40	.40	.40
1872.00	.40	.40	.40	.40	.40
1877.00	.40	.40	.40	.40	.40
1882.00	.39	.39	.39	.39	.39
1887.00	.39	.39	.39	.39	.39
1892.00	.39	.39	.39	.39	.39
1897.00	.39	.39	.39	.39	.39
1902.00	.39	.39	.39	.39	.39
1907.00	.39	.39	.39	.39	.39
1912.00	.39	.39	.39	.39	.39
1917.00	.39	.39	.39	.39	.39
1922.00	.39	.39	.39	.38	.38
1927.00	.38	.38	.38	.38	.38
1932.00	.38	.38	.38	.38	.38
1937.00	.38	.38	.38	.38	.38
1942.00	.38	.38	.38	.38	.38
1947.00	.38	.38	.38	.38	.38
1952.00	.38	.38	.37	.37	.37
1957.00	.37	.37	.37	.37	.37
1962.00	.37	.37	.37	.37	.37
1967.00	.37	.37	.37	.37	.37
1972.00	.37	.37	.37	.37	.37
1977.00	.37	.37	.37	.37	.37
1982.00	.37	.36	.36	.36	.36
1987.00	.36	.36	.36	.36	.36
1992.00	.36	.36	.36	.36	.36
1997.00	.36	.36	.36	.36	.36
2002.00	.36	.36	.36	.36	.36
2007.00	.36	.36	.36	.36	.36
2012.00	.36	.36	.35	.35	.35
2017.00	.35	.35	.35	.35	.35
2022.00	.35	.35	.35	.35	.35
2027.00	.35	.35	.35	.35	.35
2032.00	.35	.35	.35	.35	.35
2037.00	.35	.35	.35	.35	.35

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2042.00	.35	.35	.35	.34	.34
2047.00	.34	.34	.34	.34	.34
2052.00	.34	.34	.34	.34	.34
2057.00	.34	.34	.34	.34	.34
2062.00	.34	.34	.34	.34	.34
2067.00	.34	.34	.34	.34	.34
2072.00	.34	.34	.34	.34	.34
2077.00	.33	.33	.33	.33	.33
2082.00	.33	.33	.33	.33	.33
2087.00	.33	.33	.33	.33	.33
2092.00	.33	.33	.33	.33	.33
2097.00	.33	.33	.33	.33	.33
2102.00	.33	.33	.33	.33	.33
2107.00	.33	.33	.32	.32	.32
2112.00	.32	.32	.32	.32	.32
2117.00	.32	.32	.32	.32	.32
2122.00	.32	.32	.32	.32	.32
2127.00	.32	.32	.32	.32	.32
2132.00	.32	.32	.32	.32	.32
2137.00	.32	.32	.32	.32	.32
2142.00	.32	.32	.32	.32	.32
2147.00	.32	.32	.32	.32	.32
2152.00	.32	.32	.32	.32	.32
2157.00	.32	.32	.32	.32	.32
2162.00	.31	.31	.31	.31	.31
2167.00	.31	.31	.31	.31	.31
2172.00	.31	.31	.31	.31	.31
2177.00	.31	.31	.31	.31	.31
2182.00	.31	.31	.31	.31	.31
2187.00	.31	.31	.31	.31	.31
2192.00	.31	.31	.31	.31	.31
2197.00	.31	.31	.31	.31	.31
2202.00	.31	.31	.31	.31	.31
2207.00	.31	.31	.31	.31	.31
2212.00	.31	.31	.31	.31	.31
2217.00	.31	.31	.31	.31	.31
2222.00	.31	.31	.31	.31	.31
2227.00	.31	.31	.31	.31	.31

2232.00		.31	.31	.31	.31	.31
2237.00		.31	.31	.31	.31	.31
2242.00		.31	.31	.31	.31	.31
2247.00		.31	.31	.31	.31	.31
2252.00		.31	.31	.31	.31	.31
2257.00		.31	.31	.31	.31	.31
2262.00		.31	.31	.31	.31	.31

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
2267.00		.31	.31	.31	.31
2272.00		.30	.30	.30	.30
2277.00		.30	.30	.30	.30
2282.00		.30	.30	.30	.30
2287.00		.30	.30	.30	.30
2292.00		.30	.30	.30	.30
2297.00		.30	.30	.30	.30
2302.00		.30	.30	.30	.30
2307.00		.30	.30	.30	.30
2312.00		.30	.30	.30	.30
2317.00		.30	.30	.30	.30
2322.00		.30	.30	.30	.30
2327.00		.30	.30	.30	.30
2332.00		.30	.30	.30	.30
2337.00		.30	.30	.30	.30
2342.00		.30	.30	.30	.30
2347.01		.30	.30	.30	.30
2352.00		.30	.30	.30	.30
2357.00		.30	.30	.30	.30
2362.01		.30	.30	.30	.30
2367.00		.30	.30	.30	.30
2372.00		.30	.30	.30	.30
2377.01		.29	.29	.29	.29
2382.00		.29	.29	.29	.29
2387.01		.29	.29	.29	.29
2392.01		.29	.29	.29	.29
2397.00		.29	.29	.29	.29
2402.01		.29	.29	.29	.29
2407.01		.29	.29	.29	.29
2412.00		.29	.29	.29	.29

2417.01		.29	.29	.29	.29	.29
2422.01		.29	.29	.29	.29	.29
2427.01		.29	.29	.29	.29	.29
2432.01		.29	.29	.29	.29	.29
2437.01		.29	.29	.29	.29	.29
2442.01		.29	.29	.29	.29	.29
2447.01		.29	.29	.29	.29	.29
2452.01		.29	.29	.29	.29	.29
2457.01		.29	.29	.29	.29	.29
2462.01		.29	.29	.29	.29	.29
2467.01		.29	.29	.28	.28	.28
2472.01		.28	.28	.28	.28	.28
2477.01		.28	.28	.28	.28	.28
2482.01		.28	.28	.28	.28	.28
2487.01		.28	.28	.28	.28	.28

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PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
-----	-----					
2492.01		.28	.28	.28	.28	.28
2497.01		.28	.28	.28	.28	.28
2502.01		.28	.28	.28	.28	.28
2507.01		.28	.28	.28	.28	.28
2512.01		.28	.28	.28	.28	.28
2517.01		.28	.28	.28	.28	.28
2522.01		.28	.28	.28	.28	.28
2527.01		.28	.28	.28	.28	.28
2532.01		.28	.28	.28	.28	.28

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

SUMMARY FOR HYDROGRAPH ADDITION
at Node: OUTFALL

HYG Directory: F:\PJJ HM AsBuilt\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ADDLINK 30	HM UNDET		HM UNDET	10 yr
ROUTE 10	MAIN DET	IN	ROUTE 10	10 yr

INFLOWS TO: OUTFALL

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	HM UNDET	10 yr	1.793	722.00	26.02
	ROUTE 10	10 yr	11.918	733.00	95.97

TOTAL FLOW INTO: OUTFALL

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	OUTFALL	10 yr	13.711	729.00	111.11

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TOTAL NODE INFLOW...

HYG file =

HYG ID = OUTFALL

HYG Tag = 10 yr

Peak Discharge = 111.11 cfs

Time to Peak = 729.00 min

HYG Volume = 13.711 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
359.00	.00	.00	.00	.00	.01
364.00	.01	.01	.01	.01	.01
369.00	.02	.02	.02	.03	.03
374.00	.03	.04	.04	.04	.05

379.00	.05	.05	.06	.06	.06
384.00	.07	.07	.07	.07	.08
389.00	.08	.08	.08	.08	.08
394.00	.09	.09	.09	.09	.09
399.00	.09	.10	.10	.10	.10
404.00	.10	.11	.11	.11	.11
409.00	.12	.12	.12	.12	.12
414.00	.13	.13	.13	.13	.13
419.00	.14	.14	.14	.14	.14
424.00	.14	.14	.15	.15	.15
429.00	.15	.15	.16	.16	.16
434.00	.16	.16	.16	.17	.17
439.00	.17	.17	.17	.18	.18
444.00	.18	.18	.18	.18	.19
449.00	.19	.19	.19	.19	.19
454.00	.20	.20	.20	.20	.20
459.00	.20	.21	.21	.21	.21
464.00	.21	.21	.22	.22	.22
469.00	.22	.22	.22	.23	.23
474.00	.23	.23	.23	.23	.24
479.00	.24	.24	.24	.24	.25
484.00	.25	.25	.25	.26	.26
489.00	.26	.26	.27	.27	.27
494.00	.27	.28	.28	.28	.29
499.00	.29	.29	.30	.30	.30
504.00	.31	.31	.31	.32	.32
509.00	.32	.33	.33	.34	.34

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
514.00	.34	.35	.35	.35	.36
519.00	.36	.36	.37	.37	.37
524.00	.38	.38	.38	.39	.39
529.00	.39	.40	.40	.41	.41
534.00	.41	.42	.42	.43	.43
539.00	.43	.44	.44	.45	.45
544.00	.45	.46	.46	.46	.47
549.00	.47	.47	.48	.48	.48
554.00	.49	.49	.49	.50	.50
559.00	.50	.50	.51	.51	.51

564.00	.52	.52	.52	.52	.53
569.00	.53	.53	.53	.54	.54
574.00	.54	.54	.55	.55	.55
579.00	.56	.56	.56	.57	.57
584.00	.58	.58	.59	.59	.60
589.00	.60	.61	.61	.62	.63
594.00	.63	.64	.65	.65	.66
599.00	.67	.67	.68	.69	.69
604.00	.70	.71	.72	.72	.73
609.00	.74	.75	.76	.76	.77
614.00	.78	.79	.80	.81	.81
619.00	.82	.83	.84	.85	.86
624.00	.87	.88	.89	.90	.91
629.00	.92	.93	.94	.95	.96
634.00	.97	.98	.99	1.00	1.01
639.00	1.02	1.03	1.05	1.06	1.07
644.00	1.08	1.10	1.11	1.13	1.14
649.00	1.16	1.17	1.19	1.20	1.22
654.00	1.23	1.25	1.26	1.28	1.29
659.00	1.31	1.33	1.34	1.36	1.38
664.00	1.41	1.43	1.45	1.48	1.50
669.00	1.53	1.56	1.59	1.62	1.65
674.00	1.69	1.72	1.75	1.79	1.82
679.00	1.86	1.90	1.93	1.97	2.01
684.00	2.05	2.09	2.13	2.17	2.21
689.00	2.25	2.30	2.36	2.42	2.52
694.00	2.62	2.78	3.12	4.47	5.84
699.00	7.33	8.87	10.59	12.40	14.38
704.00	16.49	18.82	21.36	24.14	27.09
709.00	30.36	33.98	37.91	42.22	47.02
714.00	52.22	57.82	63.63	69.64	75.55
719.00	81.49	86.97	92.30	96.85	101.13
724.00	104.36	107.22	108.99	110.29	110.93
729.00	111.11	110.83	110.19	109.35	108.26
734.00	107.07	105.73	104.38	102.93	101.42

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PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
739.00	99.83	98.15	96.41	94.61	92.76
744.00	90.86	88.93	86.92	84.91	82.86

749.00	80.82	78.76	76.69	74.62	72.58
754.00	70.57	68.55	66.56	64.61	62.70
759.00	60.84	58.99	57.19	55.45	53.77
764.00	52.13	50.52	48.96	47.47	46.03
769.00	44.64	43.30	41.97	40.69	39.47
774.00	38.30	37.18	36.10	35.07	34.04
779.00	33.05	32.10	31.19	30.33	29.50
784.00	28.71	27.96	27.24	26.55	25.87
789.00	25.21	24.58	23.98	23.41	22.87
794.00	22.35	21.85	21.38	20.93	20.50
799.00	20.09	19.69	19.32	18.96	18.61
804.00	18.28	17.96	17.65	17.36	17.06
809.00	16.78	16.50	16.24	15.99	15.74
814.00	15.51	15.29	15.07	14.86	14.66
819.00	14.47	14.28	14.10	13.93	13.76
824.00	13.60	13.44	13.29	13.14	13.00
829.00	12.86	12.72	12.59	12.46	12.34
834.00	12.21	12.09	11.98	11.86	11.75
839.00	11.64	11.53	11.43	11.33	11.22
844.00	11.12	11.03	10.93	10.84	10.75
849.00	10.66	10.57	10.49	10.40	10.32
854.00	10.25	10.17	10.10	10.03	9.96
859.00	9.89	9.83	9.76	9.70	9.64
864.00	9.58	9.53	9.47	9.42	9.37
869.00	9.32	9.27	9.22	9.17	9.13
874.00	9.09	9.04	9.00	8.96	8.92
879.00	8.88	8.84	8.80	8.76	8.73
884.00	8.69	8.65	8.62	8.58	8.55
889.00	8.52	8.48	8.45	8.42	8.38
894.00	8.35	8.32	8.29	8.26	8.23
899.00	8.20	8.16	8.13	8.10	8.07
904.00	8.04	8.01	7.98	7.95	7.92
909.00	7.89	7.86	7.83	7.80	7.77
914.00	7.74	7.71	7.68	7.66	7.63
919.00	7.60	7.57	7.54	7.51	7.49
924.00	7.46	7.43	7.40	7.37	7.34
929.00	7.32	7.29	7.26	7.23	7.20
934.00	7.18	7.15	7.12	7.09	7.06
939.00	7.04	7.01	6.98	6.95	6.92
944.00	6.90	6.87	6.84	6.81	6.79
949.00	6.76	6.73	6.70	6.67	6.65
954.00	6.62	6.59	6.56	6.53	6.51
959.00	6.48	6.45	6.42	6.39	6.37

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PondPack Ver:

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Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
964.00	6.34	6.31	6.28	6.26	6.23	
969.00	6.20	6.18	6.15	6.13	6.10	
974.00	6.08	6.06	6.03	6.01	5.99	
979.00	5.97	5.95	5.93	5.91	5.89	
984.00	5.87	5.85	5.83	5.82	5.80	
989.00	5.78	5.77	5.75	5.74	5.72	
994.00	5.71	5.69	5.68	5.66	5.65	
999.00	5.64	5.62	5.61	5.60	5.58	
1004.00	5.57	5.56	5.55	5.53	5.52	
1009.00	5.51	5.50	5.49	5.48	5.47	
1014.00	5.45	5.44	5.43	5.42	5.41	
1019.00	5.40	5.39	5.38	5.37	5.36	
1024.00	5.35	5.34	5.33	5.31	5.30	
1029.00	5.29	5.28	5.27	5.26	5.25	
1034.00	5.24	5.23	5.22	5.21	5.20	
1039.00	5.19	5.18	5.17	5.16	5.15	
1044.00	5.14	5.13	5.12	5.11	5.10	
1049.00	5.09	5.08	5.07	5.06	5.05	
1054.00	5.04	5.03	5.02	5.01	5.00	
1059.00	4.99	4.98	4.97	4.96	4.95	
1064.00	4.94	4.93	4.92	4.91	4.90	
1069.00	4.89	4.88	4.87	4.86	4.85	
1074.00	4.84	4.83	4.82	4.81	4.80	
1079.00	4.79	4.78	4.77	4.76	4.75	
1084.00	4.74	4.73	4.72	4.71	4.70	
1089.00	4.69	4.68	4.67	4.66	4.65	
1094.00	4.64	4.63	4.62	4.61	4.60	
1099.00	4.59	4.58	4.57	4.56	4.55	
1104.00	4.54	4.53	4.52	4.51	4.50	
1109.00	4.49	4.48	4.47	4.46	4.45	
1114.00	4.44	4.43	4.42	4.41	4.40	
1119.00	4.39	4.38	4.37	4.36	4.35	
1124.00	4.34	4.33	4.32	4.31	4.30	
1129.00	4.29	4.28	4.27	4.26	4.25	
1134.00	4.24	4.23	4.21	4.20	4.19	
1139.00	4.18	4.17	4.16	4.15	4.14	
1144.00	4.13	4.12	4.11	4.10	4.09	
1149.00	4.08	4.07	4.06	4.05	4.04	
1154.00	4.03	4.02	4.01	4.00	3.99	
1159.00	3.98	3.97	3.96	3.95	3.94	
1164.00	3.93	3.92	3.91	3.90	3.89	
1169.00	3.88	3.87	3.86	3.85	3.84	
1174.00	3.83	3.82	3.81	3.80	3.79	
1179.00	3.78	3.77	3.75	3.74	3.73	

1184.00 | 3.72 3.71 3.70 3.69 3.68

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PondPack Ver:

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Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1189.00	3.67	3.66	3.65	3.64	3.63
1194.00	3.62	3.61	3.60	3.59	3.58
1199.00	3.57	3.56	3.55	3.54	3.53
1204.00	3.52	3.51	3.50	3.49	3.48
1209.00	3.47	3.46	3.45	3.44	3.43
1214.00	3.43	3.42	3.41	3.40	3.39
1219.00	3.39	3.38	3.37	3.37	3.36
1224.00	3.36	3.35	3.34	3.34	3.33
1229.00	3.33	3.32	3.32	3.31	3.31
1234.00	3.31	3.30	3.30	3.29	3.29
1239.00	3.29	3.28	3.28	3.28	3.27
1244.00	3.27	3.27	3.26	3.26	3.26
1249.00	3.25	3.25	3.25	3.25	3.24
1254.00	3.24	3.24	3.24	3.23	3.23
1259.00	3.23	3.23	3.22	3.22	3.22
1264.00	3.22	3.21	3.21	3.21	3.21
1269.00	3.21	3.20	3.20	3.20	3.20
1274.00	3.19	3.19	3.19	3.19	3.19
1279.00	3.18	3.18	3.18	3.18	3.18
1284.00	3.17	3.17	3.17	3.17	3.17
1289.00	3.16	3.16	3.16	3.16	3.16
1294.00	3.15	3.15	3.15	3.15	3.15
1299.00	3.14	3.14	3.14	3.14	3.14
1304.00	3.13	3.13	3.13	3.13	3.13
1309.00	3.12	3.12	3.12	3.12	3.12
1314.00	3.11	3.11	3.11	3.11	3.11
1319.00	3.10	3.10	3.10	3.10	3.10
1324.00	3.09	3.09	3.09	3.09	3.09
1329.00	3.08	3.08	3.08	3.08	3.08
1334.00	3.08	3.07	3.07	3.07	3.07
1339.00	3.06	3.06	3.06	3.06	3.06
1344.00	3.06	3.05	3.05	3.05	3.05
1349.00	3.05	3.04	3.04	3.04	3.04
1354.00	3.04	3.03	3.03	3.03	3.03
1359.00	3.03	3.02	3.02	3.02	3.02
1364.00	3.02	3.01	3.01	3.01	3.01

1369.00	3.01	3.00	3.00	3.00	3.00
1374.00	3.00	2.99	2.99	2.99	2.99
1379.00	2.99	2.98	2.98	2.98	2.98
1384.00	2.98	2.97	2.97	2.97	2.97
1389.00	2.97	2.96	2.96	2.96	2.96
1394.00	2.96	2.95	2.95	2.95	2.95
1399.00	2.95	2.94	2.94	2.94	2.94
1404.00	2.94	2.93	2.93	2.93	2.93
1409.00	2.93	2.92	2.92	2.92	2.92

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PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1414.00	2.92	2.91	2.91	2.91	2.91
1419.00	2.91	2.90	2.90	2.90	2.90
1424.00	2.90	2.89	2.89	2.89	2.89
1429.00	2.89	2.88	2.88	2.88	2.88
1434.00	2.88	2.87	2.87	2.87	2.87
1439.00	2.87	2.86	2.86	2.85	2.84
1444.00	2.82	2.78	2.74	2.69	2.63
1449.00	2.56	2.48	2.40	2.32	2.23
1454.00	2.14	2.05	1.97	1.88	1.80
1459.00	1.72	1.64	1.56	1.48	1.41
1464.00	1.34	1.27	1.20	1.14	1.08
1469.00	1.02	.96	.90	.85	.80
1474.00	.75	.71	.67	.63	.59
1479.00	.55	.52	.49	.47	.47
1484.00	.47	.47	.47	.47	.47
1489.00	.47	.47	.47	.47	.47
1494.00	.47	.47	.47	.47	.47
1499.00	.47	.47	.47	.47	.47
1504.00	.47	.47	.47	.47	.47
1509.00	.47	.47	.47	.47	.47
1514.00	.47	.47	.47	.47	.47
1519.00	.47	.47	.47	.47	.47
1524.00	.47	.47	.47	.47	.47
1529.00	.47	.47	.47	.47	.47
1534.00	.47	.47	.47	.47	.47
1539.00	.47	.46	.46	.46	.46
1544.00	.46	.46	.46	.46	.46
1549.00	.46	.46	.46	.46	.46

1554.00	.46	.46	.46	.46	.46
1559.00	.46	.46	.46	.46	.46
1564.00	.46	.46	.46	.46	.46
1569.00	.46	.46	.46	.46	.46
1574.00	.46	.46	.46	.46	.46
1579.00	.46	.46	.46	.46	.46
1584.00	.46	.46	.46	.46	.46
1589.00	.46	.46	.46	.46	.46
1594.00	.46	.45	.45	.45	.45
1599.00	.45	.45	.45	.45	.45
1604.00	.45	.45	.45	.45	.45
1609.00	.45	.45	.45	.45	.45
1614.00	.45	.45	.45	.45	.45
1619.00	.45	.45	.45	.45	.45
1624.00	.45	.45	.45	.45	.45
1629.00	.45	.45	.45	.45	.45
1634.00	.45	.45	.45	.45	.45

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1639.00	.45	.45	.45	.45	.45
1644.00	.45	.45	.45	.45	.45
1649.00	.45	.45	.44	.44	.44
1654.00	.44	.44	.44	.44	.44
1659.00	.44	.44	.44	.44	.44
1664.00	.44	.44	.44	.44	.44
1669.00	.44	.44	.44	.44	.44
1674.00	.44	.44	.44	.44	.44
1679.00	.44	.44	.44	.44	.44
1684.00	.44	.44	.44	.44	.44
1689.00	.44	.44	.44	.44	.44
1694.00	.44	.44	.44	.44	.44
1699.00	.44	.44	.44	.44	.44
1704.00	.44	.44	.44	.44	.43
1709.00	.43	.43	.43	.43	.43
1714.00	.43	.43	.43	.43	.43
1719.00	.43	.43	.43	.43	.43
1724.00	.43	.43	.43	.43	.43
1729.00	.43	.43	.43	.43	.43
1734.00	.43	.43	.43	.43	.43

1739.00	.43	.43	.43	.43	.43
1744.00	.43	.43	.43	.43	.43
1749.00	.43	.43	.43	.43	.43
1754.00	.43	.43	.43	.42	.42
1759.00	.42	.42	.42	.42	.42
1764.00	.42	.42	.42	.42	.42
1769.00	.42	.42	.42	.42	.42
1774.00	.42	.42	.42	.42	.42
1779.00	.42	.42	.42	.42	.42
1784.00	.42	.42	.42	.42	.42
1789.00	.42	.42	.42	.42	.42
1794.00	.42	.42	.42	.42	.42
1799.00	.42	.42	.42	.41	.41
1804.00	.41	.41	.41	.41	.41
1809.00	.41	.41	.41	.41	.41
1814.00	.41	.41	.41	.41	.41
1819.00	.41	.41	.41	.41	.41
1824.00	.41	.41	.41	.41	.41
1829.00	.41	.41	.41	.41	.41
1834.00	.41	.41	.41	.41	.41
1839.00	.41	.41	.41	.41	.41
1844.00	.41	.41	.41	.40	.40
1849.00	.40	.40	.40	.40	.40
1854.00	.40	.40	.40	.40	.40
1859.00	.40	.40	.40	.40	.40

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1864.00	.40	.40	.40	.40	.40
1869.00	.40	.40	.40	.40	.40
1874.00	.40	.40	.40	.40	.40
1879.00	.40	.40	.40	.40	.40
1884.00	.40	.40	.40	.40	.40
1889.00	.40	.40	.40	.40	.40
1894.00	.39	.39	.39	.39	.39
1899.00	.39	.39	.39	.39	.39
1904.00	.39	.39	.39	.39	.39
1909.00	.39	.39	.39	.39	.39
1914.00	.39	.39	.39	.39	.39
1919.00	.39	.39	.39	.39	.39

1924.00	.39	.39	.39	.39	.39
1929.00	.39	.39	.39	.39	.39
1934.00	.39	.39	.39	.39	.38
1939.00	.38	.38	.38	.38	.38
1944.00	.38	.38	.38	.38	.38
1949.00	.38	.38	.38	.38	.38
1954.00	.38	.38	.38	.38	.38
1959.00	.38	.38	.38	.38	.38
1964.00	.38	.38	.38	.37	.37
1969.00	.37	.37	.37	.37	.37
1974.00	.37	.37	.37	.37	.37
1979.00	.37	.37	.37	.37	.37
1984.00	.37	.37	.37	.37	.37
1989.00	.37	.37	.37	.37	.37
1994.00	.37	.37	.36	.36	.36
1999.00	.36	.36	.36	.36	.36
2004.00	.36	.36	.36	.36	.36
2009.00	.36	.36	.36	.36	.36
2014.00	.36	.36	.36	.36	.36
2019.00	.36	.36	.36	.36	.36
2024.00	.36	.36	.35	.35	.35
2029.00	.35	.35	.35	.35	.35
2034.00	.35	.35	.35	.35	.35
2039.00	.35	.35	.35	.35	.35
2044.00	.35	.35	.35	.35	.35
2049.00	.35	.35	.35	.35	.35
2054.00	.35	.35	.35	.34	.34
2059.00	.34	.34	.34	.34	.34
2064.00	.34	.34	.34	.34	.34
2069.00	.34	.34	.34	.34	.34
2074.00	.34	.34	.34	.34	.34
2079.00	.34	.34	.34	.34	.34
2084.00	.34	.34	.34	.34	.34

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PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
2089.00	.33	.33	.33	.33	.33
2094.00	.33	.33	.33	.33	.33
2099.00	.33	.33	.33	.33	.33
2104.00	.33	.33	.33	.33	.33

2109.00		.33	.33	.33	.33	.33
2114.00		.33	.33	.33	.33	.33
2119.00		.33	.33	.33	.32	.32
2124.00		.32	.32	.32	.32	.32
2129.00		.32	.32	.32	.32	.32
2134.00		.32	.32	.32	.32	.32
2139.00		.32	.32	.32	.32	.32
2144.00		.32	.32	.32	.32	.32
2149.00		.32	.32	.32	.32	.32
2154.00		.32	.32	.32	.32	.32
2159.00		.32	.32	.32	.32	.32
2164.00		.32	.32	.32	.32	.32
2169.00		.32	.32	.32	.32	.32
2174.00		.32	.31	.31	.31	.31
2179.00		.31	.31	.31	.31	.31
2184.00		.31	.31	.31	.31	.31
2189.00		.31	.31	.31	.31	.31
2194.00		.31	.31	.31	.31	.31
2199.00		.31	.31	.31	.31	.31
2204.00		.31	.31	.31	.31	.31
2209.00		.31	.31	.31	.31	.31
2214.00		.31	.31	.31	.31	.31
2219.00		.31	.31	.31	.31	.31
2224.00		.31	.31	.31	.31	.31
2229.00		.31	.31	.31	.31	.31
2234.00		.31	.31	.31	.31	.31
2239.00		.31	.31	.31	.31	.31
2244.00		.31	.31	.31	.31	.31
2249.00		.31	.31	.31	.31	.31
2254.00		.31	.31	.31	.31	.31
2259.00		.31	.31	.31	.31	.31
2264.00		.31	.31	.31	.31	.31
2269.00		.31	.31	.31	.31	.31
2274.00		.31	.31	.31	.31	.31
2279.00		.31	.31	.31	.31	.31
2284.00		.30	.30	.30	.30	.30
2289.00		.30	.30	.30	.30	.30
2294.00		.30	.30	.30	.30	.30
2299.00		.30	.30	.30	.30	.30
2304.00		.30	.30	.30	.30	.30
2309.00		.30	.30	.30	.30	.30

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
2314.00	.30	.30	.30	.30	.30
2319.00	.30	.30	.30	.30	.30
2324.00	.30	.30	.30	.30	.30
2329.00	.30	.30	.30	.30	.30
2334.01	.30	.30	.30	.30	.30
2339.00	.30	.30	.30	.30	.30
2344.00	.30	.30	.30	.30	.30
2349.01	.30	.30	.30	.30	.30
2354.00	.30	.30	.30	.30	.30

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

SUMMARY FOR HYDROGRAPH ADDITION
at Node: OUTFALL

HYG Directory: F:\PJJ HM AsBuilt\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ADDLINK 30	HM UNDET		HM UNDET	100 yr
ROUTE 10	MAIN DET	IN	ROUTE 10	100 yr

INFLOWS TO: OUTFALL

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	HM UNDET	100 yr	3.410	721.00	48.26
	ROUTE 10	100 yr	23.996	733.00	194.83

TOTAL FLOW INTO: OUTFALL

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	OUTFALL	100 yr	27.406	730.00	221.30

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PondPack Ver:

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Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TOTAL NODE INFLOW...

HYG file =

HYG ID = OUTFALL

HYG Tag = 100 yr

 Peak Discharge = 221.30 cfs
 Time to Peak = 730.00 min
 HYG Volume = 27.406 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
245.00	.00	.00	.00	.00	.01
250.00	.01	.01	.01	.02	.02
255.00	.02	.03	.03	.04	.04
260.00	.04	.05	.06	.06	.07
265.00	.07	.08	.08	.08	.08
270.00	.08	.09	.09	.09	.09
275.00	.10	.10	.10	.11	.11
280.00	.11	.11	.12	.12	.12
285.00	.13	.13	.14	.14	.14
290.00	.14	.15	.15	.15	.15
295.00	.16	.16	.16	.16	.17
300.00	.17	.17	.17	.18	.18
305.00	.18	.18	.19	.19	.19
310.00	.20	.20	.20	.20	.21
315.00	.21	.21	.21	.22	.22
320.00	.22	.22	.22	.23	.23
325.00	.23	.24	.24	.24	.24
330.00	.25	.25	.25	.25	.26
335.00	.26	.26	.26	.27	.27
340.00	.27	.28	.28	.28	.29
345.00	.29	.29	.30	.30	.30
350.00	.31	.31	.31	.32	.32
355.00	.32	.33	.33	.33	.34
360.00	.34	.34	.35	.35	.35
365.00	.36	.36	.36	.37	.37
370.00	.37	.37	.38	.38	.38
375.00	.38	.39	.39	.39	.40
380.00	.40	.40	.41	.41	.41

385.00		.41	.42	.42	.42	.43
390.00		.43	.43	.44	.44	.44
395.00		.45	.45	.45	.45	.46

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
400.00	.46	.46	.47	.47	.47	
405.00	.47	.48	.48	.48	.49	
410.00	.49	.49	.50	.50	.50	
415.00	.50	.51	.51	.51	.52	
420.00	.52	.52	.53	.53	.53	
425.00	.53	.54	.54	.54	.55	
430.00	.55	.55	.55	.56	.56	
435.00	.56	.57	.57	.57	.58	
440.00	.58	.58	.59	.59	.59	
445.00	.60	.60	.60	.61	.61	
450.00	.62	.62	.62	.63	.63	
455.00	.63	.64	.64	.65	.65	
460.00	.65	.66	.66	.67	.67	
465.00	.67	.68	.68	.69	.69	
470.00	.69	.70	.70	.70	.71	
475.00	.71	.71	.72	.72	.72	
480.00	.73	.73	.73	.74	.74	
485.00	.74	.75	.75	.76	.76	
490.00	.77	.77	.78	.78	.79	
495.00	.79	.80	.80	.81	.82	
500.00	.82	.83	.84	.84	.85	
505.00	.86	.86	.87	.88	.88	
510.00	.89	.90	.90	.91	.92	
515.00	.92	.93	.94	.95	.95	
520.00	.96	.97	.97	.98	.99	
525.00	1.00	1.00	1.01	1.02	1.03	
530.00	1.03	1.04	1.05	1.06	1.07	
535.00	1.08	1.09	1.10	1.11	1.12	
540.00	1.13	1.14	1.15	1.16	1.17	
545.00	1.18	1.19	1.20	1.21	1.22	
550.00	1.23	1.24	1.25	1.25	1.26	
555.00	1.27	1.27	1.28	1.29	1.29	
560.00	1.30	1.30	1.31	1.31	1.32	
565.00	1.32	1.33	1.33	1.34	1.34	

570.00	1.35	1.35	1.36	1.36	1.37
575.00	1.37	1.38	1.39	1.39	1.40
580.00	1.41	1.42	1.43	1.44	1.45
585.00	1.46	1.47	1.48	1.49	1.50
590.00	1.51	1.72	2.18	2.61	3.01
595.00	3.39	3.74	4.06	4.37	4.66
600.00	4.93	5.18	5.43	5.66	5.87
605.00	6.08	6.28	6.47	6.65	6.82
610.00	6.99	7.15	7.31	7.47	7.62
615.00	7.76	7.91	8.05	8.19	8.33
620.00	8.46	8.60	8.73	8.86	8.98

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Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
625.00	9.11	9.24	9.36	9.49	9.61
630.00	9.74	9.87	9.99	10.12	10.25
635.00	10.38	10.51	10.65	10.78	10.92
640.00	11.06	11.20	11.35	11.50	11.65
645.00	11.80	11.96	12.12	12.28	12.45
650.00	12.62	12.79	12.97	13.14	13.32
655.00	13.51	13.69	13.88	14.07	14.26
660.00	14.46	14.66	14.86	15.07	15.28
665.00	15.49	15.72	15.95	16.18	16.43
670.00	16.68	16.94	17.21	17.49	17.79
675.00	18.09	18.40	18.73	19.06	19.39
680.00	19.73	20.08	20.44	20.82	21.20
685.00	21.59	21.99	22.41	22.83	23.26
690.00	23.71	24.20	24.73	25.37	26.07
695.00	26.95	27.94	29.20	30.62	32.33
700.00	34.25	36.60	39.25	42.37	45.77
705.00	49.56	53.78	58.48	63.58	69.29
710.00	75.53	82.43	90.01	98.38	107.52
715.00	117.28	127.32	137.66	148.34	161.89
720.00	174.22	185.82	195.63	202.51	206.69
725.00	209.79	212.70	215.83	219.06	220.86
730.00	221.30	220.72	219.37	217.03	214.07
735.00	210.50	206.96	203.10	199.02	194.69
740.00	190.20	186.06	182.26	178.34	175.12
745.00	172.32	169.44	166.52	162.99	159.42
750.00	155.40	150.39	145.45	140.54	135.70

755.00	131.02	126.29	121.74	117.33	112.97
760.00	108.78	105.58	102.80	100.09	97.44
765.00	94.81	92.23	89.74	87.29	84.88
770.00	82.54	80.28	78.05	75.88	73.78
775.00	71.75	69.77	67.83	65.97	64.18
780.00	62.45	60.75	59.11	57.53	56.01
785.00	54.55	53.15	51.77	50.45	49.18
790.00	47.96	46.80	45.68	44.61	43.56
795.00	42.54	41.57	40.64	39.75	38.89
800.00	38.08	37.29	36.54	35.82	35.11
805.00	34.41	33.75	33.11	32.50	31.91
810.00	31.35	30.81	30.29	29.79	29.31
815.00	28.84	28.40	27.97	27.55	27.16
820.00	26.77	26.39	26.02	25.66	25.31
825.00	24.98	24.66	24.35	24.05	23.77
830.00	23.49	23.22	22.95	22.70	22.45
835.00	22.21	21.97	21.74	21.52	21.30
840.00	21.09	20.88	20.68	20.48	20.28
845.00	20.09	19.91	19.72	19.55	19.38

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

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Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
850.00	19.21	19.05	18.89	18.73	18.58
855.00	18.44	18.30	18.16	18.03	17.90
860.00	17.78	17.65	17.53	17.41	17.30
865.00	17.19	17.08	16.97	16.87	16.77
870.00	16.68	16.58	16.49	16.41	16.32
875.00	16.24	16.16	16.08	16.00	15.92
880.00	15.85	15.77	15.70	15.63	15.57
885.00	15.50	15.43	15.37	15.30	15.24
890.00	15.18	15.12	15.05	14.99	14.93
895.00	14.88	14.82	14.76	14.70	14.65
900.00	14.59	14.54	14.48	14.42	14.37
905.00	14.32	14.26	14.21	14.15	14.10
910.00	14.05	14.00	13.94	13.89	13.84
915.00	13.79	13.73	13.68	13.63	13.58
920.00	13.53	13.48	13.42	13.37	13.32
925.00	13.27	13.22	13.17	13.12	13.07
930.00	13.02	12.97	12.91	12.86	12.81
935.00	12.76	12.71	12.66	12.61	12.56

940.00	12.51	12.46	12.41	12.36	12.31
945.00	12.26	12.21	12.16	12.11	12.06
950.00	12.00	11.95	11.90	11.85	11.80
955.00	11.75	11.70	11.65	11.60	11.55
960.00	11.50	11.45	11.40	11.35	11.30
965.00	11.25	11.20	11.15	11.10	11.06
970.00	11.01	10.96	10.92	10.87	10.83
975.00	10.79	10.75	10.71	10.67	10.63
980.00	10.59	10.55	10.52	10.48	10.45
985.00	10.42	10.38	10.35	10.32	10.29
990.00	10.26	10.23	10.20	10.17	10.15
995.00	10.12	10.09	10.07	10.04	10.02
1000.00	9.99	9.97	9.94	9.92	9.90
1005.00	9.88	9.85	9.83	9.81	9.79
1010.00	9.77	9.74	9.72	9.70	9.68
1015.00	9.66	9.64	9.62	9.60	9.58
1020.00	9.56	9.54	9.52	9.50	9.48
1025.00	9.46	9.45	9.43	9.41	9.39
1030.00	9.37	9.35	9.33	9.31	9.29
1035.00	9.28	9.26	9.24	9.22	9.20
1040.00	9.18	9.17	9.15	9.13	9.11
1045.00	9.09	9.07	9.06	9.04	9.02
1050.00	9.00	8.98	8.96	8.95	8.93
1055.00	8.91	8.89	8.87	8.86	8.84
1060.00	8.82	8.80	8.78	8.77	8.75
1065.00	8.73	8.71	8.69	8.68	8.66
1070.00	8.64	8.62	8.60	8.58	8.57

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1075.00	8.55	8.53	8.51	8.49	8.48
1080.00	8.46	8.44	8.42	8.40	8.39
1085.00	8.37	8.35	8.33	8.31	8.30
1090.00	8.28	8.26	8.24	8.22	8.21
1095.00	8.19	8.17	8.15	8.13	8.11
1100.00	8.09	8.07	8.06	8.04	8.02
1105.00	8.00	7.98	7.96	7.94	7.93
1110.00	7.91	7.89	7.87	7.85	7.83
1115.00	7.82	7.80	7.78	7.76	7.74
1120.00	7.72	7.71	7.69	7.67	7.65

1125.00	7.63	7.61	7.60	7.58	7.56
1130.00	7.54	7.52	7.51	7.49	7.47
1135.00	7.45	7.43	7.41	7.40	7.38
1140.00	7.36	7.34	7.32	7.30	7.29
1145.00	7.27	7.25	7.23	7.21	7.20
1150.00	7.18	7.16	7.14	7.12	7.10
1155.00	7.09	7.07	7.05	7.03	7.01
1160.00	6.99	6.98	6.96	6.94	6.92
1165.00	6.90	6.89	6.87	6.85	6.83
1170.00	6.81	6.79	6.78	6.76	6.74
1175.00	6.72	6.70	6.68	6.67	6.65
1180.00	6.63	6.61	6.59	6.57	6.56
1185.00	6.54	6.52	6.50	6.48	6.47
1190.00	6.45	6.43	6.41	6.39	6.37
1195.00	6.36	6.34	6.32	6.30	6.28
1200.00	6.26	6.25	6.23	6.21	6.19
1205.00	6.17	6.16	6.14	6.12	6.10
1210.00	6.09	6.07	6.06	6.04	6.03
1215.00	6.01	6.00	5.98	5.97	5.96
1220.00	5.95	5.93	5.92	5.91	5.90
1225.00	5.89	5.88	5.87	5.86	5.85
1230.00	5.84	5.83	5.83	5.82	5.81
1235.00	5.80	5.80	5.79	5.78	5.77
1240.00	5.77	5.76	5.76	5.75	5.74
1245.00	5.74	5.73	5.73	5.72	5.72
1250.00	5.71	5.71	5.70	5.70	5.69
1255.00	5.69	5.68	5.68	5.68	5.67
1260.00	5.67	5.66	5.66	5.65	5.65
1265.00	5.65	5.64	5.64	5.63	5.63
1270.00	5.63	5.62	5.62	5.61	5.61
1275.00	5.61	5.60	5.60	5.59	5.59
1280.00	5.59	5.58	5.58	5.58	5.57
1285.00	5.57	5.57	5.56	5.56	5.55
1290.00	5.55	5.55	5.54	5.54	5.54
1295.00	5.53	5.53	5.53	5.52	5.52

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1300.00	5.51	5.51	5.51	5.50	5.50
1305.00	5.50	5.49	5.49	5.49	5.48

1310.00	5.48	5.47	5.47	5.47	5.46
1315.00	5.46	5.46	5.45	5.45	5.45
1320.00	5.44	5.44	5.44	5.43	5.43
1325.00	5.42	5.42	5.42	5.41	5.41
1330.00	5.41	5.40	5.40	5.40	5.39
1335.00	5.39	5.38	5.38	5.38	5.37
1340.00	5.37	5.37	5.36	5.36	5.36
1345.00	5.35	5.35	5.35	5.34	5.34
1350.00	5.33	5.33	5.33	5.32	5.32
1355.00	5.32	5.31	5.31	5.31	5.30
1360.00	5.30	5.29	5.29	5.29	5.28
1365.00	5.28	5.28	5.27	5.27	5.27
1370.00	5.26	5.26	5.26	5.25	5.25
1375.00	5.24	5.24	5.24	5.23	5.23
1380.00	5.23	5.22	5.22	5.22	5.21
1385.00	5.21	5.20	5.20	5.20	5.19
1390.00	5.19	5.19	5.18	5.18	5.18
1395.00	5.17	5.17	5.17	5.16	5.16
1400.00	5.15	5.15	5.15	5.14	5.14
1405.00	5.14	5.13	5.13	5.13	5.12
1410.00	5.12	5.11	5.11	5.11	5.10
1415.00	5.10	5.10	5.09	5.09	5.09
1420.00	5.08	5.08	5.07	5.07	5.07
1425.00	5.06	5.06	5.06	5.05	5.05
1430.00	5.05	5.04	5.04	5.04	5.03
1435.00	5.03	5.02	5.02	5.02	5.01
1440.00	5.01	5.00	4.99	4.96	4.93
1445.00	4.87	4.80	4.71	4.61	4.49
1450.00	4.36	4.21	4.07	3.91	3.76
1455.00	3.61	3.46	3.31	3.17	3.02
1460.00	2.88	2.75	2.62	2.49	2.36
1465.00	2.24	2.12	2.01	1.90	1.80
1470.00	1.70	1.60	1.51	1.42	1.34
1475.00	1.26	1.18	1.11	1.04	.98
1480.00	.92	.86	.81	.76	.71
1485.00	.66	.62	.58	.55	.51
1490.00	.48	.47	.47	.47	.47
1495.00	.47	.47	.47	.47	.47
1500.00	.47	.47	.47	.47	.47
1505.00	.47	.47	.47	.47	.47
1510.00	.47	.47	.47	.47	.47
1515.00	.47	.47	.47	.47	.47
1520.00	.47	.47	.47	.47	.47

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
1525.00	.47	.47	.47	.47	.47	.47
1530.00	.47	.47	.47	.47	.47	.47
1535.00	.47	.47	.47	.47	.47	.47
1540.00	.47	.47	.47	.47	.47	.47
1545.00	.47	.47	.47	.46	.46	.46
1550.00	.46	.46	.46	.46	.46	.46
1555.00	.46	.46	.46	.46	.46	.46
1560.00	.46	.46	.46	.46	.46	.46
1565.00	.46	.46	.46	.46	.46	.46
1570.00	.46	.46	.46	.46	.46	.46
1575.00	.46	.46	.46	.46	.46	.46
1580.00	.46	.46	.46	.46	.46	.46
1585.00	.46	.46	.46	.46	.46	.46
1590.00	.46	.46	.46	.46	.46	.46
1595.00	.46	.46	.46	.46	.46	.46
1600.00	.46	.46	.46	.45	.45	.45
1605.00	.45	.45	.45	.45	.45	.45
1610.00	.45	.45	.45	.45	.45	.45
1615.00	.45	.45	.45	.45	.45	.45
1620.00	.45	.45	.45	.45	.45	.45
1625.00	.45	.45	.45	.45	.45	.45
1630.00	.45	.45	.45	.45	.45	.45
1635.00	.45	.45	.45	.45	.45	.45
1640.00	.45	.45	.45	.45	.45	.45
1645.00	.45	.45	.45	.45	.45	.45
1650.00	.45	.45	.45	.45	.45	.45
1655.00	.45	.45	.45	.45	.45	.44
1660.00	.44	.44	.44	.44	.44	.44
1665.00	.44	.44	.44	.44	.44	.44
1670.00	.44	.44	.44	.44	.44	.44
1675.00	.44	.44	.44	.44	.44	.44
1680.00	.44	.44	.44	.44	.44	.44
1685.00	.44	.44	.44	.44	.44	.44
1690.00	.44	.44	.44	.44	.44	.44
1695.00	.44	.44	.44	.44	.44	.44
1700.00	.44	.44	.44	.44	.44	.44
1705.00	.44	.44	.44	.44	.44	.44
1710.00	.44	.44	.44	.44	.44	.44
1715.00	.44	.43	.43	.43	.43	.43
1720.00	.43	.43	.43	.43	.43	.43
1725.00	.43	.43	.43	.43	.43	.43
1730.00	.43	.43	.43	.43	.43	.43
1735.00	.43	.43	.43	.43	.43	.43
1740.00	.43	.43	.43	.43	.43	.43

1745.00 | .43 .43 .43 .43 .43

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1750.00	.43	.43	.43	.43	.43
1755.00	.43	.43	.43	.43	.43
1760.00	.43	.43	.43	.43	.43
1765.00	.42	.42	.42	.42	.42
1770.00	.42	.42	.42	.42	.42
1775.00	.42	.42	.42	.42	.42
1780.00	.42	.42	.42	.42	.42
1785.00	.42	.42	.42	.42	.42
1790.00	.42	.42	.42	.42	.42
1795.00	.42	.42	.42	.42	.42
1800.00	.42	.42	.42	.42	.42
1805.00	.42	.42	.42	.42	.42
1810.00	.41	.41	.41	.41	.41
1815.00	.41	.41	.41	.41	.41
1820.00	.41	.41	.41	.41	.41
1825.00	.41	.41	.41	.41	.41
1830.00	.41	.41	.41	.41	.41
1835.00	.41	.41	.41	.41	.41
1840.00	.41	.41	.41	.41	.41
1845.00	.41	.41	.41	.41	.41
1850.00	.41	.41	.41	.41	.41
1855.00	.41	.40	.40	.40	.40
1860.00	.40	.40	.40	.40	.40
1865.00	.40	.40	.40	.40	.40
1870.00	.40	.40	.40	.40	.40
1875.00	.40	.40	.40	.40	.40
1880.00	.40	.40	.40	.40	.40
1885.00	.40	.40	.40	.40	.40
1890.00	.40	.40	.40	.40	.40
1895.00	.40	.40	.40	.40	.40
1900.00	.40	.40	.40	.39	.39
1905.00	.39	.39	.39	.39	.39
1910.00	.39	.39	.39	.39	.39
1915.00	.39	.39	.39	.39	.39
1920.00	.39	.39	.39	.39	.39
1925.00	.39	.39	.39	.39	.39

1930.00	.39	.39	.39	.39	.39
1935.00	.39	.39	.39	.39	.39
1940.00	.39	.39	.39	.39	.39
1945.00	.39	.38	.38	.38	.38
1950.00	.38	.38	.38	.38	.38
1955.00	.38	.38	.38	.38	.38
1960.00	.38	.38	.38	.38	.38
1965.00	.38	.38	.38	.38	.38
1970.00	.38	.38	.38	.38	.38

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1975.00	.37	.37	.37	.37	.37
1980.00	.37	.37	.37	.37	.37
1985.00	.37	.37	.37	.37	.37
1990.00	.37	.37	.37	.37	.37
1995.00	.37	.37	.37	.37	.37
2000.00	.37	.37	.37	.37	.36
2005.00	.36	.36	.36	.36	.36
2010.00	.36	.36	.36	.36	.36
2015.00	.36	.36	.36	.36	.36
2020.00	.36	.36	.36	.36	.36
2025.00	.36	.36	.36	.36	.36
2030.00	.36	.36	.36	.36	.35
2035.00	.35	.35	.35	.35	.35
2040.00	.35	.35	.35	.35	.35
2045.00	.35	.35	.35	.35	.35
2050.00	.35	.35	.35	.35	.35
2055.00	.35	.35	.35	.35	.35
2060.00	.35	.35	.35	.35	.35
2065.00	.34	.34	.34	.34	.34
2070.00	.34	.34	.34	.34	.34
2075.00	.34	.34	.34	.34	.34
2080.00	.34	.34	.34	.34	.34
2085.00	.34	.34	.34	.34	.34
2090.00	.34	.34	.34	.34	.34
2095.00	.34	.34	.33	.33	.33
2100.00	.33	.33	.33	.33	.33
2105.00	.33	.33	.33	.33	.33
2110.00	.33	.33	.33	.33	.33

2115.00		.33	.33	.33	.33	.33
2120.00		.33	.33	.33	.33	.33
2125.00		.33	.33	.33	.33	.33
2130.00		.32	.32	.32	.32	.32
2135.00		.32	.32	.32	.32	.32
2140.00		.32	.32	.32	.32	.32
2145.00		.32	.32	.32	.32	.32
2150.00		.32	.32	.32	.32	.32
2155.00		.32	.32	.32	.32	.32
2160.00		.32	.32	.32	.32	.32
2165.00		.32	.32	.32	.32	.32
2170.00		.32	.32	.32	.32	.32
2175.00		.32	.32	.32	.32	.32
2180.00		.32	.32	.32	.31	.31
2185.00		.31	.31	.31	.31	.31
2190.00		.31	.31	.31	.31	.31
2195.00		.31	.31	.31	.31	.31

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUTFALL

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
2200.00	.31	.31	.31	.31	.31
2205.00	.31	.31	.31	.31	.31
2210.00	.31	.31	.31	.31	.31
2215.00	.31	.31	.31	.31	.31
2220.00	.31	.31	.31	.31	.31
2225.00	.31	.31	.31	.31	.31
2230.00	.31	.31	.31	.31	.31
2235.00	.31	.31	.31	.31	.31
2240.00	.31	.31	.31	.31	

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time-Elev

Page 9.01

Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
535.00	949.00	949.00	949.00	949.00	949.01
540.00	949.01	949.01	949.02	949.02	949.03
545.00	949.03	949.04	949.05	949.05	949.06
550.00	949.07	949.08	949.09	949.10	949.11
555.00	949.12	949.14	949.15	949.16	949.17
560.00	949.18	949.20	949.21	949.22	949.23
565.00	949.25	949.25	949.26	949.26	949.26
570.00	949.27	949.27	949.28	949.28	949.29
575.00	949.29	949.30	949.30	949.31	949.32
580.00	949.32	949.33	949.34	949.35	949.36
585.00	949.37	949.38	949.39	949.40	949.41
590.00	949.42	949.43	949.44	949.46	949.47
595.00	949.48	949.50	949.50	949.51	949.52
600.00	949.52	949.53	949.54	949.54	949.55
605.00	949.56	949.57	949.58	949.59	949.59
610.00	949.60	949.61	949.62	949.63	949.65
615.00	949.66	949.67	949.68	949.69	949.70
620.00	949.72	949.73	949.74	949.75	949.76
625.00	949.77	949.78	949.79	949.79	949.80
630.00	949.81	949.82	949.83	949.84	949.85
635.00	949.86	949.87	949.88	949.90	949.91
640.00	949.92	949.93	949.94	949.96	949.97
645.00	949.98	950.00	950.01	950.02	950.03
650.00	950.04	950.05	950.06	950.07	950.08
655.00	950.09	950.10	950.11	950.12	950.13
660.00	950.15	950.16	950.17	950.19	950.20
665.00	950.21	950.23	950.24	950.26	950.27
670.00	950.28	950.29	950.30	950.31	950.33
675.00	950.34	950.35	950.37	950.38	950.40
680.00	950.42	950.43	950.45	950.47	950.49
685.00	950.51	950.52	950.54	950.55	950.57
690.00	950.58	950.60	950.62	950.64	950.66
695.00	950.69	950.71	950.74	950.77	950.79
700.00	950.82	950.86	950.90	950.94	950.99
705.00	951.04	951.10	951.16	951.23	951.30
710.00	951.38	951.47	951.56	951.66	951.77
715.00	951.88	952.00	952.13	952.26	952.39
720.00	952.53	952.66	952.79	952.92	953.03
725.00	953.13	953.21	953.29	953.35	953.41
730.00	953.45	953.49	953.52	953.54	953.56
735.00	953.57	953.58	953.58	953.59	953.59
740.00	953.58	953.58	953.57	953.56	953.55
745.00	953.54	953.53	953.51	953.50	953.48

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Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
750.00	953.47	953.45	953.44	953.42	953.40
755.00	953.39	953.37	953.35	953.34	953.32
760.00	953.31	953.29	953.28	953.27	953.25
765.00	953.24	953.23	953.21	953.20	953.19
770.00	953.18	953.17	953.16	953.15	953.14
775.00	953.13	953.12	953.11	953.10	953.09
780.00	953.09	953.08	953.07	953.07	953.06
785.00	953.05	953.05	953.04	953.04	953.03
790.00	953.03	953.02	953.02	953.01	953.01
795.00	953.00	953.00	953.00	952.99	952.99
800.00	952.99	952.98	952.98	952.98	952.97
805.00	952.97	952.97	952.97	952.96	952.96
810.00	952.96	952.96	952.95	952.95	952.95
815.00	952.95	952.95	952.94	952.94	952.94
820.00	952.94	952.94	952.93	952.93	952.93
825.00	952.93	952.93	952.93	952.93	952.92
830.00	952.92	952.92	952.92	952.92	952.92
835.00	952.92	952.92	952.92	952.91	952.91
840.00	952.91	952.91	952.91	952.91	952.91
845.00	952.91	952.91	952.90	952.90	952.90
850.00	952.90	952.90	952.90	952.90	952.90
855.00	952.90	952.90	952.90	952.90	952.89
860.00	952.89	952.89	952.89	952.89	952.89
865.00	952.89	952.89	952.89	952.89	952.89
870.00	952.89	952.89	952.89	952.89	952.89
875.00	952.89	952.89	952.88	952.88	952.88
880.00	952.88	952.88	952.88	952.88	952.88
885.00	952.88	952.88	952.88	952.88	952.88
890.00	952.88	952.88	952.88	952.88	952.88
895.00	952.88	952.88	952.88	952.88	952.88
900.00	952.88	952.88	952.88	952.88	952.88
905.00	952.88	952.87	952.87	952.87	952.87
910.00	952.87	952.87	952.87	952.87	952.87
915.00	952.87	952.87	952.87	952.87	952.87
920.00	952.87	952.87	952.87	952.87	952.87
925.00	952.87	952.87	952.87	952.87	952.87
930.00	952.87	952.87	952.87	952.87	952.87
935.00	952.87	952.87	952.87	952.87	952.87
940.00	952.86	952.86	952.86	952.86	952.86
945.00	952.86	952.86	952.86	952.86	952.86

950.00	952.86	952.86	952.86	952.86	952.86
955.00	952.86	952.86	952.86	952.86	952.86
960.00	952.86	952.86	952.86	952.86	952.86
965.00	952.86	952.86	952.86	952.86	952.86

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
970.00	952.86	952.86	952.86	952.85	952.85
975.00	952.85	952.85	952.85	952.85	952.85
980.00	952.85	952.85	952.85	952.85	952.85
985.00	952.85	952.85	952.85	952.85	952.85
990.00	952.85	952.85	952.85	952.85	952.85
995.00	952.85	952.85	952.85	952.85	952.85
1000.00	952.85	952.85	952.85	952.85	952.85
1005.00	952.85	952.85	952.85	952.85	952.85
1010.00	952.85	952.85	952.85	952.85	952.85
1015.00	952.85	952.85	952.85	952.85	952.85
1020.00	952.85	952.85	952.85	952.85	952.85
1025.00	952.85	952.85	952.85	952.85	952.85
1030.00	952.85	952.85	952.85	952.85	952.85
1035.00	952.85	952.85	952.85	952.85	952.84
1040.00	952.84	952.84	952.84	952.84	952.84
1045.00	952.84	952.84	952.84	952.84	952.84
1050.00	952.84	952.84	952.84	952.84	952.84
1055.00	952.84	952.84	952.84	952.84	952.84
1060.00	952.84	952.84	952.84	952.84	952.84
1065.00	952.84	952.84	952.84	952.84	952.84
1070.00	952.84	952.84	952.84	952.84	952.84
1075.00	952.84	952.84	952.84	952.84	952.84
1080.00	952.84	952.84	952.84	952.84	952.84
1085.00	952.84	952.84	952.84	952.84	952.84
1090.00	952.84	952.84	952.84	952.84	952.84
1095.00	952.84	952.84	952.84	952.84	952.84
1100.00	952.84	952.84	952.84	952.84	952.84
1105.00	952.84	952.84	952.84	952.84	952.84
1110.00	952.84	952.84	952.84	952.84	952.84
1115.00	952.84	952.84	952.84	952.84	952.84
1120.00	952.84	952.84	952.84	952.84	952.84
1125.00	952.84	952.84	952.84	952.84	952.84

1130.00	952.84	952.83	952.83	952.83	952.83
1135.00	952.83	952.83	952.83	952.83	952.83
1140.00	952.83	952.83	952.83	952.83	952.83
1145.00	952.83	952.83	952.83	952.83	952.83
1150.00	952.83	952.83	952.83	952.83	952.83
1155.00	952.83	952.83	952.83	952.83	952.83
1160.00	952.83	952.83	952.83	952.83	952.83
1165.00	952.83	952.83	952.83	952.83	952.83
1170.00	952.83	952.83	952.83	952.83	952.83
1175.00	952.83	952.83	952.83	952.83	952.83
1180.00	952.83	952.83	952.83	952.83	952.83
1185.00	952.83	952.83	952.83	952.83	952.83

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1190.00	952.83	952.83	952.83	952.83	952.83
1195.00	952.83	952.83	952.83	952.83	952.83
1200.00	952.83	952.83	952.83	952.83	952.83
1205.00	952.83	952.83	952.83	952.83	952.83
1210.00	952.83	952.83	952.83	952.83	952.83
1215.00	952.83	952.83	952.83	952.83	952.83
1220.00	952.82	952.82	952.82	952.82	952.82
1225.00	952.82	952.82	952.82	952.82	952.82
1230.00	952.82	952.82	952.82	952.82	952.82
1235.00	952.82	952.82	952.82	952.82	952.82
1240.00	952.82	952.82	952.82	952.82	952.82
1245.00	952.82	952.82	952.82	952.82	952.82
1250.00	952.82	952.82	952.82	952.82	952.82
1255.00	952.82	952.82	952.82	952.82	952.82
1260.00	952.82	952.82	952.82	952.82	952.82
1265.00	952.82	952.82	952.82	952.82	952.82
1270.00	952.82	952.82	952.82	952.82	952.82
1275.00	952.82	952.82	952.82	952.82	952.82
1280.00	952.82	952.82	952.82	952.82	952.82
1285.00	952.82	952.82	952.82	952.82	952.82
1290.00	952.82	952.82	952.82	952.82	952.82
1295.00	952.82	952.82	952.82	952.82	952.82
1300.00	952.82	952.82	952.82	952.82	952.82
1305.00	952.82	952.82	952.82	952.82	952.82

1310.00	952.82	952.82	952.82	952.82	952.82
1315.00	952.82	952.82	952.82	952.82	952.82
1320.00	952.82	952.82	952.82	952.82	952.82
1325.00	952.82	952.82	952.82	952.82	952.82
1330.00	952.82	952.82	952.82	952.82	952.82
1335.00	952.82	952.82	952.82	952.82	952.82
1340.00	952.82	952.82	952.82	952.82	952.82
1345.00	952.82	952.82	952.82	952.82	952.82
1350.00	952.82	952.82	952.82	952.82	952.82
1355.00	952.82	952.82	952.82	952.82	952.82
1360.00	952.82	952.82	952.82	952.82	952.82
1365.00	952.82	952.82	952.82	952.82	952.82
1370.00	952.82	952.82	952.82	952.82	952.82
1375.00	952.82	952.82	952.82	952.82	952.82
1380.00	952.82	952.82	952.82	952.82	952.82
1385.00	952.82	952.82	952.82	952.82	952.82
1390.00	952.82	952.82	952.82	952.82	952.82
1395.00	952.82	952.82	952.82	952.82	952.82
1400.00	952.82	952.82	952.82	952.82	952.82
1405.00	952.82	952.82	952.82	952.82	952.82

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1410.00	952.82	952.82	952.82	952.82	952.82
1415.00	952.82	952.82	952.82	952.82	952.82
1420.00	952.82	952.82	952.82	952.82	952.82
1425.00	952.82	952.82	952.82	952.82	952.82
1430.00	952.82	952.82	952.82	952.82	952.82
1435.00	952.82	952.82	952.82	952.82	952.82
1440.00	952.82	952.82	952.82	952.82	952.82
1445.00	952.82	952.82	952.82	952.82	952.82
1450.00	952.82	952.82	952.81	952.81	952.81
1455.00	952.81	952.81	952.81	952.81	952.81
1460.00	952.81	952.81	952.81	952.80	952.80
1465.00	952.80	952.80	952.80	952.80	952.80
1470.00	952.80	952.80	952.80	952.80	952.79
1475.00	952.79	952.79	952.79	952.79	952.79
1480.00	952.79	952.79	952.79	952.78	952.78
1485.00	952.78	952.78	952.78	952.78	952.78

1490.00	952.78	952.78	952.77	952.77	952.77
1495.00	952.77	952.77	952.77	952.77	952.77
1500.00	952.77	952.76	952.76	952.76	952.76
1505.00	952.76	952.76	952.76	952.76	952.75
1510.00	952.75	952.75	952.75	952.75	952.75
1515.00	952.75	952.75	952.74	952.74	952.74
1520.00	952.74	952.74	952.74	952.74	952.74
1525.00	952.73	952.73	952.73	952.73	952.73
1530.00	952.73	952.73	952.73	952.72	952.72
1535.00	952.72	952.72	952.72	952.72	952.72
1540.00	952.71	952.71	952.71	952.71	952.71
1545.00	952.71	952.71	952.71	952.70	952.70
1550.00	952.70	952.70	952.70	952.70	952.70
1555.00	952.70	952.69	952.69	952.69	952.69
1560.00	952.69	952.69	952.69	952.69	952.68
1565.00	952.68	952.68	952.68	952.68	952.68
1570.00	952.68	952.68	952.67	952.67	952.67
1575.00	952.67	952.67	952.67	952.67	952.67
1580.00	952.66	952.66	952.66	952.66	952.66
1585.00	952.66	952.66	952.66	952.65	952.65
1590.00	952.65	952.65	952.65	952.65	952.65
1595.00	952.65	952.64	952.64	952.64	952.64
1600.00	952.64	952.64	952.64	952.64	952.63
1605.00	952.63	952.63	952.63	952.63	952.63
1610.00	952.63	952.63	952.62	952.62	952.62
1615.00	952.62	952.62	952.62	952.62	952.62
1620.00	952.62	952.61	952.61	952.61	952.61
1625.00	952.61	952.61	952.61	952.61	952.60

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1630.00	952.60	952.60	952.60	952.60	952.60
1635.00	952.60	952.60	952.59	952.59	952.59
1640.00	952.59	952.59	952.59	952.59	952.59
1645.00	952.58	952.58	952.58	952.58	952.58
1650.00	952.58	952.58	952.58	952.57	952.57
1655.00	952.57	952.57	952.57	952.57	952.57
1660.00	952.57	952.57	952.56	952.56	952.56
1665.00	952.56	952.56	952.56	952.56	952.56

1670.00	952.55	952.55	952.55	952.55	952.55
1675.00	952.55	952.55	952.55	952.54	952.54
1680.00	952.54	952.54	952.54	952.54	952.54
1685.00	952.54	952.53	952.53	952.53	952.53
1690.00	952.53	952.53	952.53	952.53	952.53
1695.00	952.52	952.52	952.52	952.52	952.52
1700.00	952.52	952.52	952.52	952.51	952.51
1705.00	952.51	952.51	952.51	952.51	952.51
1710.00	952.51	952.51	952.50	952.50	952.50
1715.00	952.50	952.50	952.50	952.50	952.50
1720.00	952.49	952.49	952.49	952.49	952.49
1725.00	952.49	952.49	952.48	952.48	952.48
1730.00	952.48	952.48	952.48	952.48	952.48
1735.00	952.47	952.47	952.47	952.47	952.47
1740.00	952.47	952.47	952.47	952.46	952.46
1745.00	952.46	952.46	952.46	952.46	952.46
1750.00	952.46	952.45	952.45	952.45	952.45
1755.00	952.45	952.45	952.45	952.45	952.44
1760.00	952.44	952.44	952.44	952.44	952.44
1765.00	952.44	952.44	952.43	952.43	952.43
1770.00	952.43	952.43	952.43	952.43	952.43
1775.00	952.42	952.42	952.42	952.42	952.42
1780.00	952.42	952.42	952.42	952.41	952.41
1785.00	952.41	952.41	952.41	952.41	952.41
1790.00	952.41	952.40	952.40	952.40	952.40
1795.00	952.40	952.40	952.40	952.40	952.39
1800.00	952.39	952.39	952.39	952.39	952.39
1805.00	952.39	952.39	952.38	952.38	952.38
1810.00	952.38	952.38	952.38	952.38	952.38
1815.00	952.37	952.37	952.37	952.37	952.37
1820.00	952.37	952.37	952.37	952.36	952.36
1825.00	952.36	952.36	952.36	952.36	952.36
1830.00	952.36	952.35	952.35	952.35	952.35
1835.00	952.35	952.35	952.35	952.35	952.34
1840.00	952.34	952.34	952.34	952.34	952.34
1845.00	952.34	952.34	952.34	952.33	952.33

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PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.
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1850.00	952.33	952.33	952.33	952.33	952.33
1855.00	952.33	952.32	952.32	952.32	952.32
1860.00	952.32	952.32	952.32	952.32	952.31
1865.00	952.31	952.31	952.31	952.31	952.31
1870.00	952.31	952.31	952.31	952.30	952.30
1875.00	952.30	952.30	952.30	952.30	952.30
1880.00	952.30	952.29	952.29	952.29	952.29
1885.00	952.29	952.29	952.29	952.29	952.28
1890.00	952.28	952.28	952.28	952.28	952.28
1895.00	952.28	952.28	952.28	952.27	952.27
1900.00	952.27	952.27	952.27	952.27	952.27
1905.00	952.27	952.26	952.26	952.26	952.26
1910.00	952.26	952.26	952.26	952.26	952.26
1915.00	952.25	952.25	952.25	952.25	952.25
1920.00	952.25	952.25	952.25	952.24	952.24
1925.00	952.24	952.24	952.24	952.24	952.24
1930.00	952.24	952.23	952.23	952.23	952.23
1935.00	952.23	952.23	952.23	952.23	952.22
1940.00	952.22	952.22	952.22	952.22	952.22
1945.00	952.22	952.22	952.21	952.21	952.21
1950.00	952.21	952.21	952.21	952.21	952.21
1955.00	952.20	952.20	952.20	952.20	952.20
1960.00	952.20	952.20	952.20	952.19	952.19
1965.00	952.19	952.19	952.19	952.19	952.19
1970.00	952.19	952.18	952.18	952.18	952.18
1975.00	952.18	952.18	952.18	952.18	952.17
1980.00	952.17	952.17	952.17	952.17	952.17
1985.00	952.17	952.17	952.17	952.16	952.16
1990.00	952.16	952.16	952.16	952.16	952.16
1995.00	952.16	952.15	952.15	952.15	952.15
2000.00	952.15	952.15	952.15	952.15	952.15
2005.00	952.14	952.14	952.14	952.14	952.14
2010.00	952.14	952.14	952.14	952.13	952.13
2015.00	952.13	952.13	952.13	952.13	952.13
2020.00	952.13	952.13	952.12	952.12	952.12
2025.00	952.12	952.12	952.12	952.12	952.12
2030.00	952.11	952.11	952.11	952.11	952.11
2035.00	952.11	952.11	952.11	952.11	952.10
2040.00	952.10	952.10	952.10	952.10	952.10
2045.00	952.10	952.10	952.10	952.09	952.09
2050.00	952.09	952.09	952.09	952.09	952.09
2055.00	952.09	952.08	952.08	952.08	952.08
2060.00	952.08	952.08	952.08	952.08	952.08
2065.00	952.07	952.07	952.07	952.07	952.07

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time-Elev

Name.... MAIN DET OUT Tag: 2

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Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2070.00	952.07	952.07	952.07	952.07	952.06
2075.00	952.06	952.06	952.06	952.06	952.06
2080.00	952.06	952.06	952.06	952.05	952.05
2085.00	952.05	952.05	952.05	952.05	952.05
2090.00	952.05	952.05	952.04	952.04	952.04
2095.00	952.04	952.04	952.04	952.04	952.04
2100.00	952.04	952.04	952.03	952.03	952.03
2105.00	952.03	952.03	952.03	952.03	952.03
2110.00	952.03	952.02	952.02	952.02	952.02
2115.00	952.02	952.02	952.02	952.02	952.02
2120.00	952.01	952.01	952.01	952.01	952.01
2125.00	952.01	952.01	952.01	952.01	952.01
2130.00	952.00	952.00	952.00	952.00	952.00
2135.00	952.00	952.00	952.00	952.00	951.99
2140.00	951.99	951.99	951.99	951.99	951.99
2145.00	951.99	951.99	951.98	951.98	951.98
2150.00	951.98	951.98	951.98	951.98	951.98
2155.00	951.98	951.97	951.97	951.97	951.97
2160.00	951.97	951.97	951.97	951.97	951.96
2165.00	951.96	951.96	951.96	951.96	951.96
2170.00	951.96	951.96	951.96	951.95	951.95
2175.00	951.95	951.95	951.95	951.95	951.95
2180.00	951.95	951.94	951.94	951.94	951.94
2185.00	951.94	951.94	951.94	951.94	951.94
2190.00	951.93	951.93	951.93	951.93	951.93
2195.00	951.93	951.93	951.93	951.93	951.92
2200.00	951.92	951.92	951.92	951.92	951.92
2205.00	951.92	951.92	951.91	951.91	951.91
2210.00	951.91	951.91	951.91	951.91	951.91
2215.00	951.91	951.90	951.90	951.90	951.90
2220.00	951.90	951.90	951.90	951.90	951.90
2225.00	951.89	951.89	951.89	951.89	951.89
2230.00	951.89	951.89	951.89	951.88	951.88
2235.00	951.88	951.88	951.88	951.88	951.88
2240.00	951.88	951.88	951.87	951.87	951.87
2245.00	951.87	951.87	951.87	951.87	951.87
2250.00	951.87	951.86	951.86	951.86	951.86
2255.00	951.86	951.86	951.86	951.86	951.86
2260.00	951.85	951.85	951.85	951.85	951.85
2265.00	951.85	951.85	951.85	951.84	951.84
2270.00	951.84	951.84	951.84	951.84	951.84
2275.00	951.84	951.84	951.83	951.83	951.83

2280.00		951.83	951.83	951.83	951.83	951.83
2285.00		951.83	951.82	951.82	951.82	951.82

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2290.00	951.82	951.82	951.82	951.82	951.82
2295.00	951.81	951.81	951.81	951.81	951.81
2300.00	951.81	951.81	951.81	951.81	951.80
2305.00	951.80	951.80	951.80	951.80	951.80
2310.00	951.80	951.80	951.80	951.79	951.79
2315.00	951.79	951.79	951.79	951.79	951.79
2320.00	951.79	951.79	951.78	951.78	951.78
2325.00	951.78	951.78	951.78	951.78	951.78
2330.00	951.78	951.77	951.77	951.77	951.77
2335.00	951.77	951.77	951.77	951.77	951.77
2340.00	951.76	951.76	951.76	951.76	951.76
2345.00	951.76	951.76	951.76	951.76	951.75
2350.00	951.75	951.75	951.75	951.75	951.75
2355.00	951.75	951.75	951.74	951.74	951.74
2360.00	951.74	951.74	951.74	951.74	951.74
2365.00	951.73	951.73	951.73	951.73	951.73
2370.00	951.73	951.73	951.73	951.72	951.72
2375.01	951.72	951.72	951.72	951.72	951.72
2380.00	951.72	951.71	951.71	951.71	951.71
2385.00	951.71	951.71	951.71	951.71	951.70
2390.01	951.70	951.70	951.70	951.70	951.70
2395.00	951.70	951.70	951.69	951.69	951.69
2400.00	951.69	951.69	951.69	951.69	951.69
2405.01	951.68	951.68	951.68	951.68	951.68
2410.00	951.68	951.68	951.68	951.67	951.67
2415.01	951.67	951.67	951.67	951.67	951.67
2420.01	951.67	951.66	951.66	951.66	951.66
2425.00	951.66	951.66	951.66	951.66	951.65
2430.01	951.65	951.65	951.65	951.65	951.65
2435.01	951.65	951.65	951.64	951.64	951.64
2440.00	951.64	951.64	951.64	951.64	951.64
2445.01	951.63	951.63	951.63	951.63	951.63
2450.01	951.63	951.63	951.63	951.62	951.62
2455.01	951.62	951.62	951.62	951.62	951.62

2460.01	951.62	951.61	951.61	951.61	951.61
2465.01	951.61	951.61	951.61	951.61	951.60
2470.01	951.60	951.60	951.60	951.60	951.60
2475.01	951.60	951.60	951.60	951.59	951.59
2480.01	951.59	951.59	951.59	951.59	951.59
2485.01	951.59	951.58	951.58	951.58	951.58
2490.01	951.58	951.58	951.58	951.58	951.57
2495.01	951.57	951.57	951.57	951.57	951.57
2500.01	951.57	951.57	951.56	951.56	951.56
2505.01	951.56	951.56	951.56	951.56	951.56

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time-Elev Page 9.10
Name.... MAIN DET OUT Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2510.01	951.56	951.55	951.55	951.55	951.55
2515.01	951.55	951.55	951.55	951.55	951.54
2520.01	951.54	951.54	951.54	951.54	951.54
2525.01	951.54	951.54	951.53	951.53	951.53
2530.01	951.53	951.53	951.53	951.53	951.53
2535.01	951.53				

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PondPack Ver: Compute Time:

Date:



Type.... Time-Elev Page 9.11
Name.... MAIN DET OUT Tag: 10 yr Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
357.00	949.00	949.00	949.00	949.00	949.01
362.00	949.01	949.01	949.02	949.02	949.03
367.00	949.04	949.04	949.05	949.06	949.07
372.00	949.08	949.09	949.10	949.12	949.13
377.00	949.14	949.15	949.17	949.18	949.19
382.00	949.21	949.22	949.23	949.25	949.25

387.00	949.26	949.26	949.26	949.27	949.27
392.00	949.28	949.28	949.29	949.30	949.30
397.00	949.31	949.32	949.33	949.34	949.35
402.00	949.35	949.36	949.37	949.38	949.39
407.00	949.41	949.42	949.43	949.44	949.45
412.00	949.46	949.48	949.49	949.50	949.51
417.00	949.51	949.52	949.53	949.53	949.54
422.00	949.54	949.55	949.56	949.57	949.57
427.00	949.58	949.59	949.60	949.60	949.61
432.00	949.62	949.63	949.64	949.65	949.66
437.00	949.67	949.68	949.69	949.70	949.71
442.00	949.72	949.73	949.74	949.75	949.75
447.00	949.76	949.77	949.77	949.78	949.79
452.00	949.79	949.80	949.80	949.81	949.82
457.00	949.83	949.83	949.84	949.85	949.85
462.00	949.86	949.87	949.88	949.89	949.89
467.00	949.90	949.91	949.92	949.93	949.94
472.00	949.94	949.95	949.96	949.97	949.98
477.00	949.99	950.00	950.00	950.01	950.02
482.00	950.02	950.03	950.03	950.04	950.05
487.00	950.05	950.06	950.07	950.07	950.08
492.00	950.09	950.09	950.10	950.11	950.11
497.00	950.12	950.13	950.14	950.14	950.15
502.00	950.16	950.17	950.18	950.18	950.19
507.00	950.20	950.21	950.22	950.23	950.24
512.00	950.25	950.26	950.26	950.27	950.28
517.00	950.28	950.29	950.30	950.31	950.31
522.00	950.32	950.33	950.34	950.35	950.36
527.00	950.36	950.37	950.38	950.39	950.40
532.00	950.41	950.42	950.43	950.44	950.45
537.00	950.47	950.48	950.49	950.50	950.51
542.00	950.52	950.53	950.53	950.54	950.55
547.00	950.56	950.57	950.58	950.59	950.60
552.00	950.61	950.62	950.63	950.64	950.65
557.00	950.66	950.68	950.69	950.70	950.71
562.00	950.72	950.73	950.74	950.75	950.76
567.00	950.77	950.78	950.79	950.80	950.81

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time	Output Time increment = 1.00 min
min	Time on left represents time for first value in each row.

572.00	950.82	950.83	950.84	950.85	950.86
577.00	950.87	950.88	950.89	950.90	950.91
582.00	950.92	950.93	950.94	950.95	950.96
587.00	950.98	950.99	951.00	951.01	951.02
592.00	951.03	951.04	951.05	951.06	951.07
597.00	951.08	951.09	951.10	951.11	951.12
602.00	951.13	951.15	951.16	951.17	951.18
607.00	951.19	951.21	951.22	951.23	951.25
612.00	951.26	951.27	951.28	951.29	951.30
617.00	951.32	951.33	951.34	951.35	951.37
622.00	951.38	951.39	951.41	951.42	951.44
627.00	951.45	951.46	951.48	951.49	951.51
632.00	951.52	951.54	951.55	951.56	951.58
637.00	951.59	951.61	951.62	951.64	951.65
642.00	951.67	951.68	951.70	951.72	951.73
647.00	951.75	951.77	951.78	951.80	951.81
652.00	951.83	951.85	951.86	951.88	951.90
657.00	951.92	951.93	951.95	951.97	951.99
662.00	952.01	952.03	952.04	952.06	952.08
667.00	952.10	952.12	952.14	952.16	952.18
672.00	952.20	952.22	952.24	952.27	952.29
677.00	952.31	952.33	952.35	952.38	952.40
682.00	952.42	952.45	952.47	952.50	952.52
687.00	952.55	952.57	952.60	952.63	952.65
692.00	952.68	952.71	952.74	952.77	952.81
697.00	952.84	952.87	952.90	952.94	952.98
702.00	953.02	953.06	953.10	953.15	953.20
707.00	953.26	953.32	953.38	953.46	953.54
712.00	953.62	953.72	953.82	953.94	954.06
717.00	954.19	954.32	954.46	954.60	954.74
722.00	954.87	955.00	955.11	955.22	955.31
727.00	955.39	955.46	955.52	955.56	955.58
732.00	955.60	955.61	955.61	955.60	955.58
737.00	955.56	955.54	955.51	955.47	955.43
742.00	955.39	955.35	955.30	955.25	955.20
747.00	955.15	955.09	955.04	954.98	954.93
752.00	954.87	954.81	954.76	954.70	954.65
757.00	954.59	954.54	954.49	954.44	954.39
762.00	954.34	954.29	954.24	954.20	954.15
767.00	954.11	954.07	954.03	953.99	953.95
772.00	953.92	953.88	953.85	953.81	953.78
777.00	953.75	953.72	953.70	953.67	953.64
782.00	953.62	953.59	953.57	953.55	953.53
787.00	953.51	953.49	953.47	953.45	953.44

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time-Elev

Name.... MAIN DET OUT Tag: 10 yr Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
792.00	953.42	953.41	953.39	953.38	953.36
797.00	953.35	953.34	953.33	953.32	953.31
802.00	953.29	953.29	953.28	953.27	953.26
807.00	953.25	953.24	953.23	953.23	953.22
812.00	953.21	953.20	953.20	953.19	953.19
817.00	953.18	953.17	953.17	953.16	953.16
822.00	953.15	953.15	953.15	953.14	953.14
827.00	953.13	953.13	953.13	953.12	953.12
832.00	953.11	953.11	953.11	953.10	953.10
837.00	953.10	953.10	953.09	953.09	953.09
842.00	953.08	953.08	953.08	953.08	953.07
847.00	953.07	953.07	953.07	953.06	953.06
852.00	953.06	953.06	953.06	953.05	953.05
857.00	953.05	953.05	953.05	953.04	953.04
862.00	953.04	953.04	953.04	953.04	953.03
867.00	953.03	953.03	953.03	953.03	953.03
872.00	953.03	953.02	953.02	953.02	953.02
877.00	953.02	953.02	953.02	953.02	953.02
882.00	953.01	953.01	953.01	953.01	953.01
887.00	953.01	953.01	953.01	953.01	953.01
892.00	953.01	953.00	953.00	953.00	953.00
897.00	953.00	953.00	953.00	953.00	953.00
902.00	953.00	953.00	953.00	952.99	952.99
907.00	952.99	952.99	952.99	952.99	952.99
912.00	952.99	952.99	952.99	952.99	952.99
917.00	952.99	952.98	952.98	952.98	952.98
922.00	952.98	952.98	952.98	952.98	952.98
927.00	952.98	952.98	952.98	952.98	952.98
932.00	952.97	952.97	952.97	952.97	952.97
937.00	952.97	952.97	952.97	952.97	952.97
942.00	952.97	952.97	952.97	952.97	952.96
947.00	952.96	952.96	952.96	952.96	952.96
952.00	952.96	952.96	952.96	952.96	952.96
957.00	952.96	952.96	952.96	952.95	952.95
962.00	952.95	952.95	952.95	952.95	952.95
967.00	952.95	952.95	952.95	952.95	952.95
972.00	952.95	952.95	952.94	952.94	952.94
977.00	952.94	952.94	952.94	952.94	952.94
982.00	952.94	952.94	952.94	952.94	952.94
987.00	952.94	952.94	952.94	952.94	952.94
992.00	952.94	952.93	952.93	952.93	952.93

997.00		952.93	952.93	952.93	952.93	952.93
1002.00		952.93	952.93	952.93	952.93	952.93
1007.00		952.93	952.93	952.93	952.93	952.93

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1012.00	952.93	952.93	952.93	952.93	952.93
1017.00	952.93	952.93	952.93	952.93	952.93
1022.00	952.93	952.93	952.92	952.92	952.92
1027.00	952.92	952.92	952.92	952.92	952.92
1032.00	952.92	952.92	952.92	952.92	952.92
1037.00	952.92	952.92	952.92	952.92	952.92
1042.00	952.92	952.92	952.92	952.92	952.92
1047.00	952.92	952.92	952.92	952.92	952.92
1052.00	952.92	952.92	952.92	952.92	952.92
1057.00	952.92	952.92	952.92	952.92	952.92
1062.00	952.91	952.91	952.91	952.91	952.91
1067.00	952.91	952.91	952.91	952.91	952.91
1072.00	952.91	952.91	952.91	952.91	952.91
1077.00	952.91	952.91	952.91	952.91	952.91
1082.00	952.91	952.91	952.91	952.91	952.91
1087.00	952.91	952.91	952.91	952.91	952.91
1092.00	952.91	952.91	952.91	952.91	952.91
1097.00	952.91	952.91	952.91	952.91	952.90
1102.00	952.90	952.90	952.90	952.90	952.90
1107.00	952.90	952.90	952.90	952.90	952.90
1112.00	952.90	952.90	952.90	952.90	952.90
1117.00	952.90	952.90	952.90	952.90	952.90
1122.00	952.90	952.90	952.90	952.90	952.90
1127.00	952.90	952.90	952.90	952.90	952.90
1132.00	952.90	952.90	952.90	952.90	952.90
1137.00	952.90	952.90	952.89	952.89	952.89
1142.00	952.89	952.89	952.89	952.89	952.89
1147.00	952.89	952.89	952.89	952.89	952.89
1152.00	952.89	952.89	952.89	952.89	952.89
1157.00	952.89	952.89	952.89	952.89	952.89
1162.00	952.89	952.89	952.89	952.89	952.89
1167.00	952.89	952.89	952.89	952.89	952.89
1172.00	952.89	952.89	952.89	952.89	952.89

1177.00	952.88	952.88	952.88	952.88	952.88
1182.00	952.88	952.88	952.88	952.88	952.88
1187.00	952.88	952.88	952.88	952.88	952.88
1192.00	952.88	952.88	952.88	952.88	952.88
1197.00	952.88	952.88	952.88	952.88	952.88
1202.00	952.88	952.88	952.88	952.88	952.88
1207.00	952.88	952.88	952.88	952.88	952.88
1212.00	952.88	952.88	952.88	952.87	952.87
1217.00	952.87	952.87	952.87	952.87	952.87
1222.00	952.87	952.87	952.87	952.87	952.87
1227.00	952.87	952.87	952.87	952.87	952.87

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1232.00	952.87	952.87	952.87	952.87	952.87
1237.00	952.87	952.87	952.87	952.87	952.87
1242.00	952.87	952.87	952.87	952.87	952.87
1247.00	952.87	952.87	952.87	952.87	952.87
1252.00	952.87	952.87	952.87	952.87	952.87
1257.00	952.87	952.87	952.87	952.87	952.87
1262.00	952.87	952.87	952.87	952.87	952.87
1267.00	952.87	952.87	952.87	952.87	952.87
1272.00	952.87	952.87	952.87	952.87	952.87
1277.00	952.87	952.87	952.87	952.87	952.87
1282.00	952.87	952.87	952.87	952.87	952.87
1287.00	952.87	952.87	952.87	952.87	952.87
1292.00	952.87	952.87	952.87	952.87	952.87
1297.00	952.87	952.87	952.87	952.87	952.87
1302.00	952.87	952.87	952.87	952.87	952.87
1307.00	952.87	952.87	952.87	952.87	952.87
1312.00	952.87	952.87	952.87	952.87	952.87
1317.00	952.87	952.87	952.87	952.87	952.87
1322.00	952.87	952.87	952.87	952.87	952.87
1327.00	952.87	952.87	952.87	952.87	952.87
1332.00	952.87	952.87	952.87	952.87	952.87
1337.00	952.87	952.87	952.87	952.87	952.87
1342.00	952.87	952.87	952.87	952.87	952.87
1347.00	952.87	952.87	952.86	952.86	952.86
1352.00	952.86	952.86	952.86	952.86	952.86

1357.00	952.86	952.86	952.86	952.86	952.86
1362.00	952.86	952.86	952.86	952.86	952.86
1367.00	952.86	952.86	952.86	952.86	952.86
1372.00	952.86	952.86	952.86	952.86	952.86
1377.00	952.86	952.86	952.86	952.86	952.86
1382.00	952.86	952.86	952.86	952.86	952.86
1387.00	952.86	952.86	952.86	952.86	952.86
1392.00	952.86	952.86	952.86	952.86	952.86
1397.00	952.86	952.86	952.86	952.86	952.86
1402.00	952.86	952.86	952.86	952.86	952.86
1407.00	952.86	952.86	952.86	952.86	952.86
1412.00	952.86	952.86	952.86	952.86	952.86
1417.00	952.86	952.86	952.86	952.86	952.86
1422.00	952.86	952.86	952.86	952.86	952.86
1427.00	952.86	952.86	952.86	952.86	952.86
1432.00	952.86	952.86	952.86	952.86	952.86
1437.00	952.86	952.86	952.86	952.86	952.86
1442.00	952.86	952.86	952.86	952.86	952.86
1447.00	952.86	952.86	952.86	952.85	952.85

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1452.00	952.85	952.85	952.85	952.84	952.84
1457.00	952.84	952.84	952.84	952.83	952.83
1462.00	952.83	952.83	952.82	952.82	952.82
1467.00	952.82	952.82	952.82	952.81	952.81
1472.00	952.81	952.81	952.81	952.81	952.81
1477.00	952.80	952.80	952.80	952.80	952.80
1482.00	952.80	952.80	952.80	952.80	952.80
1487.00	952.79	952.79	952.79	952.79	952.79
1492.00	952.79	952.79	952.79	952.79	952.78
1497.00	952.78	952.78	952.78	952.78	952.78
1502.00	952.78	952.78	952.78	952.77	952.77
1507.00	952.77	952.77	952.77	952.77	952.77
1512.00	952.77	952.76	952.76	952.76	952.76
1517.00	952.76	952.76	952.76	952.76	952.75
1522.00	952.75	952.75	952.75	952.75	952.75
1527.00	952.75	952.75	952.74	952.74	952.74
1532.00	952.74	952.74	952.74	952.74	952.74

1537.00	952.73	952.73	952.73	952.73	952.73
1542.00	952.73	952.73	952.73	952.72	952.72
1547.00	952.72	952.72	952.72	952.72	952.72
1552.00	952.72	952.71	952.71	952.71	952.71
1557.00	952.71	952.71	952.71	952.71	952.70
1562.00	952.70	952.70	952.70	952.70	952.70
1567.00	952.70	952.70	952.69	952.69	952.69
1572.00	952.69	952.69	952.69	952.69	952.69
1577.00	952.68	952.68	952.68	952.68	952.68
1582.00	952.68	952.68	952.68	952.67	952.67
1587.00	952.67	952.67	952.67	952.67	952.67
1592.00	952.67	952.66	952.66	952.66	952.66
1597.00	952.66	952.66	952.66	952.66	952.65
1602.00	952.65	952.65	952.65	952.65	952.65
1607.00	952.65	952.65	952.64	952.64	952.64
1612.00	952.64	952.64	952.64	952.64	952.64
1617.00	952.63	952.63	952.63	952.63	952.63
1622.00	952.63	952.63	952.63	952.62	952.62
1627.00	952.62	952.62	952.62	952.62	952.62
1632.00	952.62	952.61	952.61	952.61	952.61
1637.00	952.61	952.61	952.61	952.61	952.60
1642.00	952.60	952.60	952.60	952.60	952.60
1647.00	952.60	952.60	952.59	952.59	952.59
1652.00	952.59	952.59	952.59	952.59	952.59
1657.00	952.59	952.58	952.58	952.58	952.58
1662.00	952.58	952.58	952.58	952.58	952.57
1667.00	952.57	952.57	952.57	952.57	952.57

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1672.00	952.57	952.57	952.56	952.56	952.56
1677.00	952.56	952.56	952.56	952.56	952.56
1682.00	952.55	952.55	952.55	952.55	952.55
1687.00	952.55	952.55	952.55	952.55	952.54
1692.00	952.54	952.54	952.54	952.54	952.54
1697.00	952.54	952.54	952.53	952.53	952.53
1702.00	952.53	952.53	952.53	952.53	952.53
1707.00	952.52	952.52	952.52	952.52	952.52
1712.00	952.52	952.52	952.52	952.52	952.51

1717.00	952.51	952.51	952.51	952.51	952.51
1722.00	952.51	952.51	952.50	952.50	952.50
1727.00	952.50	952.50	952.50	952.50	952.50
1732.00	952.49	952.49	952.49	952.49	952.49
1737.00	952.49	952.49	952.49	952.48	952.48
1742.00	952.48	952.48	952.48	952.48	952.48
1747.00	952.48	952.47	952.47	952.47	952.47
1752.00	952.47	952.47	952.47	952.47	952.46
1757.00	952.46	952.46	952.46	952.46	952.46
1762.00	952.46	952.45	952.45	952.45	952.45
1767.00	952.45	952.45	952.45	952.45	952.44
1772.00	952.44	952.44	952.44	952.44	952.44
1777.00	952.44	952.44	952.43	952.43	952.43
1782.00	952.43	952.43	952.43	952.43	952.43
1787.00	952.42	952.42	952.42	952.42	952.42
1792.00	952.42	952.42	952.42	952.41	952.41
1797.00	952.41	952.41	952.41	952.41	952.41
1802.00	952.41	952.40	952.40	952.40	952.40
1807.00	952.40	952.40	952.40	952.40	952.39
1812.00	952.39	952.39	952.39	952.39	952.39
1817.00	952.39	952.39	952.38	952.38	952.38
1822.00	952.38	952.38	952.38	952.38	952.38
1827.00	952.37	952.37	952.37	952.37	952.37
1832.00	952.37	952.37	952.37	952.36	952.36
1837.00	952.36	952.36	952.36	952.36	952.36
1842.00	952.36	952.36	952.35	952.35	952.35
1847.00	952.35	952.35	952.35	952.35	952.35
1852.00	952.34	952.34	952.34	952.34	952.34
1857.00	952.34	952.34	952.34	952.33	952.33
1862.00	952.33	952.33	952.33	952.33	952.33
1867.00	952.33	952.32	952.32	952.32	952.32
1872.00	952.32	952.32	952.32	952.32	952.32
1877.00	952.31	952.31	952.31	952.31	952.31
1882.00	952.31	952.31	952.31	952.30	952.30
1887.00	952.30	952.30	952.30	952.30	952.30

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1892.00	952.30	952.30	952.29	952.29	952.29

1897.00	952.29	952.29	952.29	952.29	952.29
1902.00	952.28	952.28	952.28	952.28	952.28
1907.00	952.28	952.28	952.28	952.27	952.27
1912.00	952.27	952.27	952.27	952.27	952.27
1917.00	952.27	952.27	952.26	952.26	952.26
1922.00	952.26	952.26	952.26	952.26	952.26
1927.00	952.25	952.25	952.25	952.25	952.25
1932.00	952.25	952.25	952.25	952.25	952.24
1937.00	952.24	952.24	952.24	952.24	952.24
1942.00	952.24	952.24	952.23	952.23	952.23
1947.00	952.23	952.23	952.23	952.23	952.22
1952.00	952.22	952.22	952.22	952.22	952.22
1957.00	952.22	952.22	952.21	952.21	952.21
1962.00	952.21	952.21	952.21	952.21	952.21
1967.00	952.21	952.20	952.20	952.20	952.20
1972.00	952.20	952.20	952.20	952.20	952.19
1977.00	952.19	952.19	952.19	952.19	952.19
1982.00	952.19	952.19	952.18	952.18	952.18
1987.00	952.18	952.18	952.18	952.18	952.18
1992.00	952.17	952.17	952.17	952.17	952.17
1997.00	952.17	952.17	952.17	952.16	952.16
2002.00	952.16	952.16	952.16	952.16	952.16
2007.00	952.16	952.16	952.15	952.15	952.15
2012.00	952.15	952.15	952.15	952.15	952.15
2017.00	952.14	952.14	952.14	952.14	952.14
2022.00	952.14	952.14	952.14	952.13	952.13
2027.00	952.13	952.13	952.13	952.13	952.13
2032.00	952.13	952.13	952.12	952.12	952.12
2037.00	952.12	952.12	952.12	952.12	952.12
2042.00	952.12	952.11	952.11	952.11	952.11
2047.00	952.11	952.11	952.11	952.11	952.10
2052.00	952.10	952.10	952.10	952.10	952.10
2057.00	952.10	952.10	952.10	952.09	952.09
2062.00	952.09	952.09	952.09	952.09	952.09
2067.00	952.09	952.09	952.08	952.08	952.08
2072.00	952.08	952.08	952.08	952.08	952.08
2077.00	952.08	952.07	952.07	952.07	952.07
2082.00	952.07	952.07	952.07	952.07	952.07
2087.00	952.06	952.06	952.06	952.06	952.06
2092.00	952.06	952.06	952.06	952.06	952.05
2097.00	952.05	952.05	952.05	952.05	952.05
2102.00	952.05	952.05	952.05	952.04	952.04
2107.00	952.04	952.04	952.04	952.04	952.04

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2112.00	952.04	952.04	952.03	952.03	952.03
2117.00	952.03	952.03	952.03	952.03	952.03
2122.00	952.03	952.02	952.02	952.02	952.02
2127.00	952.02	952.02	952.02	952.02	952.02
2132.00	952.02	952.01	952.01	952.01	952.01
2137.00	952.01	952.01	952.01	952.01	952.01
2142.00	952.00	952.00	952.00	952.00	952.00
2147.00	952.00	952.00	952.00	952.00	951.99
2152.00	951.99	951.99	951.99	951.99	951.99
2157.00	951.99	951.99	951.99	951.98	951.98
2162.00	951.98	951.98	951.98	951.98	951.98
2167.00	951.98	951.97	951.97	951.97	951.97
2172.00	951.97	951.97	951.97	951.97	951.97
2177.00	951.96	951.96	951.96	951.96	951.96
2182.00	951.96	951.96	951.96	951.95	951.95
2187.00	951.95	951.95	951.95	951.95	951.95
2192.00	951.95	951.95	951.94	951.94	951.94
2197.00	951.94	951.94	951.94	951.94	951.94
2202.00	951.93	951.93	951.93	951.93	951.93
2207.00	951.93	951.93	951.93	951.93	951.92
2212.00	951.92	951.92	951.92	951.92	951.92
2217.00	951.92	951.92	951.92	951.91	951.91
2222.00	951.91	951.91	951.91	951.91	951.91
2227.00	951.91	951.90	951.90	951.90	951.90
2232.00	951.90	951.90	951.90	951.90	951.90
2237.00	951.89	951.89	951.89	951.89	951.89
2242.00	951.89	951.89	951.89	951.89	951.88
2247.00	951.88	951.88	951.88	951.88	951.88
2252.00	951.88	951.88	951.87	951.87	951.87
2257.00	951.87	951.87	951.87	951.87	951.87
2262.00	951.87	951.86	951.86	951.86	951.86
2267.00	951.86	951.86	951.86	951.86	951.86
2272.00	951.85	951.85	951.85	951.85	951.85
2277.00	951.85	951.85	951.85	951.85	951.84
2282.00	951.84	951.84	951.84	951.84	951.84
2287.00	951.84	951.84	951.84	951.83	951.83
2292.00	951.83	951.83	951.83	951.83	951.83
2297.00	951.83	951.83	951.82	951.82	951.82
2302.00	951.82	951.82	951.82	951.82	951.82
2307.00	951.81	951.81	951.81	951.81	951.81
2312.00	951.81	951.81	951.81	951.81	951.80
2317.00	951.80	951.80	951.80	951.80	951.80
2322.00	951.80	951.80	951.80	951.79	951.79

2327.00 | 951.79 951.79 951.79 951.79 951.79

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Time-Elev Page 9.20
Name.... MAIN DET OUT Tag: 10 yr Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2332.00	951.79	951.79	951.78	951.78	951.78
2337.00	951.78	951.78	951.78	951.78	951.78
2342.00	951.78	951.77	951.77	951.77	951.77
2347.01	951.77	951.77	951.77	951.77	951.77
2352.00	951.76	951.76	951.76	951.76	951.76
2357.00	951.76				

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Time-Elev Page 9.21
Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
243.00	949.00	949.00	949.00	949.00	949.01
248.00	949.01	949.01	949.02	949.03	949.03
253.00	949.04	949.06	949.07	949.08	949.10
258.00	949.11	949.13	949.14	949.16	949.18
263.00	949.20	949.22	949.24	949.25	949.26
268.00	949.26	949.27	949.28	949.28	949.29
273.00	949.30	949.31	949.32	949.33	949.34
278.00	949.35	949.37	949.38	949.39	949.41
283.00	949.42	949.44	949.46	949.47	949.49
288.00	949.50	949.51	949.52	949.53	949.53
293.00	949.54	949.55	949.56	949.57	949.58
298.00	949.59	949.60	949.61	949.62	949.64
303.00	949.65	949.66	949.67	949.68	949.70
308.00	949.71	949.72	949.74	949.75	949.76
313.00	949.77	949.77	949.78	949.79	949.80

318.00	949.81	949.82	949.83	949.84	949.85
323.00	949.86	949.87	949.88	949.89	949.90
328.00	949.91	949.92	949.93	949.94	949.95
333.00	949.96	949.97	949.99	950.00	950.01
338.00	950.01	950.02	950.03	950.04	950.04
343.00	950.05	950.06	950.07	950.08	950.09
348.00	950.10	950.10	950.11	950.12	950.13
353.00	950.14	950.15	950.16	950.17	950.18
358.00	950.19	950.20	950.21	950.22	950.23
363.00	950.24	950.25	950.26	950.26	950.27
368.00	950.28	950.29	950.29	950.30	950.31
373.00	950.32	950.33	950.34	950.34	950.35
378.00	950.36	950.37	950.38	950.39	950.40
383.00	950.41	950.42	950.43	950.44	950.45
388.00	950.46	950.47	950.48	950.50	950.50
393.00	950.51	950.52	950.53	950.54	950.55
398.00	950.56	950.56	950.57	950.58	950.59
403.00	950.60	950.61	950.62	950.63	950.64
408.00	950.65	950.66	950.67	950.68	950.69
413.00	950.71	950.72	950.73	950.74	950.75
418.00	950.76	950.77	950.78	950.79	950.79
423.00	950.80	950.81	950.82	950.83	950.84
428.00	950.85	950.86	950.87	950.88	950.89
433.00	950.90	950.91	950.92	950.93	950.94
438.00	950.95	950.96	950.98	950.99	951.00
443.00	951.01	951.02	951.03	951.04	951.04
448.00	951.05	951.06	951.07	951.08	951.09
453.00	951.10	951.11	951.12	951.13	951.14

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
458.00	951.15	951.16	951.18	951.19	951.20
463.00	951.21	951.22	951.23	951.24	951.25
468.00	951.26	951.27	951.28	951.29	951.30
473.00	951.31	951.32	951.33	951.34	951.35
478.00	951.36	951.37	951.38	951.39	951.40
483.00	951.41	951.42	951.43	951.45	951.46
488.00	951.47	951.48	951.49	951.50	951.51
493.00	951.52	951.53	951.54	951.55	951.56

498.00	951.57	951.58	951.59	951.61	951.62
503.00	951.63	951.64	951.65	951.66	951.67
508.00	951.69	951.70	951.71	951.72	951.74
513.00	951.75	951.76	951.77	951.78	951.79
518.00	951.81	951.82	951.83	951.84	951.85
523.00	951.87	951.88	951.89	951.90	951.92
528.00	951.93	951.94	951.96	951.97	951.98
533.00	952.00	952.01	952.02	952.03	952.05
538.00	952.06	952.07	952.09	952.10	952.11
543.00	952.13	952.14	952.16	952.17	952.18
548.00	952.20	952.21	952.23	952.24	952.25
553.00	952.27	952.28	952.30	952.31	952.32
558.00	952.34	952.35	952.36	952.38	952.39
563.00	952.41	952.42	952.44	952.45	952.47
568.00	952.48	952.49	952.51	952.52	952.54
573.00	952.55	952.56	952.58	952.59	952.60
578.00	952.62	952.63	952.65	952.66	952.67
583.00	952.69	952.70	952.72	952.73	952.75
588.00	952.76	952.78	952.79	952.81	952.82
593.00	952.83	952.84	952.85	952.86	952.87
598.00	952.88	952.89	952.90	952.90	952.91
603.00	952.92	952.92	952.93	952.93	952.94
608.00	952.94	952.95	952.95	952.96	952.96
613.00	952.97	952.97	952.97	952.98	952.98
618.00	952.99	952.99	952.99	953.00	953.00
623.00	953.00	953.01	953.01	953.01	953.02
628.00	953.02	953.02	953.03	953.03	953.03
633.00	953.04	953.04	953.04	953.05	953.05
638.00	953.05	953.06	953.06	953.06	953.07
643.00	953.07	953.07	953.08	953.08	953.08
648.00	953.09	953.09	953.10	953.10	953.11
653.00	953.11	953.11	953.12	953.12	953.13
658.00	953.13	953.14	953.14	953.15	953.15
663.00	953.16	953.16	953.17	953.17	953.18
668.00	953.19	953.19	953.20	953.20	953.21
673.00	953.22	953.22	953.23	953.24	953.25

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time	Output Time increment = 1.00 min
min	Time on left represents time for first value in each row.
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678.00	953.25	953.26	953.27	953.28	953.29
683.00	953.30	953.30	953.31	953.32	953.33
688.00	953.34	953.35	953.37	953.38	953.39
693.00	953.40	953.42	953.43	953.45	953.48
698.00	953.50	953.53	953.57	953.61	953.66
703.00	953.72	953.78	953.85	953.93	954.03
708.00	954.12	954.24	954.36	954.49	954.64
713.00	954.81	954.99	955.18	955.39	955.61
718.00	955.84	956.07	956.29	956.50	956.71
723.00	956.90	957.08	957.24	957.38	957.50
728.00	957.60	957.68	957.73	957.77	957.78
733.00	957.79	957.77	957.75	957.72	957.68
738.00	957.64	957.58	957.53	957.47	957.40
743.00	957.33	957.26	957.18	957.09	957.00
748.00	956.91	956.82	956.72	956.62	956.53
753.00	956.43	956.34	956.25	956.16	956.07
758.00	955.99	955.91	955.83	955.75	955.67
763.00	955.59	955.52	955.44	955.37	955.30
768.00	955.23	955.16	955.09	955.03	954.96
773.00	954.90	954.84	954.78	954.73	954.67
778.00	954.62	954.57	954.52	954.47	954.42
783.00	954.38	954.33	954.29	954.25	954.21
788.00	954.17	954.14	954.10	954.07	954.04
793.00	954.01	953.98	953.95	953.92	953.89
798.00	953.87	953.84	953.82	953.80	953.78
803.00	953.76	953.74	953.72	953.70	953.68
808.00	953.66	953.65	953.63	953.61	953.60
813.00	953.59	953.57	953.56	953.55	953.53
818.00	953.52	953.51	953.50	953.49	953.48
823.00	953.47	953.46	953.45	953.44	953.43
828.00	953.43	953.42	953.41	953.40	953.40
833.00	953.39	953.38	953.37	953.37	953.36
838.00	953.36	953.35	953.34	953.34	953.33
843.00	953.33	953.32	953.32	953.31	953.31
848.00	953.30	953.30	953.29	953.29	953.28
853.00	953.28	953.28	953.27	953.27	953.26
858.00	953.26	953.26	953.25	953.25	953.25
863.00	953.24	953.24	953.24	953.23	953.23
868.00	953.23	953.23	953.22	953.22	953.22
873.00	953.22	953.21	953.21	953.21	953.21
878.00	953.21	953.20	953.20	953.20	953.20
883.00	953.20	953.19	953.19	953.19	953.19
888.00	953.19	953.18	953.18	953.18	953.18
893.00	953.18	953.18	953.18	953.17	953.17

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time-Elev
Name.... MAIN DET OUT Tag: 100 yr

Page 9.24
Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
898.00	953.17	953.17	953.17	953.17	953.16
903.00	953.16	953.16	953.16	953.16	953.16
908.00	953.16	953.15	953.15	953.15	953.15
913.00	953.15	953.15	953.15	953.15	953.14
918.00	953.14	953.14	953.14	953.14	953.14
923.00	953.14	953.13	953.13	953.13	953.13
928.00	953.13	953.13	953.13	953.13	953.12
933.00	953.12	953.12	953.12	953.12	953.12
938.00	953.12	953.11	953.11	953.11	953.11
943.00	953.11	953.11	953.11	953.11	953.10
948.00	953.10	953.10	953.10	953.10	953.10
953.00	953.10	953.10	953.09	953.09	953.09
958.00	953.09	953.09	953.09	953.09	953.08
963.00	953.08	953.08	953.08	953.08	953.08
968.00	953.08	953.08	953.07	953.07	953.07
973.00	953.07	953.07	953.07	953.07	953.07
978.00	953.07	953.06	953.06	953.06	953.06
983.00	953.06	953.06	953.06	953.06	953.06
988.00	953.06	953.05	953.05	953.05	953.05
993.00	953.05	953.05	953.05	953.05	953.05
998.00	953.05	953.05	953.05	953.05	953.05
1003.00	953.04	953.04	953.04	953.04	953.04
1008.00	953.04	953.04	953.04	953.04	953.04
1013.00	953.04	953.04	953.04	953.04	953.04
1018.00	953.04	953.04	953.04	953.03	953.03
1023.00	953.03	953.03	953.03	953.03	953.03
1028.00	953.03	953.03	953.03	953.03	953.03
1033.00	953.03	953.03	953.03	953.03	953.03
1038.00	953.03	953.03	953.03	953.02	953.02
1043.00	953.02	953.02	953.02	953.02	953.02
1048.00	953.02	953.02	953.02	953.02	953.02
1053.00	953.02	953.02	953.02	953.02	953.02
1058.00	953.02	953.02	953.02	953.02	953.02
1063.00	953.01	953.01	953.01	953.01	953.01
1068.00	953.01	953.01	953.01	953.01	953.01
1073.00	953.01	953.01	953.01	953.01	953.01
1078.00	953.01	953.01	953.01	953.01	953.01
1083.00	953.01	953.00	953.00	953.00	953.00
1088.00	953.00	953.00	953.00	953.00	953.00
1093.00	953.00	953.00	953.00	953.00	953.00
1098.00	953.00	953.00	953.00	953.00	953.00
1103.00	953.00	953.00	952.99	952.99	952.99

1108.00		952.99	952.99	952.99	952.99	952.99
1113.00		952.99	952.99	952.99	952.99	952.99

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1118.00	952.99	952.99	952.99	952.99	952.99
1123.00	952.99	952.99	952.99	952.98	952.98
1128.00	952.98	952.98	952.98	952.98	952.98
1133.00	952.98	952.98	952.98	952.98	952.98
1138.00	952.98	952.98	952.98	952.98	952.98
1143.00	952.98	952.98	952.98	952.98	952.97
1148.00	952.97	952.97	952.97	952.97	952.97
1153.00	952.97	952.97	952.97	952.97	952.97
1158.00	952.97	952.97	952.97	952.97	952.97
1163.00	952.97	952.97	952.97	952.97	952.97
1168.00	952.96	952.96	952.96	952.96	952.96
1173.00	952.96	952.96	952.96	952.96	952.96
1178.00	952.96	952.96	952.96	952.96	952.96
1183.00	952.96	952.96	952.96	952.96	952.96
1188.00	952.96	952.95	952.95	952.95	952.95
1193.00	952.95	952.95	952.95	952.95	952.95
1198.00	952.95	952.95	952.95	952.95	952.95
1203.00	952.95	952.95	952.95	952.95	952.95
1208.00	952.95	952.95	952.94	952.94	952.94
1213.00	952.94	952.94	952.94	952.94	952.94
1218.00	952.94	952.94	952.94	952.94	952.94
1223.00	952.94	952.94	952.94	952.94	952.94
1228.00	952.94	952.94	952.94	952.94	952.94
1233.00	952.94	952.94	952.94	952.94	952.94
1238.00	952.94	952.94	952.94	952.94	952.94
1243.00	952.94	952.94	952.94	952.94	952.94
1248.00	952.93	952.93	952.93	952.93	952.93
1253.00	952.93	952.93	952.93	952.93	952.93
1258.00	952.93	952.93	952.93	952.93	952.93
1263.00	952.93	952.93	952.93	952.93	952.93
1268.00	952.93	952.93	952.93	952.93	952.93
1273.00	952.93	952.93	952.93	952.93	952.93
1278.00	952.93	952.93	952.93	952.93	952.93
1283.00	952.93	952.93	952.93	952.93	952.93

1288.00	952.93	952.93	952.93	952.93	952.93
1293.00	952.93	952.93	952.93	952.93	952.93
1298.00	952.93	952.93	952.93	952.93	952.93
1303.00	952.93	952.93	952.93	952.93	952.93
1308.00	952.93	952.93	952.93	952.93	952.93
1313.00	952.93	952.93	952.93	952.93	952.93
1318.00	952.93	952.93	952.93	952.93	952.93
1323.00	952.93	952.93	952.93	952.93	952.93
1328.00	952.93	952.93	952.93	952.93	952.93
1333.00	952.93	952.93	952.93	952.93	952.93

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 9.26

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1338.00	952.93	952.93	952.93	952.93	952.93
1343.00	952.93	952.93	952.93	952.93	952.93
1348.00	952.92	952.92	952.92	952.92	952.92
1353.00	952.92	952.92	952.92	952.92	952.92
1358.00	952.92	952.92	952.92	952.92	952.92
1363.00	952.92	952.92	952.92	952.92	952.92
1368.00	952.92	952.92	952.92	952.92	952.92
1373.00	952.92	952.92	952.92	952.92	952.92
1378.00	952.92	952.92	952.92	952.92	952.92
1383.00	952.92	952.92	952.92	952.92	952.92
1388.00	952.92	952.92	952.92	952.92	952.92
1393.00	952.92	952.92	952.92	952.92	952.92
1398.00	952.92	952.92	952.92	952.92	952.92
1403.00	952.92	952.92	952.92	952.92	952.92
1408.00	952.92	952.92	952.92	952.92	952.92
1413.00	952.92	952.92	952.92	952.92	952.92
1418.00	952.92	952.92	952.92	952.92	952.92
1423.00	952.92	952.92	952.92	952.92	952.92
1428.00	952.92	952.92	952.92	952.92	952.92
1433.00	952.92	952.92	952.92	952.92	952.92
1438.00	952.92	952.92	952.92	952.92	952.92
1443.00	952.92	952.92	952.91	952.91	952.91
1448.00	952.91	952.91	952.91	952.90	952.90
1453.00	952.90	952.89	952.89	952.88	952.88
1458.00	952.88	952.87	952.87	952.87	952.86
1463.00	952.86	952.85	952.85	952.85	952.84

1468.00	952.84	952.84	952.84	952.83	952.83
1473.00	952.83	952.83	952.82	952.82	952.82
1478.00	952.82	952.81	952.81	952.81	952.81
1483.00	952.81	952.81	952.81	952.80	952.80
1488.00	952.80	952.80	952.80	952.80	952.80
1493.00	952.80	952.80	952.80	952.79	952.79
1498.00	952.79	952.79	952.79	952.79	952.79
1503.00	952.79	952.79	952.78	952.78	952.78
1508.00	952.78	952.78	952.78	952.78	952.78
1513.00	952.77	952.77	952.77	952.77	952.77
1518.00	952.77	952.77	952.77	952.76	952.76
1523.00	952.76	952.76	952.76	952.76	952.76
1528.00	952.76	952.76	952.75	952.75	952.75
1533.00	952.75	952.75	952.75	952.75	952.75
1538.00	952.74	952.74	952.74	952.74	952.74
1543.00	952.74	952.74	952.73	952.73	952.73
1548.00	952.73	952.73	952.73	952.73	952.73
1553.00	952.72	952.72	952.72	952.72	952.72

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1558.00	952.72	952.72	952.72	952.71	952.71
1563.00	952.71	952.71	952.71	952.71	952.71
1568.00	952.71	952.70	952.70	952.70	952.70
1573.00	952.70	952.70	952.70	952.70	952.69
1578.00	952.69	952.69	952.69	952.69	952.69
1583.00	952.69	952.69	952.68	952.68	952.68
1588.00	952.68	952.68	952.68	952.68	952.68
1593.00	952.67	952.67	952.67	952.67	952.67
1598.00	952.67	952.67	952.67	952.66	952.66
1603.00	952.66	952.66	952.66	952.66	952.66
1608.00	952.66	952.65	952.65	952.65	952.65
1613.00	952.65	952.65	952.65	952.65	952.64
1618.00	952.64	952.64	952.64	952.64	952.64
1623.00	952.64	952.64	952.63	952.63	952.63
1628.00	952.63	952.63	952.63	952.63	952.63
1633.00	952.62	952.62	952.62	952.62	952.62
1638.00	952.62	952.62	952.62	952.61	952.61
1643.00	952.61	952.61	952.61	952.61	952.61

1648.00	952.61	952.60	952.60	952.60	952.60
1653.00	952.60	952.60	952.60	952.60	952.60
1658.00	952.59	952.59	952.59	952.59	952.59
1663.00	952.59	952.59	952.59	952.58	952.58
1668.00	952.58	952.58	952.58	952.58	952.58
1673.00	952.58	952.57	952.57	952.57	952.57
1678.00	952.57	952.57	952.57	952.57	952.56
1683.00	952.56	952.56	952.56	952.56	952.56
1688.00	952.56	952.56	952.56	952.55	952.55
1693.00	952.55	952.55	952.55	952.55	952.55
1698.00	952.55	952.54	952.54	952.54	952.54
1703.00	952.54	952.54	952.54	952.54	952.53
1708.00	952.53	952.53	952.53	952.53	952.53
1713.00	952.53	952.53	952.53	952.52	952.52
1718.00	952.52	952.52	952.52	952.52	952.52
1723.00	952.52	952.51	952.51	952.51	952.51
1728.00	952.51	952.51	952.51	952.51	952.50
1733.00	952.50	952.50	952.50	952.50	952.50
1738.00	952.50	952.50	952.49	952.49	952.49
1743.00	952.49	952.49	952.49	952.49	952.49
1748.00	952.48	952.48	952.48	952.48	952.48
1753.00	952.48	952.48	952.48	952.47	952.47
1758.00	952.47	952.47	952.47	952.47	952.47
1763.00	952.47	952.46	952.46	952.46	952.46
1768.00	952.46	952.46	952.46	952.46	952.45
1773.00	952.45	952.45	952.45	952.45	952.45

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1778.00	952.45	952.44	952.44	952.44	952.44
1783.00	952.44	952.44	952.44	952.44	952.43
1788.00	952.43	952.43	952.43	952.43	952.43
1793.00	952.43	952.43	952.42	952.42	952.42
1798.00	952.42	952.42	952.42	952.42	952.42
1803.00	952.41	952.41	952.41	952.41	952.41
1808.00	952.41	952.41	952.41	952.40	952.40
1813.00	952.40	952.40	952.40	952.40	952.40
1818.00	952.40	952.39	952.39	952.39	952.39
1823.00	952.39	952.39	952.39	952.39	952.38

1828.00	952.38	952.38	952.38	952.38	952.38
1833.00	952.38	952.38	952.38	952.37	952.37
1838.00	952.37	952.37	952.37	952.37	952.37
1843.00	952.37	952.36	952.36	952.36	952.36
1848.00	952.36	952.36	952.36	952.36	952.35
1853.00	952.35	952.35	952.35	952.35	952.35
1858.00	952.35	952.35	952.34	952.34	952.34
1863.00	952.34	952.34	952.34	952.34	952.34
1868.00	952.33	952.33	952.33	952.33	952.33
1873.00	952.33	952.33	952.33	952.33	952.32
1878.00	952.32	952.32	952.32	952.32	952.32
1883.00	952.32	952.32	952.31	952.31	952.31
1888.00	952.31	952.31	952.31	952.31	952.31
1893.00	952.30	952.30	952.30	952.30	952.30
1898.00	952.30	952.30	952.30	952.30	952.29
1903.00	952.29	952.29	952.29	952.29	952.29
1908.00	952.29	952.29	952.28	952.28	952.28
1913.00	952.28	952.28	952.28	952.28	952.28
1918.00	952.28	952.27	952.27	952.27	952.27
1923.00	952.27	952.27	952.27	952.27	952.26
1928.00	952.26	952.26	952.26	952.26	952.26
1933.00	952.26	952.26	952.26	952.25	952.25
1938.00	952.25	952.25	952.25	952.25	952.25
1943.00	952.25	952.24	952.24	952.24	952.24
1948.00	952.24	952.24	952.24	952.24	952.23
1953.00	952.23	952.23	952.23	952.23	952.23
1958.00	952.23	952.23	952.22	952.22	952.22
1963.00	952.22	952.22	952.22	952.22	952.22
1968.00	952.21	952.21	952.21	952.21	952.21
1973.00	952.21	952.21	952.21	952.20	952.20
1978.00	952.20	952.20	952.20	952.20	952.20
1983.00	952.20	952.19	952.19	952.19	952.19
1988.00	952.19	952.19	952.19	952.19	952.18
1993.00	952.18	952.18	952.18	952.18	952.18

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

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Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1998.00	952.18	952.18	952.17	952.17	952.17
2003.00	952.17	952.17	952.17	952.17	952.17

2008.00	952.17	952.16	952.16	952.16	952.16
2013.00	952.16	952.16	952.16	952.16	952.15
2018.00	952.15	952.15	952.15	952.15	952.15
2023.00	952.15	952.15	952.14	952.14	952.14
2028.00	952.14	952.14	952.14	952.14	952.14
2033.00	952.14	952.13	952.13	952.13	952.13
2038.00	952.13	952.13	952.13	952.13	952.12
2043.00	952.12	952.12	952.12	952.12	952.12
2048.00	952.12	952.12	952.12	952.11	952.11
2053.00	952.11	952.11	952.11	952.11	952.11
2058.00	952.11	952.11	952.10	952.10	952.10
2063.00	952.10	952.10	952.10	952.10	952.10
2068.00	952.09	952.09	952.09	952.09	952.09
2073.00	952.09	952.09	952.09	952.09	952.08
2078.00	952.08	952.08	952.08	952.08	952.08
2083.00	952.08	952.08	952.08	952.07	952.07
2088.00	952.07	952.07	952.07	952.07	952.07
2093.00	952.07	952.07	952.06	952.06	952.06
2098.00	952.06	952.06	952.06	952.06	952.06
2103.00	952.06	952.05	952.05	952.05	952.05
2108.00	952.05	952.05	952.05	952.05	952.05
2113.00	952.04	952.04	952.04	952.04	952.04
2118.00	952.04	952.04	952.04	952.04	952.03
2123.00	952.03	952.03	952.03	952.03	952.03
2128.00	952.03	952.03	952.03	952.03	952.02
2133.00	952.02	952.02	952.02	952.02	952.02
2138.00	952.02	952.02	952.02	952.01	952.01
2143.00	952.01	952.01	952.01	952.01	952.01
2148.00	952.01	952.01	952.00	952.00	952.00
2153.00	952.00	952.00	952.00	952.00	952.00
2158.00	952.00	951.99	951.99	951.99	951.99
2163.00	951.99	951.99	951.99	951.99	951.99
2168.00	951.98	951.98	951.98	951.98	951.98
2173.00	951.98	951.98	951.98	951.97	951.97
2178.00	951.97	951.97	951.97	951.97	951.97
2183.00	951.97	951.97	951.96	951.96	951.96
2188.00	951.96	951.96	951.96	951.96	951.96
2193.00	951.96	951.95	951.95	951.95	951.95
2198.00	951.95	951.95	951.95	951.95	951.94
2203.00	951.94	951.94	951.94	951.94	951.94
2208.00	951.94	951.94	951.94	951.93	951.93
2213.00	951.93	951.93	951.93	951.93	951.93

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Time-Elev

Page 9.30

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. ELEVATION (ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2218.00	951.93	951.92	951.92	951.92	951.92
2223.00	951.92	951.92	951.92	951.92	951.92
2228.00	951.91	951.91	951.91	951.91	951.91
2233.00	951.91	951.91	951.91	951.91	951.90
2238.00	951.90	951.90	951.90	951.90	951.90
2243.00	951.90				

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.01

Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
535.00	.000	.000	.000	.000	.000
540.00	.000	.000	.000	.000	.000
545.00	.000	.000	.000	.000	.000
550.00	.000	.000	.000	.000	.000
555.00	.000	.000	.000	.000	.000
560.00	.000	.000	.000	.000	.000
565.00	.000	.000	.000	.000	.000
570.00	.000	.001	.001	.001	.001
575.00	.001	.001	.001	.001	.001
580.00	.001	.001	.001	.001	.001
585.00	.001	.001	.001	.001	.002
590.00	.002	.002	.002	.002	.002
595.00	.002	.003	.003	.003	.003
600.00	.003	.003	.003	.003	.003
605.00	.004	.004	.004	.004	.004
610.00	.004	.005	.005	.005	.005
615.00	.006	.006	.006	.007	.007
620.00	.007	.008	.008	.008	.009
625.00	.009	.009	.009	.010	.010
630.00	.010	.011	.011	.011	.012
635.00	.012	.013	.013	.014	.014
640.00	.015	.015	.016	.016	.017
645.00	.018	.018	.019	.019	.020
650.00	.021	.021	.022	.022	.023

655.00	.024	.024	.025	.026	.027
660.00	.028	.028	.029	.030	.031
665.00	.033	.034	.035	.036	.037
670.00	.038	.039	.040	.041	.042
675.00	.043	.045	.046	.048	.049
680.00	.051	.053	.055	.057	.059
685.00	.061	.063	.065	.067	.069
690.00	.072	.074	.077	.079	.083
695.00	.086	.090	.095	.099	.103
700.00	.109	.115	.123	.132	.142
705.00	.153	.165	.180	.197	.216
710.00	.237	.262	.289	.321	.358
715.00	.398	.446	.496	.552	.611
720.00	.676	.742	.812	.878	.942
725.00	.998	1.050	1.095	1.134	1.168
730.00	1.197	1.220	1.239	1.254	1.264
735.00	1.272	1.278	1.281	1.282	1.281
740.00	1.279	1.276	1.271	1.265	1.259
745.00	1.252	1.244	1.235	1.226	1.216

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.02

Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
750.00	1.206	1.196	1.186	1.176	1.166
755.00	1.156	1.146	1.136	1.127	1.117
760.00	1.108	1.099	1.091	1.082	1.074
765.00	1.066	1.058	1.050	1.043	1.036
770.00	1.029	1.023	1.017	1.011	1.005
775.00	.999	.994	.989	.985	.980
780.00	.976	.971	.967	.964	.960
785.00	.956	.953	.950	.947	.944
790.00	.941	.938	.936	.933	.931
795.00	.928	.926	.924	.922	.920
800.00	.918	.916	.914	.912	.911
805.00	.909	.907	.906	.905	.903
810.00	.902	.901	.899	.898	.897
815.00	.896	.895	.894	.893	.892
820.00	.891	.890	.889	.888	.887
825.00	.886	.886	.885	.884	.883
830.00	.883	.882	.881	.880	.880

835.00	.879	.879	.878	.877	.877
840.00	.876	.875	.875	.874	.874
845.00	.873	.873	.872	.872	.871
850.00	.871	.870	.870	.869	.869
855.00	.868	.868	.867	.867	.867
860.00	.866	.866	.866	.865	.865
865.00	.865	.864	.864	.864	.863
870.00	.863	.863	.862	.862	.862
875.00	.862	.861	.861	.861	.861
880.00	.861	.860	.860	.860	.860
885.00	.859	.859	.859	.859	.859
890.00	.858	.858	.858	.858	.858
895.00	.858	.857	.857	.857	.857
900.00	.857	.856	.856	.856	.856
905.00	.856	.856	.855	.855	.855
910.00	.855	.855	.855	.854	.854
915.00	.854	.854	.854	.854	.854
920.00	.853	.853	.853	.853	.853
925.00	.853	.852	.852	.852	.852
930.00	.852	.852	.851	.851	.851
935.00	.851	.851	.851	.850	.850
940.00	.850	.850	.850	.850	.849
945.00	.849	.849	.849	.849	.849
950.00	.848	.848	.848	.848	.848
955.00	.848	.847	.847	.847	.847
960.00	.847	.847	.847	.846	.846
965.00	.846	.846	.846	.846	.845

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.03

Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
970.00	.845	.845	.845	.845	.845
975.00	.844	.844	.844	.844	.844
980.00	.844	.844	.844	.843	.843
985.00	.843	.843	.843	.843	.843
990.00	.843	.843	.842	.842	.842
995.00	.842	.842	.842	.842	.842
1000.00	.842	.842	.842	.842	.842
1005.00	.841	.841	.841	.841	.841
1010.00	.841	.841	.841	.841	.841

1015.00	.841	.841	.841	.841	.841
1020.00	.840	.840	.840	.840	.840
1025.00	.840	.840	.840	.840	.840
1030.00	.840	.840	.840	.840	.840
1035.00	.840	.839	.839	.839	.839
1040.00	.839	.839	.839	.839	.839
1045.00	.839	.839	.839	.839	.839
1050.00	.839	.839	.839	.838	.838
1055.00	.838	.838	.838	.838	.838
1060.00	.838	.838	.838	.838	.838
1065.00	.838	.838	.838	.838	.838
1070.00	.837	.837	.837	.837	.837
1075.00	.837	.837	.837	.837	.837
1080.00	.837	.837	.837	.837	.837
1085.00	.837	.837	.837	.836	.836
1090.00	.836	.836	.836	.836	.836
1095.00	.836	.836	.836	.836	.836
1100.00	.836	.836	.836	.836	.836
1105.00	.835	.835	.835	.835	.835
1110.00	.835	.835	.835	.835	.835
1115.00	.835	.835	.835	.835	.835
1120.00	.835	.834	.834	.834	.834
1125.00	.834	.834	.834	.834	.834
1130.00	.834	.834	.834	.834	.834
1135.00	.834	.834	.834	.833	.833
1140.00	.833	.833	.833	.833	.833
1145.00	.833	.833	.833	.833	.833
1150.00	.833	.833	.833	.833	.832
1155.00	.832	.832	.832	.832	.832
1160.00	.832	.832	.832	.832	.832
1165.00	.832	.832	.832	.832	.832
1170.00	.832	.831	.831	.831	.831
1175.00	.831	.831	.831	.831	.831
1180.00	.831	.831	.831	.831	.831
1185.00	.831	.831	.830	.830	.830

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.04

Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1190.00	.830	.830	.830	.830	.830

1195.00	.830	.830	.830	.830	.830
1200.00	.830	.830	.830	.829	.829
1205.00	.829	.829	.829	.829	.829
1210.00	.829	.829	.829	.829	.829
1215.00	.829	.829	.829	.829	.829
1220.00	.829	.828	.828	.828	.828
1225.00	.828	.828	.828	.828	.828
1230.00	.828	.828	.828	.828	.828
1235.00	.828	.828	.828	.828	.828
1240.00	.828	.828	.828	.828	.828
1245.00	.828	.828	.828	.828	.828
1250.00	.828	.828	.828	.828	.828
1255.00	.828	.828	.828	.828	.828
1260.00	.828	.828	.828	.828	.828
1265.00	.828	.828	.828	.827	.827
1270.00	.827	.827	.827	.827	.827
1275.00	.827	.827	.827	.827	.827
1280.00	.827	.827	.827	.827	.827
1285.00	.827	.827	.827	.827	.827
1290.00	.827	.827	.827	.827	.827
1295.00	.827	.827	.827	.827	.827
1300.00	.827	.827	.827	.827	.827
1305.00	.827	.827	.827	.827	.827
1310.00	.827	.827	.827	.827	.827
1315.00	.827	.827	.827	.827	.827
1320.00	.827	.827	.827	.827	.827
1325.00	.827	.827	.827	.827	.827
1330.00	.827	.827	.827	.827	.827
1335.00	.827	.827	.827	.827	.827
1340.00	.827	.827	.827	.827	.827
1345.00	.827	.827	.827	.827	.827
1350.00	.827	.827	.827	.827	.826
1355.00	.826	.826	.826	.826	.826
1360.00	.826	.826	.826	.826	.826
1365.00	.826	.826	.826	.826	.826
1370.00	.826	.826	.826	.826	.826
1375.00	.826	.826	.826	.826	.826
1380.00	.826	.826	.826	.826	.826
1385.00	.826	.826	.826	.826	.826
1390.00	.826	.826	.826	.826	.826
1395.00	.826	.826	.826	.826	.826
1400.00	.826	.826	.826	.826	.826
1405.00	.826	.826	.826	.826	.826

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.05

Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1410.00	.826	.826	.826	.826	.826
1415.00	.826	.826	.826	.826	.826
1420.00	.826	.826	.826	.826	.826
1425.00	.826	.826	.826	.826	.826
1430.00	.826	.826	.826	.826	.826
1435.00	.826	.826	.826	.826	.826
1440.00	.826	.826	.825	.825	.825
1445.00	.825	.825	.825	.825	.824
1450.00	.824	.824	.823	.823	.822
1455.00	.822	.821	.820	.820	.819
1460.00	.819	.818	.818	.817	.817
1465.00	.816	.816	.816	.815	.815
1470.00	.814	.814	.813	.813	.812
1475.00	.812	.811	.811	.810	.809
1480.00	.809	.808	.808	.807	.806
1485.00	.806	.805	.805	.804	.803
1490.00	.803	.802	.802	.801	.800
1495.00	.800	.799	.798	.798	.797
1500.00	.797	.796	.795	.795	.794
1505.00	.793	.793	.792	.791	.791
1510.00	.790	.790	.789	.788	.788
1515.00	.787	.786	.786	.785	.784
1520.00	.784	.783	.782	.782	.781
1525.00	.780	.780	.779	.778	.778
1530.00	.777	.776	.776	.775	.774
1535.00	.774	.773	.772	.772	.771
1540.00	.770	.770	.769	.768	.768
1545.00	.767	.766	.766	.765	.764
1550.00	.764	.763	.763	.762	.761
1555.00	.761	.760	.759	.759	.758
1560.00	.757	.757	.756	.755	.755
1565.00	.754	.753	.753	.752	.752
1570.00	.751	.750	.750	.749	.748
1575.00	.748	.747	.746	.746	.745
1580.00	.744	.744	.743	.743	.742
1585.00	.741	.741	.740	.739	.739
1590.00	.738	.738	.737	.736	.736
1595.00	.735	.734	.734	.733	.732
1600.00	.732	.731	.731	.730	.729
1605.00	.729	.728	.728	.727	.726
1610.00	.726	.725	.724	.724	.723
1615.00	.723	.722	.721	.721	.720
1620.00	.719	.719	.718	.718	.717

1625.00 | .716 .716 .715 .715 .714

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.06

Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1630.00	.713	.713	.712	.712	.711
1635.00	.710	.710	.709	.708	.708
1640.00	.707	.707	.706	.705	.705
1645.00	.704	.704	.703	.702	.702
1650.00	.701	.701	.700	.699	.699
1655.00	.698	.698	.697	.696	.696
1660.00	.695	.695	.694	.693	.693
1665.00	.692	.692	.691	.691	.690
1670.00	.689	.689	.688	.688	.687
1675.00	.686	.686	.685	.685	.684
1680.00	.683	.683	.682	.682	.681
1685.00	.681	.680	.679	.679	.678
1690.00	.678	.677	.677	.676	.675
1695.00	.675	.674	.674	.673	.672
1700.00	.672	.671	.671	.670	.670
1705.00	.669	.668	.668	.667	.667
1710.00	.666	.666	.665	.664	.664
1715.00	.663	.663	.662	.661	.661
1720.00	.660	.660	.659	.658	.658
1725.00	.657	.657	.656	.655	.655
1730.00	.654	.653	.653	.652	.652
1735.00	.651	.650	.650	.649	.649
1740.00	.648	.647	.647	.646	.646
1745.00	.645	.644	.644	.643	.643
1750.00	.642	.641	.641	.640	.640
1755.00	.639	.638	.638	.637	.637
1760.00	.636	.635	.635	.634	.634
1765.00	.633	.632	.632	.631	.631
1770.00	.630	.629	.629	.628	.628
1775.00	.627	.626	.626	.625	.625
1780.00	.624	.624	.623	.622	.622
1785.00	.621	.621	.620	.620	.619
1790.00	.618	.618	.617	.617	.616
1795.00	.615	.615	.614	.614	.613
1800.00	.613	.612	.611	.611	.610

1805.00	.610	.609	.609	.608	.607
1810.00	.607	.606	.606	.605	.605
1815.00	.604	.604	.603	.602	.602
1820.00	.601	.601	.600	.600	.599
1825.00	.598	.598	.597	.597	.596
1830.00	.596	.595	.595	.594	.593
1835.00	.593	.592	.592	.591	.591
1840.00	.590	.590	.589	.589	.588
1845.00	.587	.587	.586	.586	.585

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume Page 10.07
Name.... MAIN DET OUT Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1850.00	.585	.584	.584	.583	.583
1855.00	.582	.581	.581	.580	.580
1860.00	.579	.579	.578	.578	.577
1865.00	.577	.576	.576	.575	.574
1870.00	.574	.573	.573	.572	.572
1875.00	.571	.571	.570	.570	.569
1880.00	.569	.568	.568	.567	.567
1885.00	.566	.565	.565	.564	.564
1890.00	.563	.563	.562	.562	.561
1895.00	.561	.560	.560	.559	.559
1900.00	.558	.558	.557	.557	.556
1905.00	.556	.555	.555	.554	.554
1910.00	.553	.552	.552	.551	.551
1915.00	.550	.550	.549	.549	.548
1920.00	.548	.547	.547	.546	.546
1925.00	.545	.545	.544	.543	.543
1930.00	.542	.542	.541	.541	.540
1935.00	.540	.539	.538	.538	.537
1940.00	.537	.536	.536	.535	.535
1945.00	.534	.534	.533	.533	.532
1950.00	.531	.531	.530	.530	.529
1955.00	.529	.528	.528	.527	.527
1960.00	.526	.526	.525	.525	.524
1965.00	.523	.523	.522	.522	.521
1970.00	.521	.520	.520	.519	.519
1975.00	.518	.518	.517	.517	.516
1980.00	.516	.515	.515	.514	.514

1985.00	.513	.513	.512	.512	.511
1990.00	.511	.510	.510	.509	.509
1995.00	.508	.508	.507	.507	.506
2000.00	.506	.505	.505	.504	.504
2005.00	.503	.503	.502	.502	.501
2010.00	.501	.500	.500	.499	.499
2015.00	.498	.498	.497	.497	.496
2020.00	.496	.495	.495	.494	.494
2025.00	.493	.493	.492	.492	.491
2030.00	.491	.490	.490	.489	.489
2035.00	.488	.488	.488	.487	.487
2040.00	.486	.486	.485	.485	.484
2045.00	.484	.483	.483	.482	.482
2050.00	.481	.481	.480	.480	.480
2055.00	.479	.479	.478	.478	.477
2060.00	.477	.476	.476	.475	.475
2065.00	.474	.474	.474	.473	.473

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.08

Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2070.00	.472	.472	.471	.471	.470
2075.00	.470	.469	.469	.469	.468
2080.00	.468	.467	.467	.466	.466
2085.00	.465	.465	.465	.464	.464
2090.00	.463	.463	.462	.462	.461
2095.00	.461	.461	.460	.460	.459
2100.00	.459	.458	.458	.458	.457
2105.00	.457	.456	.456	.455	.455
2110.00	.455	.454	.454	.453	.453
2115.00	.452	.452	.452	.451	.451
2120.00	.450	.450	.449	.449	.449
2125.00	.448	.448	.447	.447	.446
2130.00	.446	.446	.445	.445	.444
2135.00	.444	.443	.443	.443	.442
2140.00	.442	.441	.441	.440	.440
2145.00	.439	.439	.438	.438	.437
2150.00	.437	.436	.436	.436	.435
2155.00	.435	.434	.434	.433	.433
2160.00	.432	.432	.431	.431	.431

2165.00	.430	.430	.429	.429	.428
2170.00	.428	.427	.427	.426	.426
2175.00	.426	.425	.425	.424	.424
2180.00	.423	.423	.422	.422	.422
2185.00	.421	.421	.420	.420	.419
2190.00	.419	.418	.418	.418	.417
2195.00	.417	.416	.416	.415	.415
2200.00	.414	.414	.414	.413	.413
2205.00	.412	.412	.411	.411	.411
2210.00	.410	.410	.409	.409	.408
2215.00	.408	.407	.407	.407	.406
2220.00	.406	.405	.405	.404	.404
2225.00	.404	.403	.403	.402	.402
2230.00	.401	.401	.401	.400	.400
2235.00	.399	.399	.398	.398	.398
2240.00	.397	.397	.396	.396	.395
2245.00	.395	.395	.394	.394	.393
2250.00	.393	.393	.392	.392	.391
2255.00	.391	.390	.390	.390	.389
2260.00	.389	.388	.388	.388	.387
2265.00	.387	.386	.386	.385	.385
2270.00	.385	.384	.384	.383	.383
2275.00	.383	.382	.382	.381	.381
2280.00	.380	.380	.380	.379	.379
2285.00	.378	.378	.378	.377	.377

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume Page 10.09
Name.... MAIN DET OUT Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2290.00	.376	.376	.376	.375	.375
2295.00	.374	.374	.374	.373	.373
2300.00	.372	.372	.372	.371	.371
2305.00	.370	.370	.370	.369	.369
2310.00	.368	.368	.368	.367	.367
2315.00	.366	.366	.366	.365	.365
2320.00	.364	.364	.364	.363	.363
2325.00	.362	.362	.362	.361	.361
2330.00	.361	.360	.360	.359	.359
2335.00	.359	.358	.358	.357	.357
2340.00	.357	.356	.356	.355	.355

2345.00	.355	.354	.354	.354	.353
2350.00	.353	.352	.352	.352	.351
2355.00	.351	.350	.350	.349	.349
2360.00	.349	.348	.348	.347	.347
2365.00	.346	.346	.345	.345	.345
2370.00	.344	.344	.343	.343	.342
2375.01	.342	.342	.341	.341	.340
2380.00	.340	.339	.339	.339	.338
2385.00	.338	.337	.337	.336	.336
2390.01	.336	.335	.335	.334	.334
2395.00	.334	.333	.333	.332	.332
2400.00	.331	.331	.331	.330	.330
2405.01	.329	.329	.329	.328	.328
2410.00	.327	.327	.326	.326	.326
2415.01	.325	.325	.324	.324	.324
2420.01	.323	.323	.322	.322	.322
2425.00	.321	.321	.320	.320	.320
2430.01	.319	.319	.318	.318	.318
2435.01	.317	.317	.316	.316	.315
2440.00	.315	.315	.314	.314	.313
2445.01	.313	.313	.312	.312	.312
2450.01	.311	.311	.310	.310	.310
2455.01	.309	.309	.308	.308	.308
2460.01	.307	.307	.306	.306	.306
2465.01	.305	.305	.304	.304	.304
2470.01	.303	.303	.303	.302	.302
2475.01	.301	.301	.301	.300	.300
2480.01	.299	.299	.299	.298	.298
2485.01	.298	.297	.297	.296	.296
2490.01	.296	.295	.295	.294	.294
2495.01	.294	.293	.293	.293	.292
2500.01	.292	.291	.291	.291	.290
2505.01	.290	.290	.289	.289	.288

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.10

Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2510.01	.288	.288	.287	.287	.287
2515.01	.286	.286	.286	.285	.285
2520.01	.284	.284	.284	.283	.283

2525.01		.283	.282	.282	.282	.281
2530.01		.281	.280	.280	.280	.279
2535.01		.279				

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.11

Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
357.00	.000	.000	.000	.000	.000
362.00	.000	.000	.000	.000	.000
367.00	.000	.000	.000	.000	.000
372.00	.000	.000	.000	.000	.000
377.00	.000	.000	.000	.000	.000
382.00	.000	.000	.000	.000	.000
387.00	.000	.000	.000	.001	.001
392.00	.001	.001	.001	.001	.001
397.00	.001	.001	.001	.001	.001
402.00	.001	.001	.001	.001	.001
407.00	.002	.002	.002	.002	.002
412.00	.002	.002	.003	.003	.003
417.00	.003	.003	.003	.003	.003
422.00	.003	.003	.004	.004	.004
427.00	.004	.004	.004	.004	.005
432.00	.005	.005	.005	.005	.006
437.00	.006	.006	.006	.007	.007
442.00	.007	.007	.008	.008	.008
447.00	.009	.009	.009	.009	.009
452.00	.010	.010	.010	.010	.010
457.00	.011	.011	.011	.012	.012
462.00	.012	.012	.013	.013	.013
467.00	.014	.014	.015	.015	.015
472.00	.016	.016	.017	.017	.018
477.00	.018	.018	.019	.019	.019
482.00	.020	.020	.020	.021	.021
487.00	.022	.022	.022	.023	.023
492.00	.024	.024	.024	.025	.025
497.00	.026	.026	.027	.027	.028
502.00	.028	.029	.030	.030	.031
507.00	.032	.032	.033	.034	.035
512.00	.035	.036	.036	.037	.038
517.00	.038	.039	.040	.040	.041

522.00	.042	.043	.043	.044	.045
527.00	.046	.047	.048	.049	.050
532.00	.051	.052	.053	.054	.055
537.00	.057	.058	.059	.061	.062
542.00	.063	.064	.065	.066	.067
547.00	.069	.070	.071	.073	.074
552.00	.075	.077	.078	.080	.081
557.00	.083	.085	.086	.088	.090
562.00	.091	.093	.095	.097	.098
567.00	.100	.102	.103	.105	.106

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
572.00	.108	.110	.111	.113	.115
577.00	.117	.119	.121	.123	.125
582.00	.127	.129	.131	.134	.136
587.00	.138	.141	.143	.145	.147
592.00	.150	.152	.154	.156	.159
597.00	.161	.164	.166	.169	.171
602.00	.174	.177	.179	.182	.185
607.00	.188	.191	.195	.198	.201
612.00	.204	.207	.210	.213	.216
617.00	.220	.223	.226	.230	.233
622.00	.237	.241	.245	.249	.253
627.00	.257	.261	.265	.270	.274
632.00	.278	.282	.286	.291	.295
637.00	.300	.304	.309	.314	.319
642.00	.324	.329	.335	.340	.346
647.00	.352	.357	.363	.368	.374
652.00	.380	.386	.392	.399	.405
657.00	.412	.419	.426	.433	.441
662.00	.448	.455	.462	.470	.477
667.00	.485	.493	.501	.510	.518
672.00	.527	.537	.546	.555	.565
677.00	.574	.584	.594	.605	.615
682.00	.627	.638	.650	.662	.674
687.00	.686	.699	.711	.725	.738
692.00	.753	.768	.784	.801	.818
697.00	.836	.853	.872	.892	.912

702.00	.935	.958	.984	1.012	1.043
707.00	1.078	1.114	1.155	1.201	1.251
712.00	1.306	1.369	1.439	1.516	1.601
717.00	1.692	1.789	1.890	1.992	2.096
722.00	2.197	2.296	2.388	2.474	2.549
727.00	2.615	2.670	2.715	2.748	2.771
732.00	2.786	2.792	2.791	2.784	2.771
737.00	2.754	2.732	2.707	2.678	2.646
742.00	2.612	2.575	2.537	2.498	2.456
747.00	2.414	2.371	2.328	2.285	2.241
752.00	2.197	2.155	2.112	2.070	2.029
757.00	1.988	1.949	1.910	1.872	1.835
762.00	1.799	1.765	1.731	1.698	1.667
767.00	1.636	1.607	1.579	1.553	1.526
772.00	1.501	1.477	1.454	1.432	1.412
777.00	1.392	1.372	1.354	1.336	1.319
782.00	1.303	1.288	1.273	1.259	1.246
787.00	1.234	1.222	1.210	1.198	1.188

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.13

Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
792.00	1.178	1.168	1.159	1.150	1.142
797.00	1.134	1.126	1.119	1.112	1.106
802.00	1.100	1.094	1.088	1.083	1.077
807.00	1.073	1.067	1.063	1.058	1.054
812.00	1.050	1.045	1.042	1.038	1.034
817.00	1.031	1.028	1.024	1.021	1.019
822.00	1.016	1.013	1.010	1.008	1.005
827.00	1.003	1.001	.998	.996	.994
832.00	.992	.990	.988	.986	.985
837.00	.983	.981	.979	.978	.976
842.00	.974	.973	.971	.970	.968
847.00	.967	.965	.964	.963	.961
852.00	.960	.959	.957	.956	.955
857.00	.954	.953	.952	.951	.950
862.00	.949	.948	.947	.946	.945
867.00	.944	.943	.943	.942	.941
872.00	.940	.940	.939	.938	.938
877.00	.937	.936	.936	.935	.935

882.00	.934	.933	.933	.932	.932
887.00	.931	.931	.930	.930	.929
892.00	.929	.928	.928	.927	.927
897.00	.926	.926	.925	.925	.925
902.00	.924	.924	.923	.923	.922
907.00	.922	.921	.921	.920	.920
912.00	.920	.919	.919	.918	.918
917.00	.917	.917	.917	.916	.916
922.00	.915	.915	.915	.914	.914
927.00	.913	.913	.912	.912	.912
932.00	.911	.911	.910	.910	.910
937.00	.909	.909	.908	.908	.908
942.00	.907	.907	.906	.906	.906
947.00	.905	.905	.904	.904	.903
952.00	.903	.903	.902	.902	.901
957.00	.901	.901	.900	.900	.899
962.00	.899	.899	.898	.898	.897
967.00	.897	.897	.896	.896	.895
972.00	.895	.895	.894	.894	.894
977.00	.893	.893	.893	.892	.892
982.00	.892	.891	.891	.891	.891
987.00	.890	.890	.890	.890	.889
992.00	.889	.889	.889	.888	.888
997.00	.888	.888	.888	.887	.887
1002.00	.887	.887	.887	.886	.886
1007.00	.886	.886	.886	.886	.885

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.14

Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1012.00	.885	.885	.885	.885	.885
1017.00	.884	.884	.884	.884	.884
1022.00	.884	.883	.883	.883	.883
1027.00	.883	.883	.883	.882	.882
1032.00	.882	.882	.882	.882	.882
1037.00	.881	.881	.881	.881	.881
1042.00	.881	.881	.880	.880	.880
1047.00	.880	.880	.880	.879	.879
1052.00	.879	.879	.879	.879	.879
1057.00	.878	.878	.878	.878	.878

1062.00	.878	.878	.877	.877	.877
1067.00	.877	.877	.877	.877	.876
1072.00	.876	.876	.876	.876	.876
1077.00	.876	.875	.875	.875	.875
1082.00	.875	.875	.875	.874	.874
1087.00	.874	.874	.874	.874	.874
1092.00	.873	.873	.873	.873	.873
1097.00	.873	.873	.872	.872	.872
1102.00	.872	.872	.872	.872	.871
1107.00	.871	.871	.871	.871	.871
1112.00	.871	.870	.870	.870	.870
1117.00	.870	.870	.870	.869	.869
1122.00	.869	.869	.869	.869	.869
1127.00	.868	.868	.868	.868	.868
1132.00	.868	.868	.867	.867	.867
1137.00	.867	.867	.867	.867	.866
1142.00	.866	.866	.866	.866	.866
1147.00	.865	.865	.865	.865	.865
1152.00	.865	.865	.864	.864	.864
1157.00	.864	.864	.864	.864	.863
1162.00	.863	.863	.863	.863	.863
1167.00	.863	.862	.862	.862	.862
1172.00	.862	.862	.862	.861	.861
1177.00	.861	.861	.861	.861	.861
1182.00	.860	.860	.860	.860	.860
1187.00	.860	.860	.859	.859	.859
1192.00	.859	.859	.859	.859	.858
1197.00	.858	.858	.858	.858	.858
1202.00	.857	.857	.857	.857	.857
1207.00	.857	.857	.856	.856	.856
1212.00	.856	.856	.856	.856	.856
1217.00	.855	.855	.855	.855	.855
1222.00	.855	.855	.855	.855	.855
1227.00	.854	.854	.854	.854	.854

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.15

Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1232.00	.854	.854	.854	.854	.854
1237.00	.854	.854	.854	.854	.854

1242.00	.854	.853	.853	.853	.853
1247.00	.853	.853	.853	.853	.853
1252.00	.853	.853	.853	.853	.853
1257.00	.853	.853	.853	.853	.853
1262.00	.853	.853	.853	.853	.853
1267.00	.853	.853	.853	.852	.852
1272.00	.852	.852	.852	.852	.852
1277.00	.852	.852	.852	.852	.852
1282.00	.852	.852	.852	.852	.852
1287.00	.852	.852	.852	.852	.852
1292.00	.852	.852	.852	.852	.852
1297.00	.852	.852	.852	.852	.852
1302.00	.852	.852	.852	.851	.851
1307.00	.851	.851	.851	.851	.851
1312.00	.851	.851	.851	.851	.851
1317.00	.851	.851	.851	.851	.851
1322.00	.851	.851	.851	.851	.851
1327.00	.851	.851	.851	.851	.851
1332.00	.851	.851	.851	.851	.851
1337.00	.851	.851	.851	.851	.850
1342.00	.850	.850	.850	.850	.850
1347.00	.850	.850	.850	.850	.850
1352.00	.850	.850	.850	.850	.850
1357.00	.850	.850	.850	.850	.850
1362.00	.850	.850	.850	.850	.850
1367.00	.850	.850	.850	.850	.850
1372.00	.850	.850	.850	.850	.850
1377.00	.849	.849	.849	.849	.849
1382.00	.849	.849	.849	.849	.849
1387.00	.849	.849	.849	.849	.849
1392.00	.849	.849	.849	.849	.849
1397.00	.849	.849	.849	.849	.849
1402.00	.849	.849	.849	.849	.849
1407.00	.849	.849	.849	.849	.849
1412.00	.848	.848	.848	.848	.848
1417.00	.848	.848	.848	.848	.848
1422.00	.848	.848	.848	.848	.848
1427.00	.848	.848	.848	.848	.848
1432.00	.848	.848	.848	.848	.848
1437.00	.848	.848	.848	.848	.848
1442.00	.848	.848	.847	.847	.847
1447.00	.846	.846	.845	.844	.843

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.16

Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1452.00	.842	.841	.840	.839	.838
1457.00	.837	.835	.834	.833	.832
1462.00	.831	.830	.829	.827	.826
1467.00	.825	.825	.824	.823	.822
1472.00	.821	.820	.820	.819	.818
1477.00	.818	.817	.816	.816	.815
1482.00	.815	.814	.814	.813	.813
1487.00	.812	.812	.811	.810	.810
1492.00	.809	.809	.808	.807	.807
1497.00	.806	.806	.805	.804	.804
1502.00	.803	.803	.802	.801	.801
1507.00	.800	.799	.799	.798	.798
1512.00	.797	.796	.796	.795	.794
1517.00	.794	.793	.792	.792	.791
1522.00	.791	.790	.789	.789	.788
1527.00	.787	.787	.786	.785	.785
1532.00	.784	.783	.783	.782	.781
1537.00	.781	.780	.779	.779	.778
1542.00	.777	.777	.776	.775	.775
1547.00	.774	.773	.773	.772	.771
1552.00	.771	.770	.769	.769	.768
1557.00	.767	.767	.766	.765	.765
1562.00	.764	.763	.763	.762	.762
1567.00	.761	.760	.760	.759	.758
1572.00	.758	.757	.756	.756	.755
1577.00	.754	.754	.753	.752	.752
1582.00	.751	.751	.750	.749	.749
1587.00	.748	.747	.747	.746	.745
1592.00	.745	.744	.744	.743	.742
1597.00	.742	.741	.740	.740	.739
1602.00	.738	.738	.737	.737	.736
1607.00	.735	.735	.734	.733	.733
1612.00	.732	.732	.731	.730	.730
1617.00	.729	.728	.728	.727	.727
1622.00	.726	.725	.725	.724	.723
1627.00	.723	.722	.722	.721	.720
1632.00	.720	.719	.719	.718	.717
1637.00	.717	.716	.715	.715	.714
1642.00	.714	.713	.712	.712	.711
1647.00	.711	.710	.709	.709	.708
1652.00	.708	.707	.706	.706	.705
1657.00	.705	.704	.703	.703	.702
1662.00	.702	.701	.700	.700	.699
1667.00	.699	.698	.697	.697	.696

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.17

Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1672.00	.696	.695	.694	.694	.693
1677.00	.693	.692	.691	.691	.690
1682.00	.690	.689	.688	.688	.687
1687.00	.687	.686	.686	.685	.684
1692.00	.684	.683	.683	.682	.681
1697.00	.681	.680	.680	.679	.679
1702.00	.678	.677	.677	.676	.676
1707.00	.675	.674	.674	.673	.673
1712.00	.672	.672	.671	.670	.670
1717.00	.669	.669	.668	.668	.667
1722.00	.666	.666	.665	.665	.664
1727.00	.664	.663	.662	.662	.661
1732.00	.661	.660	.659	.659	.658
1737.00	.657	.657	.656	.656	.655
1742.00	.654	.654	.653	.653	.652
1747.00	.651	.651	.650	.649	.649
1752.00	.648	.648	.647	.646	.646
1757.00	.645	.645	.644	.643	.643
1762.00	.642	.642	.641	.640	.640
1767.00	.639	.639	.638	.637	.637
1772.00	.636	.636	.635	.634	.634
1777.00	.633	.633	.632	.631	.631
1782.00	.630	.630	.629	.629	.628
1787.00	.627	.627	.626	.626	.625
1792.00	.624	.624	.623	.623	.622
1797.00	.622	.621	.620	.620	.619
1802.00	.619	.618	.617	.617	.616
1807.00	.616	.615	.615	.614	.613
1812.00	.613	.612	.612	.611	.611
1817.00	.610	.609	.609	.608	.608
1822.00	.607	.607	.606	.605	.605
1827.00	.604	.604	.603	.603	.602
1832.00	.602	.601	.600	.600	.599
1837.00	.599	.598	.598	.597	.597
1842.00	.596	.595	.595	.594	.594
1847.00	.593	.593	.592	.592	.591

1852.00	.590	.590	.589	.589	.588
1857.00	.588	.587	.587	.586	.586
1862.00	.585	.584	.584	.583	.583
1867.00	.582	.582	.581	.581	.580
1872.00	.580	.579	.578	.578	.577
1877.00	.577	.576	.576	.575	.575
1882.00	.574	.574	.573	.573	.572
1887.00	.572	.571	.570	.570	.569

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1892.00	.569	.568	.568	.567	.567
1897.00	.566	.566	.565	.565	.564
1902.00	.564	.563	.563	.562	.562
1907.00	.561	.560	.560	.559	.559
1912.00	.558	.558	.557	.557	.556
1917.00	.556	.555	.555	.554	.554
1922.00	.553	.553	.552	.552	.551
1927.00	.551	.550	.550	.549	.549
1932.00	.548	.548	.547	.546	.546
1937.00	.545	.545	.544	.544	.543
1942.00	.543	.542	.541	.541	.540
1947.00	.540	.539	.539	.538	.538
1952.00	.537	.537	.536	.535	.535
1957.00	.534	.534	.533	.533	.532
1962.00	.532	.531	.531	.530	.530
1967.00	.529	.528	.528	.527	.527
1972.00	.526	.526	.525	.525	.524
1977.00	.524	.523	.523	.522	.522
1982.00	.521	.521	.520	.520	.519
1987.00	.518	.518	.517	.517	.516
1992.00	.516	.515	.515	.514	.514
1997.00	.513	.513	.512	.512	.511
2002.00	.511	.510	.510	.509	.509
2007.00	.508	.508	.507	.507	.506
2012.00	.506	.505	.505	.504	.504
2017.00	.503	.503	.502	.502	.501
2022.00	.501	.500	.500	.499	.499
2027.00	.498	.498	.497	.497	.496

2032.00	.496	.495	.495	.494	.494
2037.00	.493	.493	.493	.492	.492
2042.00	.491	.491	.490	.490	.489
2047.00	.489	.488	.488	.487	.487
2052.00	.486	.486	.485	.485	.484
2057.00	.484	.483	.483	.483	.482
2062.00	.482	.481	.481	.480	.480
2067.00	.479	.479	.478	.478	.477
2072.00	.477	.477	.476	.476	.475
2077.00	.475	.474	.474	.473	.473
2082.00	.472	.472	.472	.471	.471
2087.00	.470	.470	.469	.469	.468
2092.00	.468	.467	.467	.467	.466
2097.00	.466	.465	.465	.464	.464
2102.00	.463	.463	.463	.462	.462
2107.00	.461	.461	.460	.460	.460

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.19

Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2112.00	.459	.459	.458	.458	.457
2117.00	.457	.456	.456	.456	.455
2122.00	.455	.454	.454	.453	.453
2127.00	.453	.452	.452	.451	.451
2132.00	.450	.450	.450	.449	.449
2137.00	.448	.448	.448	.447	.447
2142.00	.446	.446	.445	.445	.445
2147.00	.444	.444	.443	.443	.442
2152.00	.442	.441	.441	.440	.440
2157.00	.439	.439	.439	.438	.438
2162.00	.437	.437	.436	.436	.435
2167.00	.435	.434	.434	.434	.433
2172.00	.433	.432	.432	.431	.431
2177.00	.430	.430	.429	.429	.429
2182.00	.428	.428	.427	.427	.426
2187.00	.426	.425	.425	.424	.424
2192.00	.424	.423	.423	.422	.422
2197.00	.421	.421	.420	.420	.420
2202.00	.419	.419	.418	.418	.417
2207.00	.417	.416	.416	.416	.415

2212.00	.415	.414	.414	.413	.413
2217.00	.412	.412	.412	.411	.411
2222.00	.410	.410	.409	.409	.409
2227.00	.408	.408	.407	.407	.406
2232.00	.406	.405	.405	.405	.404
2237.00	.404	.403	.403	.402	.402
2242.00	.402	.401	.401	.400	.400
2247.00	.400	.399	.399	.398	.398
2252.00	.397	.397	.397	.396	.396
2257.00	.395	.395	.394	.394	.394
2262.00	.393	.393	.392	.392	.391
2267.00	.391	.391	.390	.390	.389
2272.00	.389	.389	.388	.388	.387
2277.00	.387	.386	.386	.386	.385
2282.00	.385	.384	.384	.384	.383
2287.00	.383	.382	.382	.382	.381
2292.00	.381	.380	.380	.379	.379
2297.00	.379	.378	.378	.377	.377
2302.00	.377	.376	.376	.375	.375
2307.00	.375	.374	.374	.373	.373
2312.00	.373	.372	.372	.371	.371
2317.00	.371	.370	.370	.369	.369
2322.00	.369	.368	.368	.367	.367
2327.00	.367	.366	.366	.365	.365

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume Page 10.20
Name.... MAIN DET OUT Tag: 10 yr Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2332.00	.365	.364	.364	.363	.363
2337.00	.363	.362	.362	.361	.361
2342.00	.361	.360	.360	.360	.359
2347.01	.359	.358	.358	.358	.357
2352.00	.357	.356	.356	.356	.355
2357.00	.355				

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume Page 10.21
Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
243.00	.000	.000	.000	.000	.000
248.00	.000	.000	.000	.000	.000
253.00	.000	.000	.000	.000	.000
258.00	.000	.000	.000	.000	.000
263.00	.000	.000	.000	.000	.000
268.00	.000	.001	.001	.001	.001
273.00	.001	.001	.001	.001	.001
278.00	.001	.001	.001	.001	.002
283.00	.002	.002	.002	.002	.003
288.00	.003	.003	.003	.003	.003
293.00	.003	.003	.004	.004	.004
298.00	.004	.004	.005	.005	.005
303.00	.005	.006	.006	.006	.007
308.00	.007	.007	.008	.008	.008
313.00	.009	.009	.009	.010	.010
318.00	.010	.010	.011	.011	.012
323.00	.012	.012	.013	.013	.014
328.00	.014	.014	.015	.016	.016
333.00	.017	.017	.018	.018	.019
338.00	.019	.020	.020	.021	.021
343.00	.022	.022	.023	.023	.024
348.00	.024	.025	.025	.026	.026
353.00	.027	.028	.028	.029	.030
358.00	.031	.031	.032	.033	.034
363.00	.035	.035	.036	.037	.037
368.00	.038	.039	.039	.040	.041
373.00	.042	.042	.043	.044	.045
378.00	.046	.047	.048	.049	.050
383.00	.051	.052	.053	.054	.055
388.00	.056	.058	.059	.060	.061
393.00	.062	.063	.064	.066	.067
398.00	.068	.069	.070	.071	.073
403.00	.074	.075	.077	.078	.080
408.00	.081	.083	.084	.086	.087
413.00	.089	.091	.093	.094	.096
418.00	.098	.099	.101	.102	.104
423.00	.105	.107	.109	.110	.112
428.00	.114	.116	.117	.119	.121
433.00	.123	.125	.127	.129	.132
438.00	.134	.136	.138	.141	.143
443.00	.145	.147	.149	.151	.153
448.00	.155	.158	.160	.162	.164

453.00 | .167 .169 .171 .174 .176

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.22

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
458.00	.179	.181	.184	.186	.189
463.00	.191	.194	.197	.200	.202
468.00	.205	.207	.210	.212	.215
473.00	.218	.220	.223	.226	.229
478.00	.231	.234	.237	.240	.243
483.00	.246	.249	.252	.255	.258
488.00	.262	.265	.268	.272	.275
493.00	.278	.281	.284	.287	.290
498.00	.294	.297	.300	.304	.307
503.00	.311	.315	.318	.322	.326
508.00	.330	.334	.338	.342	.347
513.00	.351	.355	.359	.363	.367
518.00	.371	.375	.380	.384	.388
523.00	.393	.398	.402	.407	.412
528.00	.417	.422	.427	.432	.438
533.00	.443	.448	.453	.458	.464
538.00	.469	.474	.479	.485	.491
543.00	.496	.502	.508	.514	.520
548.00	.526	.532	.538	.545	.551
553.00	.557	.563	.569	.575	.581
558.00	.587	.593	.600	.606	.613
563.00	.619	.626	.633	.640	.646
568.00	.653	.660	.667	.673	.680
573.00	.687	.693	.700	.707	.714
578.00	.721	.728	.735	.742	.750
583.00	.757	.765	.772	.780	.788
588.00	.795	.803	.811	.818	.825
593.00	.832	.838	.844	.849	.855
598.00	.859	.864	.868	.872	.876
603.00	.879	.883	.886	.889	.892
608.00	.895	.897	.900	.902	.905
613.00	.907	.909	.911	.914	.916
618.00	.918	.920	.922	.924	.926
623.00	.928	.929	.931	.933	.935
628.00	.937	.939	.941	.942	.944

633.00	.946	.948	.950	.952	.954
638.00	.956	.958	.960	.962	.964
643.00	.966	.968	.970	.972	.975
648.00	.977	.979	.982	.984	.987
653.00	.989	.992	.995	.997	1.000
658.00	1.003	1.006	1.009	1.012	1.014
663.00	1.018	1.021	1.024	1.027	1.030
668.00	1.034	1.037	1.041	1.044	1.048
673.00	1.052	1.057	1.061	1.065	1.070

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.23

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
678.00	1.075	1.079	1.084	1.089	1.095
683.00	1.100	1.106	1.111	1.117	1.123
688.00	1.130	1.136	1.143	1.150	1.157
693.00	1.166	1.175	1.185	1.197	1.212
698.00	1.229	1.248	1.270	1.297	1.330
703.00	1.367	1.410	1.458	1.514	1.577
708.00	1.647	1.727	1.815	1.915	2.025
713.00	2.150	2.289	2.443	2.612	2.794
718.00	2.986	3.184	3.382	3.576	3.764
723.00	3.944	4.115	4.274	4.416	4.539
728.00	4.639	4.717	4.772	4.807	4.824
733.00	4.826	4.814	4.791	4.759	4.720
738.00	4.673	4.620	4.563	4.501	4.435
743.00	4.365	4.291	4.212	4.130	4.045
748.00	3.956	3.867	3.777	3.687	3.599
753.00	3.512	3.428	3.347	3.266	3.189
758.00	3.116	3.044	2.975	2.908	2.843
763.00	2.779	2.716	2.655	2.595	2.537
768.00	2.481	2.425	2.372	2.321	2.271
773.00	2.222	2.176	2.131	2.088	2.046
778.00	2.006	1.967	1.931	1.895	1.860
783.00	1.827	1.796	1.766	1.737	1.709
788.00	1.682	1.656	1.631	1.608	1.585
793.00	1.564	1.543	1.523	1.504	1.485
798.00	1.468	1.452	1.436	1.421	1.407
803.00	1.393	1.379	1.366	1.354	1.342
808.00	1.331	1.320	1.310	1.300	1.290

813.00	1.281	1.273	1.264	1.256	1.249
818.00	1.241	1.234	1.228	1.221	1.214
823.00	1.208	1.202	1.196	1.191	1.185
828.00	1.180	1.175	1.170	1.166	1.161
833.00	1.157	1.153	1.149	1.145	1.141
838.00	1.137	1.134	1.130	1.127	1.123
843.00	1.120	1.117	1.114	1.110	1.107
848.00	1.105	1.102	1.099	1.096	1.094
853.00	1.091	1.089	1.086	1.084	1.081
858.00	1.079	1.077	1.075	1.073	1.071
863.00	1.069	1.067	1.065	1.063	1.062
868.00	1.060	1.058	1.057	1.055	1.054
873.00	1.052	1.051	1.050	1.048	1.047
878.00	1.046	1.044	1.043	1.042	1.041
883.00	1.040	1.039	1.038	1.037	1.036
888.00	1.035	1.033	1.033	1.032	1.031
893.00	1.030	1.029	1.028	1.027	1.026

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.24

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
898.00	1.025	1.024	1.023	1.022	1.022
903.00	1.021	1.020	1.019	1.018	1.017
908.00	1.017	1.016	1.015	1.014	1.013
913.00	1.012	1.012	1.011	1.010	1.009
918.00	1.009	1.008	1.007	1.006	1.005
923.00	1.005	1.004	1.003	1.002	1.001
928.00	1.001	1.000	.999	.998	.998
933.00	.997	.996	.995	.994	.994
938.00	.993	.992	.991	.991	.990
943.00	.989	.988	.988	.987	.986
948.00	.985	.985	.984	.983	.982
953.00	.981	.981	.980	.979	.978
958.00	.978	.977	.976	.975	.975
963.00	.974	.973	.972	.972	.971
968.00	.970	.969	.969	.968	.967
973.00	.966	.966	.965	.964	.964
978.00	.963	.963	.962	.961	.961
983.00	.960	.960	.959	.959	.958
988.00	.958	.957	.957	.956	.956

993.00	.955	.955	.955	.954	.954
998.00	.953	.953	.953	.952	.952
1003.00	.951	.951	.951	.950	.950
1008.00	.950	.949	.949	.949	.948
1013.00	.948	.948	.947	.947	.947
1018.00	.947	.946	.946	.946	.945
1023.00	.945	.945	.945	.944	.944
1028.00	.944	.943	.943	.943	.943
1033.00	.942	.942	.942	.941	.941
1038.00	.941	.941	.940	.940	.940
1043.00	.940	.939	.939	.939	.938
1048.00	.938	.938	.938	.937	.937
1053.00	.937	.937	.936	.936	.936
1058.00	.935	.935	.935	.935	.934
1063.00	.934	.934	.934	.933	.933
1068.00	.933	.932	.932	.932	.932
1073.00	.931	.931	.931	.931	.930
1078.00	.930	.930	.930	.929	.929
1083.00	.929	.928	.928	.928	.928
1088.00	.927	.927	.927	.927	.926
1093.00	.926	.926	.925	.925	.925
1098.00	.925	.924	.924	.924	.924
1103.00	.923	.923	.923	.922	.922
1108.00	.922	.922	.921	.921	.921
1113.00	.921	.920	.920	.920	.919

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume Page 10.25
Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1118.00	.919	.919	.919	.918	.918
1123.00	.918	.918	.917	.917	.917
1128.00	.916	.916	.916	.916	.915
1133.00	.915	.915	.915	.914	.914
1138.00	.914	.914	.913	.913	.913
1143.00	.912	.912	.912	.912	.911
1148.00	.911	.911	.911	.910	.910
1153.00	.910	.910	.909	.909	.909
1158.00	.908	.908	.908	.908	.907
1163.00	.907	.907	.907	.906	.906
1168.00	.906	.905	.905	.905	.905

1173.00	.904	.904	.904	.904	.903
1178.00	.903	.903	.903	.902	.902
1183.00	.902	.901	.901	.901	.901
1188.00	.900	.900	.900	.900	.899
1193.00	.899	.899	.899	.898	.898
1198.00	.898	.897	.897	.897	.897
1203.00	.896	.896	.896	.896	.895
1208.00	.895	.895	.895	.894	.894
1213.00	.894	.894	.893	.893	.893
1218.00	.893	.893	.892	.892	.892
1223.00	.892	.892	.891	.891	.891
1228.00	.891	.891	.891	.891	.890
1233.00	.890	.890	.890	.890	.890
1238.00	.890	.890	.890	.890	.889
1243.00	.889	.889	.889	.889	.889
1248.00	.889	.889	.889	.889	.889
1253.00	.889	.888	.888	.888	.888
1258.00	.888	.888	.888	.888	.888
1263.00	.888	.888	.888	.888	.888
1268.00	.888	.888	.887	.887	.887
1273.00	.887	.887	.887	.887	.887
1278.00	.887	.887	.887	.887	.887
1283.00	.887	.887	.887	.887	.887
1288.00	.886	.886	.886	.886	.886
1293.00	.886	.886	.886	.886	.886
1298.00	.886	.886	.886	.886	.886
1303.00	.886	.886	.886	.886	.885
1308.00	.885	.885	.885	.885	.885
1313.00	.885	.885	.885	.885	.885
1318.00	.885	.885	.885	.885	.885
1323.00	.885	.885	.885	.884	.884
1328.00	.884	.884	.884	.884	.884
1333.00	.884	.884	.884	.884	.884

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.26

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1338.00	.884	.884	.884	.884	.884
1343.00	.884	.884	.884	.883	.883
1348.00	.883	.883	.883	.883	.883

1353.00	.883	.883	.883	.883	.883
1358.00	.883	.883	.883	.883	.883
1363.00	.883	.883	.882	.882	.882
1368.00	.882	.882	.882	.882	.882
1373.00	.882	.882	.882	.882	.882
1378.00	.882	.882	.882	.882	.882
1383.00	.882	.881	.881	.881	.881
1388.00	.881	.881	.881	.881	.881
1393.00	.881	.881	.881	.881	.881
1398.00	.881	.881	.881	.881	.881
1403.00	.881	.880	.880	.880	.880
1408.00	.880	.880	.880	.880	.880
1413.00	.880	.880	.880	.880	.880
1418.00	.880	.880	.880	.880	.880
1423.00	.879	.879	.879	.879	.879
1428.00	.879	.879	.879	.879	.879
1433.00	.879	.879	.879	.879	.879
1438.00	.879	.879	.879	.879	.878
1443.00	.878	.878	.878	.877	.876
1448.00	.875	.874	.872	.871	.869
1453.00	.867	.865	.863	.861	.859
1458.00	.857	.855	.853	.851	.849
1463.00	.847	.845	.843	.841	.839
1468.00	.837	.836	.834	.833	.831
1473.00	.830	.829	.827	.826	.825
1478.00	.824	.823	.822	.821	.820
1483.00	.820	.819	.818	.817	.817
1488.00	.816	.816	.815	.815	.814
1493.00	.814	.813	.812	.812	.811
1498.00	.811	.810	.810	.809	.808
1503.00	.808	.807	.807	.806	.805
1508.00	.805	.804	.803	.803	.802
1513.00	.802	.801	.800	.800	.799
1518.00	.798	.798	.797	.796	.796
1523.00	.795	.795	.794	.793	.793
1528.00	.792	.791	.791	.790	.789
1533.00	.789	.788	.787	.787	.786
1538.00	.785	.785	.784	.783	.783
1543.00	.782	.781	.781	.780	.779
1548.00	.779	.778	.777	.777	.776
1553.00	.775	.775	.774	.773	.773

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.27

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1558.00	.772	.771	.771	.770	.770
1563.00	.769	.768	.768	.767	.766
1568.00	.766	.765	.764	.764	.763
1573.00	.762	.762	.761	.760	.760
1578.00	.759	.758	.758	.757	.756
1583.00	.756	.755	.755	.754	.753
1588.00	.753	.752	.751	.751	.750
1593.00	.749	.749	.748	.748	.747
1598.00	.746	.746	.745	.744	.744
1603.00	.743	.742	.742	.741	.741
1608.00	.740	.739	.739	.738	.737
1613.00	.737	.736	.735	.735	.734
1618.00	.734	.733	.732	.732	.731
1623.00	.730	.730	.729	.729	.728
1628.00	.727	.727	.726	.725	.725
1633.00	.724	.724	.723	.722	.722
1638.00	.721	.721	.720	.719	.719
1643.00	.718	.717	.717	.716	.716
1648.00	.715	.714	.714	.713	.713
1653.00	.712	.711	.711	.710	.710
1658.00	.709	.708	.708	.707	.706
1663.00	.706	.705	.705	.704	.704
1668.00	.703	.702	.702	.701	.700
1673.00	.700	.699	.699	.698	.698
1678.00	.697	.696	.696	.695	.695
1683.00	.694	.693	.693	.692	.692
1688.00	.691	.690	.690	.689	.689
1693.00	.688	.687	.687	.686	.686
1698.00	.685	.684	.684	.683	.683
1703.00	.682	.682	.681	.680	.680
1708.00	.679	.679	.678	.678	.677
1713.00	.676	.676	.675	.675	.674
1718.00	.673	.673	.672	.672	.671
1723.00	.671	.670	.669	.669	.668
1728.00	.668	.667	.667	.666	.665
1733.00	.665	.664	.664	.663	.663
1738.00	.662	.661	.661	.660	.659
1743.00	.659	.658	.658	.657	.656
1748.00	.656	.655	.654	.654	.653
1753.00	.653	.652	.651	.651	.650
1758.00	.650	.649	.648	.648	.647
1763.00	.647	.646	.645	.645	.644
1768.00	.644	.643	.642	.642	.641
1773.00	.641	.640	.639	.639	.638

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.28

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1778.00	.638	.637	.636	.636	.635
1783.00	.635	.634	.633	.633	.632
1788.00	.632	.631	.630	.630	.629
1793.00	.629	.628	.628	.627	.626
1798.00	.626	.625	.625	.624	.623
1803.00	.623	.622	.622	.621	.620
1808.00	.620	.619	.619	.618	.618
1813.00	.617	.616	.616	.615	.615
1818.00	.614	.614	.613	.612	.612
1823.00	.611	.611	.610	.610	.609
1828.00	.608	.608	.607	.607	.606
1833.00	.606	.605	.605	.604	.603
1838.00	.603	.602	.602	.601	.601
1843.00	.600	.599	.599	.598	.598
1848.00	.597	.597	.596	.596	.595
1853.00	.594	.594	.593	.593	.592
1858.00	.592	.591	.591	.590	.589
1863.00	.589	.588	.588	.587	.587
1868.00	.586	.586	.585	.585	.584
1873.00	.583	.583	.582	.582	.581
1878.00	.581	.580	.580	.579	.579
1883.00	.578	.578	.577	.576	.576
1888.00	.575	.575	.574	.574	.573
1893.00	.573	.572	.572	.571	.571
1898.00	.570	.570	.569	.568	.568
1903.00	.567	.567	.566	.566	.565
1908.00	.565	.564	.564	.563	.563
1913.00	.562	.562	.561	.561	.560
1918.00	.560	.559	.559	.558	.557
1923.00	.557	.556	.556	.555	.555
1928.00	.554	.554	.553	.553	.552
1933.00	.552	.551	.551	.550	.550
1938.00	.549	.549	.548	.548	.547
1943.00	.547	.546	.545	.545	.544
1948.00	.544	.543	.543	.542	.542
1953.00	.541	.540	.540	.539	.539
1958.00	.538	.538	.537	.537	.536

1963.00	.536	.535	.535	.534	.533
1968.00	.533	.532	.532	.531	.531
1973.00	.530	.530	.529	.529	.528
1978.00	.528	.527	.526	.526	.525
1983.00	.525	.524	.524	.523	.523
1988.00	.522	.522	.521	.521	.520
1993.00	.520	.519	.519	.518	.518

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 10.29

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1998.00	.517	.517	.516	.516	.515
2003.00	.515	.514	.513	.513	.512
2008.00	.512	.511	.511	.510	.510
2013.00	.509	.509	.508	.508	.507
2018.00	.507	.506	.506	.505	.505
2023.00	.504	.504	.503	.503	.502
2028.00	.502	.501	.501	.500	.500
2033.00	.499	.499	.498	.498	.498
2038.00	.497	.497	.496	.496	.495
2043.00	.495	.494	.494	.493	.493
2048.00	.492	.492	.491	.491	.490
2053.00	.490	.489	.489	.488	.488
2058.00	.487	.487	.486	.486	.486
2063.00	.485	.485	.484	.484	.483
2068.00	.483	.482	.482	.481	.481
2073.00	.480	.480	.479	.479	.478
2078.00	.478	.478	.477	.477	.476
2083.00	.476	.475	.475	.474	.474
2088.00	.473	.473	.473	.472	.472
2093.00	.471	.471	.470	.470	.469
2098.00	.469	.468	.468	.468	.467
2103.00	.467	.466	.466	.465	.465
2108.00	.464	.464	.464	.463	.463
2113.00	.462	.462	.461	.461	.460
2118.00	.460	.460	.459	.459	.458
2123.00	.458	.457	.457	.457	.456
2128.00	.456	.455	.455	.454	.454
2133.00	.454	.453	.453	.452	.452
2138.00	.451	.451	.451	.450	.450

2143.00	.449	.449	.448	.448	.448
2148.00	.447	.447	.446	.446	.446
2153.00	.445	.445	.444	.444	.443
2158.00	.443	.442	.442	.441	.441
2163.00	.441	.440	.440	.439	.439
2168.00	.438	.438	.437	.437	.436
2173.00	.436	.435	.435	.435	.434
2178.00	.434	.433	.433	.432	.432
2183.00	.431	.431	.430	.430	.430
2188.00	.429	.429	.428	.428	.427
2193.00	.427	.426	.426	.425	.425
2198.00	.425	.424	.424	.423	.423
2203.00	.422	.422	.421	.421	.421
2208.00	.420	.420	.419	.419	.418
2213.00	.418	.417	.417	.417	.416

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Time vs. Volume

Page 10.30

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TIME vs. VOLUME (ac-ft)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
2218.00	.416	.415	.415	.414	.414
2223.00	.413	.413	.413	.412	.412
2228.00	.411	.411	.410	.410	.410
2233.00	.409	.409	.408	.408	.407
2238.00	.407	.406	.406	.406	.405
2243.00	.405				

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Vol: Elev-Area

Page 11.01

Name.... MAIN DET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Elevation (ft)	Planimeter (sq.in)	Area (sq.ft)	A1+A2+sqr(A1*A2) (sq.ft)	Volume (ac-ft)	Volume Sum (ac-ft)
949.00	-----	5	0	.000	.000
950.00	-----	2313	2426	.019	.019

951.00	-----	9362	16328	.125	.144
952.00	-----	17253	39324	.301	.444
953.00	-----	24915	62901	.481	.926
954.00	-----	30390	82822	.634	1.560
955.00	-----	34097	96677	.740	2.299
956.00	-----	37925	107982	.826	3.126
957.00	-----	41908	119700	.916	4.042
958.00	-----	46069	131916	1.009	5.051
959.00	-----	50600	144950	1.109	6.160

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2} - \text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq.rt.}(\text{Area1} * \text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment
Area1, Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Outlet Input Data

Page 12.01

Name.... Outlet 1

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 949.00 ft
Increment = .25 ft
Max. Elev.= 959.00 ft

OUTLET CONNECTIVITY

---> Forward Flow Only (UpStream to DnStream)
<--- Reverse Flow Only (DnStream to UpStream)
<---> Forward and Reverse Both Allowed

Structure	No.		Outfall	E1, ft	E2, ft
-----	----		-----	-----	-----
Orifice-Circular	mk	--->	TW	950.000	959.000
Orifice-Circular	lp	--->	TW	951.000	959.000
Orifice-Circular	lo	--->	TW	952.000	959.000

Orifice-Circular	bu	---	TW	949.000	959.000
Orifice-Area	hy	---	TW	955.800	959.000
Orifice-Area	u7	---	TW	952.800	959.000
Weir-Rectangular	W1	---	TW	957.300	959.000
TW SETUP, DS Channel					

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Outlet Input Data
Name.... Outlet 1

Page 12.02

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID	= mk
Structure Type	= Orifice-Circular

# of Openings	= 2
Invert Elev.	= 950.00 ft
Diameter	= .0800 ft
Orifice Coeff.	= .600

Structure ID	= lp
Structure Type	= Orifice-Circular

# of Openings	= 2
Invert Elev.	= 951.00 ft
Diameter	= .0800 ft
Orifice Coeff.	= .600

Structure ID	= lo
Structure Type	= Orifice-Circular

# of Openings	= 2
Invert Elev.	= 952.00 ft
Diameter	= .1250 ft
Orifice Coeff.	= .600

Structure ID	= bu
--------------	------

Structure Type = Orifice-Circular

of Openings = 2
Invert Elev. = 949.00 ft
Diameter = .1250 ft
Orifice Coeff. = .600

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Outlet Input Data

Page 12.03

Name.... Outlet 1

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = hy
Structure Type = Orifice-Area

of Openings = 1
Invert Elev. = 955.80 ft
Area = 7.0000 sq.ft
Top of Orifice = 956.80 ft
Datum Elev. = 955.80 ft
Orifice Coeff. = .600

Structure ID = u7
Structure Type = Orifice-Area

of Openings = 1
Invert Elev. = 952.80 ft
Area = 12.0000 sq.ft
Top of Orifice = 955.80 ft
Datum Elev. = 952.80 ft
Orifice Coeff. = .610

Structure ID = W1
Structure Type = Weir-Rectangular

of Openings = 1
Crest Elev. = 957.30 ft
Weir Length = 15.00 ft
Weir Coeff. = 3.000000

Weir TW effects (Use adjustment equation)

Structure ID = TW
Structure Type = TW SETUP, DS Channel

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...

Maximum Iterations= 30
Min. TW tolerance = .01 ft
Max. TW tolerance = .01 ft
Min. HW tolerance = .01 ft
Max. HW tolerance = .01 ft
Min. Q tolerance = .10 cfs
Max. Q tolerance = .10 cfs

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Individual Outlet Curves
Name.... Outlet 1

Page 12.04

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = mk (Orifice-Circular)

Upstream ID = (Pond Water Surface)
DNstream ID = TW (Pond Outfall)

NUMBER OF OPENINGS = 2

EACH FLOW = SUM OF OPENINGS x FLOW FOR ONE OPENING

WS Elev,Device Q		Tail Water		Notes
-----		-----		-----
WS Elev.	Q	TW Elev	Converge	Computation Messages
ft	cfs	ft	+/-ft	
-----	-----	-----	-----	-----
949.00	.00	Free Outfall		HW & TW below invert
949.25	.00	Free Outfall		HW & TW below invert
949.50	.00	Free Outfall		HW & TW below invert
949.75	.00	Free Outfall		HW & TW below invert
950.00	.00	Free Outfall		Upstream HW & DNstream TW < Inv.El

950.25	.02	Free Outfall	H =.21
950.50	.03	Free Outfall	H =.46
950.75	.04	Free Outfall	H =.71
951.00	.05	Free Outfall	H =.96
951.25	.05	Free Outfall	H =1.21
951.50	.06	Free Outfall	H =1.46
951.75	.06	Free Outfall	H =1.71
952.00	.07	Free Outfall	H =1.96
952.25	.07	Free Outfall	H =2.21
952.50	.08	Free Outfall	H =2.46
952.75	.08	Free Outfall	H =2.71
952.80	.08	Free Outfall	H =2.76
953.00	.08	Free Outfall	H =2.96
953.25	.09	Free Outfall	H =3.21
953.50	.09	Free Outfall	H =3.46
953.75	.09	Free Outfall	H =3.71
954.00	.10	Free Outfall	H =3.96
954.25	.10	Free Outfall	H =4.21
954.50	.10	Free Outfall	H =4.46
954.75	.11	Free Outfall	H =4.71
955.00	.11	Free Outfall	H =4.96
955.25	.11	Free Outfall	H =5.21
955.50	.11	Free Outfall	H =5.46
955.75	.12	Free Outfall	H =5.71
955.80	.12	Free Outfall	H =5.76
956.00	.12	Free Outfall	H =5.96

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Individual Outlet Curves
Name.... Outlet 1

Page 12.05

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = mk (Orifice-Circular)

Upstream ID = (Pond Water Surface)
DNstream ID = TW (Pond Outfall)

NUMBER OF OPENINGS = 2

EACH FLOW = SUM OF OPENINGS x FLOW FOR ONE OPENING

WS Elev,Device Q	Tail Water	Notes
-----	-----	-----
WS Elev. Q	TW Elev Converge	

ft	cfs	ft	+/-ft	Computation Messages
956.25	.12	Free Outfall	H =6.21	
956.50	.12	Free Outfall	H =6.46	
956.75	.13	Free Outfall	H =6.71	
957.00	.13	Free Outfall	H =6.96	
957.25	.13	Free Outfall	H =7.21	
957.30	.13	Free Outfall	H =7.26	
957.50	.13	Free Outfall	H =7.46	
957.75	.13	Free Outfall	H =7.71	
958.00	.14	Free Outfall	H =7.96	
958.25	.14	Free Outfall	H =8.21	
958.50	.14	Free Outfall	H =8.46	
958.75	.14	Free Outfall	H =8.71	
959.00	.14	Free Outfall	H =8.96	

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Individual Outlet Curves
Name.... Outlet 1

Page 12.06

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = lp (Orifice-Circular)

Upstream ID = (Pond Water Surface)
DNstream ID = TW (Pond Outfall)

NUMBER OF OPENINGS = 2

EACH FLOW = SUM OF OPENINGS x FLOW FOR ONE OPENING

WS Elev,Device Q		Tail Water		Notes
WS Elev.	Q	TW Elev Converge		
ft	cfs	ft	+/-ft	Computation Messages
949.00	.00	Free Outfall	HW & TW below invert	
949.25	.00	Free Outfall	HW & TW below invert	
949.50	.00	Free Outfall	HW & TW below invert	
949.75	.00	Free Outfall	HW & TW below invert	
950.00	.00	Free Outfall	HW & TW below invert	
950.25	.00	Free Outfall	HW & TW below invert	
950.50	.00	Free Outfall	HW & TW below invert	
950.75	.00	Free Outfall	HW & TW below invert	

951.00	.00	Free Outfall	Upstream HW & DNstream TW < Inv.El
951.25	.02	Free Outfall	H =.21
951.50	.03	Free Outfall	H =.46
951.75	.04	Free Outfall	H =.71
952.00	.05	Free Outfall	H =.96
952.25	.05	Free Outfall	H =1.21
952.50	.06	Free Outfall	H =1.46
952.75	.06	Free Outfall	H =1.71
952.80	.06	Free Outfall	H =1.76
953.00	.07	Free Outfall	H =1.96
953.25	.07	Free Outfall	H =2.21
953.50	.08	Free Outfall	H =2.46
953.75	.08	Free Outfall	H =2.71
954.00	.08	Free Outfall	H =2.96
954.25	.09	Free Outfall	H =3.21
954.50	.09	Free Outfall	H =3.46
954.75	.09	Free Outfall	H =3.71
955.00	.10	Free Outfall	H =3.96
955.25	.10	Free Outfall	H =4.21
955.50	.10	Free Outfall	H =4.46
955.75	.11	Free Outfall	H =4.71
955.80	.11	Free Outfall	H =4.76
956.00	.11	Free Outfall	H =4.96

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Individual Outlet Curves
Name.... Outlet 1

Page 12.07

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = lp (Orifice-Circular)

Upstream ID = (Pond Water Surface)

DNstream ID = TW (Pond Outfall)

NUMBER OF OPENINGS = 2

EACH FLOW = SUM OF OPENINGS x FLOW FOR ONE OPENING

WS Elev,Device Q	Tail Water	Notes
-----	-----	-----
WS Elev. Q	TW Elev Converge	
ft cfs	ft +/-ft	Computation Messages
-----	-----	-----
956.25 .11	Free Outfall H =5.21	

956.50	.11	Free Outfall	H =5.46
956.75	.12	Free Outfall	H =5.71
957.00	.12	Free Outfall	H =5.96
957.25	.12	Free Outfall	H =6.21
957.30	.12	Free Outfall	H =6.26
957.50	.12	Free Outfall	H =6.46
957.75	.13	Free Outfall	H =6.71
958.00	.13	Free Outfall	H =6.96
958.25	.13	Free Outfall	H =7.21
958.50	.13	Free Outfall	H =7.46
958.75	.13	Free Outfall	H =7.71
959.00	.14	Free Outfall	H =7.96

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Individual Outlet Curves
Name.... Outlet 1

Page 12.08

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 10 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
DNstream ID = TW (Pond Outfall)

NUMBER OF OPENINGS = 2

EACH FLOW = SUM OF OPENINGS x FLOW FOR ONE OPENING

WS Elev,Device Q		Tail Water		Notes
-----		-----		-----
WS Elev.	Q	TW Elev Converge		Computation Messages
ft	cfs	ft	+/-ft	

949.00	.00	Free Outfall		HW & TW below invert
949.25	.00	Free Outfall		HW & TW below invert
949.50	.00	Free Outfall		HW & TW below invert
949.75	.00	Free Outfall		HW & TW below invert
950.00	.00	Free Outfall		HW & TW below invert
950.25	.00	Free Outfall		HW & TW below invert
950.50	.00	Free Outfall		HW & TW below invert
950.75	.00	Free Outfall		HW & TW below invert
951.00	.00	Free Outfall		HW & TW below invert
951.25	.00	Free Outfall		HW & TW below invert
951.50	.00	Free Outfall		HW & TW below invert

951.75	.00	Free Outfall	HW & TW below invert
952.00	.00	Free Outfall	Upstream HW & DNstream TW < Inv.El
952.25	.05	Free Outfall	H =.19
952.50	.08	Free Outfall	H =.44
952.75	.10	Free Outfall	H =.69
952.80	.10	Free Outfall	H =.74
953.00	.11	Free Outfall	H =.94
953.25	.13	Free Outfall	H =1.19
953.50	.14	Free Outfall	H =1.44
953.75	.15	Free Outfall	H =1.69
954.00	.16	Free Outfall	H =1.94
954.25	.17	Free Outfall	H =2.19
954.50	.18	Free Outfall	H =2.44
954.75	.19	Free Outfall	H =2.69
955.00	.20	Free Outfall	H =2.94
955.25	.21	Free Outfall	H =3.19
955.50	.22	Free Outfall	H =3.44
955.75	.23	Free Outfall	H =3.69
955.80	.23	Free Outfall	H =3.74
956.00	.23	Free Outfall	H =3.94

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Individual Outlet Curves
Name.... Outlet 1

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File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 1o (Orifice-Circular)

Upstream ID = (Pond Water Surface)

DNstream ID = TW (Pond Outfall)

NUMBER OF OPENINGS = 2

EACH FLOW = SUM OF OPENINGS x FLOW FOR ONE OPENING

WS Elev,Device Q	Tail Water	Notes
-----	-----	-----
WS Elev. Q	TW Elev Converge	
ft cfs	ft +/-ft	Computation Messages
-----	-----	-----
956.25 .24	Free Outfall H =4.19	
956.50 .25	Free Outfall H =4.44	
956.75 .26	Free Outfall H =4.69	
957.00 .26	Free Outfall H =4.94	

957.25	.27	Free Outfall	H =5.19
957.30	.27	Free Outfall	H =5.24
957.50	.28	Free Outfall	H =5.44
957.75	.28	Free Outfall	H =5.69
958.00	.29	Free Outfall	H =5.94
958.25	.29	Free Outfall	H =6.19
958.50	.30	Free Outfall	H =6.44
958.75	.31	Free Outfall	H =6.69
959.00	.31	Free Outfall	H =6.94

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Type.... Individual Outlet Curves
Name.... Outlet 1

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File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = bu (Orifice-Circular)

Upstream ID = (Pond Water Surface)
DNstream ID = TW (Pond Outfall)

NUMBER OF OPENINGS = 2

EACH FLOW = SUM OF OPENINGS x FLOW FOR ONE OPENING

WS Elev,Device Q		Tail Water		Notes
-----		-----		-----
WS Elev.	Q	TW Elev Converge		
ft	cfs	ft	+/-ft	Computation Messages
-----		-----	-----	-----
949.00	.00	Free Outfall		Upstream HW & DNstream TW < Inv.El
949.25	.05	Free Outfall		H =.19
949.50	.08	Free Outfall		H =.44
949.75	.10	Free Outfall		H =.69
950.00	.11	Free Outfall		H =.94
950.25	.13	Free Outfall		H =1.19
950.50	.14	Free Outfall		H =1.44
950.75	.15	Free Outfall		H =1.69
951.00	.16	Free Outfall		H =1.94
951.25	.17	Free Outfall		H =2.19
951.50	.18	Free Outfall		H =2.44
951.75	.19	Free Outfall		H =2.69
952.00	.20	Free Outfall		H =2.94
952.25	.21	Free Outfall		H =3.19

952.50	.22	Free Outfall	H =3.44
952.75	.23	Free Outfall	H =3.69
952.80	.23	Free Outfall	H =3.74
953.00	.23	Free Outfall	H =3.94
953.25	.24	Free Outfall	H =4.19
953.50	.25	Free Outfall	H =4.44
953.75	.26	Free Outfall	H =4.69
954.00	.26	Free Outfall	H =4.94
954.25	.27	Free Outfall	H =5.19
954.50	.28	Free Outfall	H =5.44
954.75	.28	Free Outfall	H =5.69
955.00	.29	Free Outfall	H =5.94
955.25	.29	Free Outfall	H =6.19
955.50	.30	Free Outfall	H =6.44
955.75	.31	Free Outfall	H =6.69
955.80	.31	Free Outfall	H =6.74
956.00	.31	Free Outfall	H =6.94

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PondPack Ver: Compute Time:

Date:



Type.... Individual Outlet Curves
Name.... Outlet 1

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File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = bu (Orifice-Circular)

Upstream ID = (Pond Water Surface)

DNstream ID = TW (Pond Outfall)

NUMBER OF OPENINGS = 2

EACH FLOW = SUM OF OPENINGS x FLOW FOR ONE OPENING

WS Elev,Device Q		Tail Water		Notes
WS Elev.	Q	TW Elev Converge		Computation Messages
ft	cfs	ft	+/-ft	
956.25	.32	Free Outfall	H =7.19	
956.50	.32	Free Outfall	H =7.44	
956.75	.33	Free Outfall	H =7.69	
957.00	.33	Free Outfall	H =7.94	
957.25	.34	Free Outfall	H =8.19	
957.30	.34	Free Outfall	H =8.24	
957.50	.34	Free Outfall	H =8.44	

957.75	.35	Free Outfall	H =8.69
958.00	.35	Free Outfall	H =8.94
958.25	.36	Free Outfall	H =9.19
958.50	.36	Free Outfall	H =9.44
958.75	.37	Free Outfall	H =9.69
959.00	.37	Free Outfall	H =9.94

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Type.... Individual Outlet Curves
Name.... Outlet 1

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File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = hy (Orifice-Area)

Upstream ID = (Pond Water Surface)
DNstream ID = TW (Pond Outfall)

WS Elev,Device Q		Tail Water		Notes
-----		-----		-----
WS Elev.	Q	TW Elev Converge		Computation Messages
ft	cfs	ft	+/-ft	
-----		-----	-----	-----
949.00	.00	Free Outfall		HW & TW below invert
949.25	.00	Free Outfall		HW & TW below invert
949.50	.00	Free Outfall		HW & TW below invert
949.75	.00	Free Outfall		HW & TW below invert
950.00	.00	Free Outfall		HW & TW below invert
950.25	.00	Free Outfall		HW & TW below invert
950.50	.00	Free Outfall		HW & TW below invert
950.75	.00	Free Outfall		HW & TW below invert
951.00	.00	Free Outfall		HW & TW below invert
951.25	.00	Free Outfall		HW & TW below invert
951.50	.00	Free Outfall		HW & TW below invert
951.75	.00	Free Outfall		HW & TW below invert
952.00	.00	Free Outfall		HW & TW below invert
952.25	.00	Free Outfall		HW & TW below invert
952.50	.00	Free Outfall		HW & TW below invert
952.75	.00	Free Outfall		HW & TW below invert
952.80	.00	Free Outfall		HW & TW below invert
953.00	.00	Free Outfall		HW & TW below invert
953.25	.00	Free Outfall		HW & TW below invert
953.50	.00	Free Outfall		HW & TW below invert

953.75	.00	Free Outfall	HW & TW below invert
954.00	.00	Free Outfall	HW & TW below invert
954.25	.00	Free Outfall	HW & TW below invert
954.50	.00	Free Outfall	HW & TW below invert
954.75	.00	Free Outfall	HW & TW below invert
955.00	.00	Free Outfall	HW & TW below invert
955.25	.00	Free Outfall	HW & TW below invert
955.50	.00	Free Outfall	HW & TW below invert
955.75	.00	Free Outfall	HW & TW below invert
955.80	.00	Free Outfall	Hi=.00; Ht=1.00; Qt=33.69
956.00	6.74	Free Outfall	Hi=.20; Ht=1.00; Qt=33.69
956.25	15.16	Free Outfall	Hi=.45; Ht=1.00; Qt=33.69
956.50	23.58	Free Outfall	Hi=.70; Ht=1.00; Qt=33.69
956.75	32.01	Free Outfall	Hi=.95; Ht=1.00; Qt=33.69

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Date:



Type.... Individual Outlet Curves
Name.... Outlet 1

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File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = hy (Orifice-Area)

Upstream ID = (Pond Water Surface)
DNstream ID = TW (Pond Outfall)

WS Elev,Device Q		Tail Water		Notes
-----		-----		-----
WS Elev.	Q	TW Elev Converge		Computation Messages
ft	cfs	ft	+/-ft	

957.00	36.91	Free Outfall		H =1.20
957.25	40.57	Free Outfall		H =1.45
957.30	41.26	Free Outfall		H =1.50
957.50	43.93	Free Outfall		H =1.70
957.75	47.05	Free Outfall		H =1.95
958.00	49.97	Free Outfall		H =2.20
958.25	52.74	Free Outfall		H =2.45
958.50	55.36	Free Outfall		H =2.70
958.75	57.87	Free Outfall		H =2.95
959.00	60.27	Free Outfall		H =3.20

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PondPack Ver:

Compute Time:

Date:



Type.... Individual Outlet Curves

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Name.... Outlet 1

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = u7 (Orifice-Area)

Upstream ID = (Pond Water Surface)

DNstream ID = TW (Pond Outfall)

WS Elev,Device Q		Tail Water		Notes
-----		-----		-----
WS Elev.	Q	TW Elev	Converge	Computation Messages
ft	cfs	ft	+/-ft	
-----		-----		-----
949.00	.00	Free Outfall		HW & TW below invert
949.25	.00	Free Outfall		HW & TW below invert
949.50	.00	Free Outfall		HW & TW below invert
949.75	.00	Free Outfall		HW & TW below invert
950.00	.00	Free Outfall		HW & TW below invert
950.25	.00	Free Outfall		HW & TW below invert
950.50	.00	Free Outfall		HW & TW below invert
950.75	.00	Free Outfall		HW & TW below invert
951.00	.00	Free Outfall		HW & TW below invert
951.25	.00	Free Outfall		HW & TW below invert
951.50	.00	Free Outfall		HW & TW below invert
951.75	.00	Free Outfall		HW & TW below invert
952.00	.00	Free Outfall		HW & TW below invert
952.25	.00	Free Outfall		HW & TW below invert
952.50	.00	Free Outfall		HW & TW below invert
952.75	.00	Free Outfall		HW & TW below invert
952.80	.00	Free Outfall		Hi=.00; Ht=3.00; Qt=101.70
953.00	6.78	Free Outfall		Hi=.20; Ht=3.00; Qt=101.70
953.25	15.26	Free Outfall		Hi=.45; Ht=3.00; Qt=101.70
953.50	23.73	Free Outfall		Hi=.70; Ht=3.00; Qt=101.70
953.75	32.21	Free Outfall		Hi=.95; Ht=3.00; Qt=101.70
954.00	40.68	Free Outfall		Hi=1.20; Ht=3.00; Qt=101.70
954.25	49.16	Free Outfall		Hi=1.45; Ht=3.00; Qt=101.70
954.50	57.63	Free Outfall		Hi=1.70; Ht=3.00; Qt=101.70
954.75	66.11	Free Outfall		Hi=1.95; Ht=3.00; Qt=101.70
955.00	74.58	Free Outfall		Hi=2.20; Ht=3.00; Qt=101.70
955.25	83.06	Free Outfall		Hi=2.45; Ht=3.00; Qt=101.70
955.50	91.53	Free Outfall		Hi=2.70; Ht=3.00; Qt=101.70
955.75	100.01	Free Outfall		Hi=2.95; Ht=3.00; Qt=101.70

955.80	101.70	Free Outfall	H =3.00
956.00	105.04	Free Outfall	H =3.20
956.25	109.07	Free Outfall	H =3.45
956.50	112.95	Free Outfall	H =3.70
956.75	116.70	Free Outfall	H =3.95

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Type.... Individual Outlet Curves
Name.... Outlet 1

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File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = u7 (Orifice-Area)

Upstream ID = (Pond Water Surface)
DNstream ID = TW (Pond Outfall)

WS Elev,Device Q		Tail Water		Notes
-----		-----		-----
WS Elev.	Q	TW Elev Converge		Computation Messages
ft	cfs	ft	+/-ft	

957.00	120.34	Free Outfall		H =4.20
957.25	123.87	Free Outfall		H =4.45
957.30	124.56	Free Outfall		H =4.50
957.50	127.30	Free Outfall		H =4.70
957.75	130.64	Free Outfall		H =4.95
958.00	133.90	Free Outfall		H =5.20
958.25	137.08	Free Outfall		H =5.45
958.50	140.19	Free Outfall		H =5.70
958.75	143.23	Free Outfall		H =5.95
959.00	146.21	Free Outfall		H =6.20

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PondPack Ver: Compute Time:

Date:



Type.... Individual Outlet Curves
Name.... Outlet 1

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File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = W1 (Weir-Rectangular)

Upstream ID = (Pond Water Surface)

DNstream ID = TW (Pond Outfall)

WS Elev,Device Q		Tail Water		Notes
WS Elev.	Q	TW Elev	Converge	
ft	cfs	ft	+/-ft	Computation Messages
949.00	.00	Free Outfall	HW & TW below	Inv.El.=957.300
949.25	.00	Free Outfall	HW & TW below	Inv.El.=957.300
949.50	.00	Free Outfall	HW & TW below	Inv.El.=957.300
949.75	.00	Free Outfall	HW & TW below	Inv.El.=957.300
950.00	.00	Free Outfall	HW & TW below	Inv.El.=957.300
950.25	.00	Free Outfall	HW & TW below	Inv.El.=957.300
950.50	.00	Free Outfall	HW & TW below	Inv.El.=957.300
950.75	.00	Free Outfall	HW & TW below	Inv.El.=957.300
951.00	.00	Free Outfall	HW & TW below	Inv.El.=957.300
951.25	.00	Free Outfall	HW & TW below	Inv.El.=957.300
951.50	.00	Free Outfall	HW & TW below	Inv.El.=957.300
951.75	.00	Free Outfall	HW & TW below	Inv.El.=957.300
952.00	.00	Free Outfall	HW & TW below	Inv.El.=957.300
952.25	.00	Free Outfall	HW & TW below	Inv.El.=957.300
952.50	.00	Free Outfall	HW & TW below	Inv.El.=957.300
952.75	.00	Free Outfall	HW & TW below	Inv.El.=957.300
952.80	.00	Free Outfall	HW & TW below	Inv.El.=957.300
953.00	.00	Free Outfall	HW & TW below	Inv.El.=957.300
953.25	.00	Free Outfall	HW & TW below	Inv.El.=957.300
953.50	.00	Free Outfall	HW & TW below	Inv.El.=957.300
953.75	.00	Free Outfall	HW & TW below	Inv.El.=957.300
954.00	.00	Free Outfall	HW & TW below	Inv.El.=957.300
954.25	.00	Free Outfall	HW & TW below	Inv.El.=957.300
954.50	.00	Free Outfall	HW & TW below	Inv.El.=957.300
954.75	.00	Free Outfall	HW & TW below	Inv.El.=957.300
955.00	.00	Free Outfall	HW & TW below	Inv.El.=957.300
955.25	.00	Free Outfall	HW & TW below	Inv.El.=957.300
955.50	.00	Free Outfall	HW & TW below	Inv.El.=957.300
955.75	.00	Free Outfall	HW & TW below	Inv.El.=957.300
955.80	.00	Free Outfall	HW & TW below	Inv.El.=957.300
956.00	.00	Free Outfall	HW & TW below	Inv.El.=957.300
956.25	.00	Free Outfall	HW & TW below	Inv.El.=957.300
956.50	.00	Free Outfall	HW & TW below	Inv.El.=957.300
956.75	.00	Free Outfall	HW & TW below	Inv.El.=957.300

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Type.... Individual Outlet Curves
 Name.... Outlet 1

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File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = W1 (Weir-Rectangular)

 Upstream ID = (Pond Water Surface)
 DNstream ID = TW (Pond Outfall)

WS Elev,Device Q		Tail Water		Notes
-----		-----		-----
WS Elev.	Q	TW Elev	Converge	Computation Messages
ft	cfs	ft	+/-ft	
-----		-----		-----
957.00	.00	Free Outfall		HW & TW below Inv.El.=957.300
957.25	.00	Free Outfall		HW & TW below Inv.El.=957.300
957.30	.00	Free Outfall		H=.00; Htw=.00; Qfree=.00;
957.50	4.03	Free Outfall		H=.20; Htw=.00; Qfree=4.03;
957.75	13.58	Free Outfall		H=.45; Htw=.00; Qfree=13.58;
958.00	26.36	Free Outfall		H=.70; Htw=.00; Qfree=26.36;
958.25	41.67	Free Outfall		H=.95; Htw=.00; Qfree=41.67;
958.50	59.15	Free Outfall		H=1.20; Htw=.00; Qfree=59.15;
958.75	78.57	Free Outfall		H=1.45; Htw=.00; Qfree=78.57;
959.00	99.74	Free Outfall		H=1.70; Htw=.00; Qfree=99.74;

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 PondPack Ver: Compute Time:

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Type.... Composite Rating Curve
 Name.... Outlet 1

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File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

***** COMPOSITE OUTFLOW SUMMARY *****

WS Elev, Total Q				Notes
-----		Converge		-----
Elev.	Q	TW Elev	Error	Contributing Structures
ft	cfs	ft	+/-ft	
-----		-----		-----
949.00	.00	Free Outfall		None contributing
949.25	.05	Free Outfall	bu	

949.50	.08	Free Outfall	bu
949.75	.10	Free Outfall	bu
950.00	.11	Free Outfall	bu
950.25	.15	Free Outfall	mk +bu
950.50	.17	Free Outfall	mk +bu
950.75	.19	Free Outfall	mk +bu
951.00	.21	Free Outfall	mk +bu
951.25	.25	Free Outfall	mk +lp +bu
951.50	.28	Free Outfall	mk +lp +bu
951.75	.30	Free Outfall	mk +lp +bu
952.00	.32	Free Outfall	mk +lp +bu
952.25	.39	Free Outfall	mk +lp +lo +bu
952.50	.43	Free Outfall	mk +lp +lo +bu
952.75	.47	Free Outfall	mk +lp +lo +bu
952.80	.47	Free Outfall	mk +lp +lo +bu +u7
953.00	7.28	Free Outfall	mk +lp +lo +bu +u7
953.25	15.79	Free Outfall	mk +lp +lo +bu +u7
953.50	24.29	Free Outfall	mk +lp +lo +bu +u7
953.75	32.79	Free Outfall	mk +lp +lo +bu +u7
954.00	41.29	Free Outfall	mk +lp +lo +bu +u7
954.25	49.79	Free Outfall	mk +lp +lo +bu +u7
954.50	58.28	Free Outfall	mk +lp +lo +bu +u7
954.75	66.78	Free Outfall	mk +lp +lo +bu +u7
955.00	75.28	Free Outfall	mk +lp +lo +bu +u7
955.25	83.77	Free Outfall	mk +lp +lo +bu +u7
955.50	92.27	Free Outfall	mk +lp +lo +bu +u7
955.75	100.76	Free Outfall	mk +lp +lo +bu +u7
955.80	102.46	Free Outfall	mk +lp +lo +bu +hy +u7
956.00	112.55	Free Outfall	mk +lp +lo +bu +hy +u7
956.25	125.02	Free Outfall	mk +lp +lo +bu +hy +u7
956.50	137.34	Free Outfall	mk +lp +lo +bu +hy +u7
956.75	149.53	Free Outfall	mk +lp +lo +bu +hy +u7
957.00	158.09	Free Outfall	mk +lp +lo +bu +hy +u7
957.25	165.30	Free Outfall	mk +lp +lo +bu +hy +u7
957.30	166.69	Free Outfall	mk +lp +lo +bu +hy +u7 +W1
957.50	176.13	Free Outfall	mk +lp +lo +bu +hy +u7 +W1

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Type.... Composite Rating Curve

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Name.... Outlet 1

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

***** COMPOSITE OUTFLOW SUMMARY *****

WS Elev, Total Q

Notes

----- Converge -----

Elev. ft	Q cfs	TW Elev ft	Error +/-ft	Contributing Structures
957.75	192.16	Free Outfall		mk +lp +lo +bu +hy +u7 +W1
958.00	211.13	Free Outfall		mk +lp +lo +bu +hy +u7 +W1
958.25	232.41	Free Outfall		mk +lp +lo +bu +hy +u7 +W1
958.50	255.64	Free Outfall		mk +lp +lo +bu +hy +u7 +W1
958.75	280.62	Free Outfall		mk +lp +lo +bu +hy +u7 +W1
959.00	307.19	Free Outfall		mk +lp +lo +bu +hy +u7 +W1

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PondPack Ver: Compute Time:

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Type.... Pond E-V-Q Table

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Name.... MAIN DET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

LEVEL POOL ROUTING DATA

HYG Dir = F:\PJJ HM AsBuilt\
Inflow HYG file = NONE STORED - MAIN DET IN 10 yr
Outflow HYG file = NONE STORED - MAIN DET OUT 10 yr

Pond Node Data = MAIN DET
Pond Volume Data = MAIN DET
Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

Starting WS Elev = 949.00 ft
Starting Volume = .000 ac-ft
Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + 0 cfs
949.00	.00	.000	5	.00	.00	.00
949.25	.05	.000	188	.00	.05	.67
949.50	.08	.003	633	.00	.08	3.94
949.75	.10	.008	1342	.00	.10	12.00
950.00	.11	.019	2313	.00	.11	27.06
950.25	.15	.035	3631	.00	.15	51.66
950.50	.17	.061	5245	.00	.17	88.47
950.75	.19	.096	7156	.00	.19	139.95
951.00	.21	.144	9362	.00	.21	208.59

951.25	.25	.202	11110	.00	.25	293.82
951.50	.28	.271	13008	.00	.28	394.24
951.75	.30	.352	15056	.00	.30	511.09
952.00	.32	.444	17253	.00	.32	645.63
952.25	.39	.549	19037	.00	.39	796.85
952.50	.43	.663	20909	.00	.43	963.27
952.75	.47	.789	22868	.00	.47	1145.64
952.80	.47	.815	23270	.00	.47	1184.09
953.00	7.28	.926	24915	.00	7.28	1351.49
953.25	15.79	1.073	26233	.00	15.79	1573.09
953.50	24.29	1.227	27585	.00	24.29	1805.81

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond E-V-Q Table

Page 13.02

Name.... MAIN DET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

LEVEL POOL ROUTING DATA

HYG Dir = F:\PJJ HM AsBuilt\
Inflow HYG file = NONE STORED - MAIN DET IN 10 yr
Outflow HYG file = NONE STORED - MAIN DET OUT 10 yr

Pond Node Data = MAIN DET
Pond Volume Data = MAIN DET
Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

Starting WS Elev = 949.00 ft
Starting Volume = .000 ac-ft
Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + 0 cfs
953.75	32.79	1.389	28970	.00	32.79	2049.93
954.00	41.29	1.560	30390	.00	41.29	2305.74
954.25	49.79	1.737	31297	.00	49.79	2571.26
954.50	58.28	1.919	32217	.00	58.28	2844.38
954.75	66.78	2.106	33150	.00	66.78	3125.23
955.00	75.28	2.299	34097	.00	75.28	3413.92
955.25	83.77	2.498	35035	.00	83.77	3710.45

955.50	92.27	2.702	35986	.00	92.27	4014.86
955.75	100.76	2.911	36949	.00	100.76	4327.23
955.80	102.46	2.953	37143	.00	102.46	4390.66
956.00	112.55	3.126	37925	.00	112.55	4650.99
956.25	125.02	3.346	38902	.00	125.02	4983.56
956.50	137.34	3.572	39892	.00	137.34	5324.18
956.75	149.53	3.804	40894	.00	149.53	5672.97
957.00	158.09	4.042	41908	.00	158.09	6026.52
957.25	165.30	4.285	42930	.00	165.30	6387.21
957.30	166.69	4.334	43136	.00	166.69	6460.30
957.50	176.13	4.534	43964	.00	176.13	6760.09
957.75	192.16	4.790	45010	.00	192.16	7146.84
958.00	211.13	5.051	46069	.00	211.13	7545.30

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond E-V-Q Table

Page 13.03

Name.... MAIN DET

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

LEVEL POOL ROUTING DATA

HYG Dir = F:\PJJ HM AsBuilt\
Inflow HYG file = NONE STORED - MAIN DET IN 10 yr
Outflow HYG file = NONE STORED - MAIN DET OUT 10 yr

Pond Node Data = MAIN DET
Pond Volume Data = MAIN DET
Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

Starting WS Elev = 949.00 ft
Starting Volume = .000 ac-ft
Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = 1.00 min

Elevation ft	Outflow cfs	Storage ac-ft	Area sq.ft	Infilt. cfs	Q Total cfs	2S/t + 0 cfs

958.25	232.41	5.319	47182	.00	232.41	7955.11
958.50	255.64	5.593	48308	.00	255.64	8376.21
958.75	280.62	5.873	49447	.00	280.62	8808.49
959.00	307.19	6.160	50600	.00	307.19	9251.91

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 13.04

Name.... MAIN DET IN

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

SUMMARY FOR HYDROGRAPH ADDITION
at Node: MAIN DET IN

HYG Directory: F:\PJJ HM AsBuilt\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ADDLINK 20	HIGHLAND MEADOWS		HIGHLAND MEADOWS	2
ADDLINK 10	OFFSITE DET		OFFSITE DET	2
ADDLINK 40	OFFSITE NON-DET		OFFSITE NON-DET	2

INFLOWS TO: MAIN DET IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	HIGHLAND MEADOWS	2	2.293	722.00	34.11
	OFFSITE DET	2	1.783	732.00	16.99
	OFFSITE NON-DET	2	.382	722.00	5.83

TOTAL FLOW INTO: MAIN DET IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	MAIN DET	IN 2	4.458	723.00	51.87

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 13.05

Name.... MAIN DET IN

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

TOTAL NODE INFLOW...
HYG file =
HYG ID = MAIN DET IN
HYG Tag = 2

Peak Discharge = 51.87 cfs
Time to Peak = 723.00 min
HYG Volume = 4.458 ac-ft

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
535.00	.00	.00	.00	.00	.00
540.00	.01	.01	.01	.01	.01
545.00	.01	.02	.02	.02	.02
550.00	.03	.03	.03	.03	.04
555.00	.04	.04	.05	.05	.05
560.00	.05	.06	.06	.06	.06
565.00	.07	.07	.07	.07	.08
570.00	.08	.08	.09	.09	.09
575.00	.09	.10	.10	.10	.11
580.00	.11	.11	.11	.12	.12
585.00	.13	.13	.13	.14	.14
590.00	.14	.15	.15	.16	.16
595.00	.17	.17	.17	.18	.18
600.00	.19	.19	.20	.20	.21
605.00	.21	.22	.22	.23	.23
610.00	.24	.25	.25	.26	.26
615.00	.27	.28	.28	.29	.30
620.00	.30	.31	.32	.33	.33
625.00	.34	.35	.36	.36	.37
630.00	.38	.39	.40	.41	.42
635.00	.42	.43	.44	.45	.46
640.00	.47	.49	.50	.51	.52
645.00	.53	.54	.56	.57	.58
650.00	.60	.61	.63	.64	.65
655.00	.67	.68	.70	.72	.73
660.00	.75	.77	.79	.81	.83
665.00	.85	.87	.90	.93	.95
670.00	.99	1.02	1.05	1.09	1.13
675.00	1.17	1.21	1.25	1.30	1.34
680.00	1.39	1.44	1.50	1.55	1.60
685.00	1.66	1.72	1.78	1.84	1.91

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 13.06

Name.... MAIN DET IN

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
690.00	1.98	2.06	2.17	2.30	2.48
695.00	2.67	2.94	3.25	3.65	4.09
700.00	4.62	5.28	6.03	6.88	7.80
705.00	8.94	10.15	11.54	12.98	14.89
710.00	16.89	19.22	21.78	24.98	28.40
715.00	31.99	35.51	39.20	42.45	45.51
720.00	47.78	49.92	51.06	51.87	51.77
725.00	50.99	49.55	47.86	45.93	43.55
730.00	41.18	39.06	37.03	34.99	33.05
735.00	31.54	30.13	28.70	27.35	26.14
740.00	25.02	23.88	22.82	21.79	20.83
745.00	19.92	19.06	18.22	17.41	16.72
750.00	16.06	15.41	14.78	14.25	13.73
755.00	13.23	12.73	12.31	11.90	11.51
760.00	11.13	10.81	10.49	10.19	9.89
765.00	9.65	9.42	9.19	8.96	8.77
770.00	8.58	8.39	8.21	8.06	7.90
775.00	7.75	7.60	7.47	7.35	7.22
780.00	7.09	6.98	6.87	6.76	6.65
785.00	6.56	6.46	6.37	6.28	6.19
790.00	6.11	6.03	5.96	5.88	5.82
795.00	5.75	5.68	5.62	5.56	5.50
800.00	5.44	5.39	5.33	5.28	5.22
805.00	5.17	5.12	5.07	5.02	4.97
810.00	4.92	4.87	4.83	4.78	4.74
815.00	4.70	4.65	4.61	4.58	4.54
820.00	4.50	4.46	4.43	4.39	4.36
825.00	4.32	4.29	4.26	4.22	4.19
830.00	4.16	4.13	4.09	4.06	4.03
835.00	4.00	3.97	3.94	3.91	3.88
840.00	3.85	3.82	3.79	3.76	3.74
845.00	3.71	3.68	3.66	3.63	3.61
850.00	3.59	3.56	3.54	3.52	3.50
855.00	3.48	3.47	3.45	3.43	3.42
860.00	3.40	3.39	3.37	3.36	3.35
865.00	3.33	3.32	3.31	3.29	3.28
870.00	3.27	3.26	3.25	3.24	3.22
875.00	3.21	3.20	3.19	3.18	3.17
880.00	3.16	3.15	3.14	3.13	3.12
885.00	3.11	3.10	3.09	3.08	3.07
890.00	3.06	3.05	3.04	3.03	3.02
895.00	3.01	3.00	2.99	2.98	2.97
900.00	2.96	2.95	2.94	2.93	2.92
905.00	2.91	2.90	2.89	2.88	2.87
910.00	2.86	2.85	2.84	2.83	2.82

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
915.00	2.81	2.80	2.79	2.78	2.77	
920.00	2.76	2.75	2.74	2.73	2.72	
925.00	2.71	2.70	2.69	2.68	2.67	
930.00	2.66	2.65	2.64	2.63	2.62	
935.00	2.61	2.60	2.59	2.58	2.57	
940.00	2.56	2.55	2.54	2.53	2.52	
945.00	2.51	2.50	2.48	2.47	2.46	
950.00	2.45	2.44	2.43	2.42	2.41	
955.00	2.40	2.39	2.38	2.37	2.36	
960.00	2.35	2.34	2.33	2.32	2.31	
965.00	2.30	2.29	2.28	2.27	2.26	
970.00	2.26	2.25	2.24	2.23	2.23	
975.00	2.22	2.21	2.21	2.20	2.19	
980.00	2.19	2.18	2.18	2.17	2.17	
985.00	2.16	2.16	2.15	2.15	2.15	
990.00	2.14	2.14	2.13	2.13	2.12	
995.00	2.12	2.12	2.11	2.11	2.10	
1000.00	2.10	2.10	2.09	2.09	2.09	
1005.00	2.08	2.08	2.07	2.07	2.07	
1010.00	2.06	2.06	2.06	2.05	2.05	
1015.00	2.04	2.04	2.04	2.03	2.03	
1020.00	2.03	2.02	2.02	2.02	2.01	
1025.00	2.01	2.00	2.00	2.00	1.99	
1030.00	1.99	1.99	1.98	1.98	1.98	
1035.00	1.97	1.97	1.96	1.96	1.96	
1040.00	1.95	1.95	1.95	1.94	1.94	
1045.00	1.94	1.93	1.93	1.92	1.92	
1050.00	1.92	1.91	1.91	1.91	1.90	
1055.00	1.90	1.90	1.89	1.89	1.88	
1060.00	1.88	1.88	1.87	1.87	1.87	
1065.00	1.86	1.86	1.86	1.85	1.85	
1070.00	1.84	1.84	1.84	1.83	1.83	
1075.00	1.83	1.82	1.82	1.81	1.81	
1080.00	1.81	1.80	1.80	1.80	1.79	
1085.00	1.79	1.78	1.78	1.78	1.77	
1090.00	1.77	1.77	1.76	1.76	1.75	
1095.00	1.75	1.75	1.74	1.74	1.74	
1100.00	1.73	1.73	1.73	1.72	1.72	

1105.00	1.71	1.71	1.71	1.70	1.70
1110.00	1.69	1.69	1.69	1.68	1.68
1115.00	1.68	1.67	1.67	1.66	1.66
1120.00	1.66	1.65	1.65	1.65	1.64
1125.00	1.64	1.63	1.63	1.63	1.62
1130.00	1.62	1.61	1.61	1.61	1.60
1135.00	1.60	1.60	1.59	1.59	1.58

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1140.00	1.58	1.58	1.57	1.57	1.56
1145.00	1.56	1.56	1.55	1.55	1.55
1150.00	1.54	1.54	1.53	1.53	1.53
1155.00	1.52	1.52	1.51	1.51	1.51
1160.00	1.50	1.50	1.50	1.49	1.49
1165.00	1.48	1.48	1.48	1.47	1.47
1170.00	1.46	1.46	1.46	1.45	1.45
1175.00	1.45	1.44	1.44	1.43	1.43
1180.00	1.43	1.42	1.42	1.41	1.41
1185.00	1.41	1.40	1.40	1.39	1.39
1190.00	1.39	1.38	1.38	1.37	1.37
1195.00	1.37	1.36	1.36	1.35	1.35
1200.00	1.35	1.34	1.34	1.34	1.33
1205.00	1.33	1.32	1.32	1.32	1.32
1210.00	1.31	1.31	1.31	1.30	1.30
1215.00	1.30	1.30	1.30	1.29	1.29
1220.00	1.29	1.29	1.29	1.29	1.28
1225.00	1.28	1.28	1.28	1.28	1.28
1230.00	1.28	1.28	1.28	1.27	1.27
1235.00	1.27	1.27	1.27	1.27	1.27
1240.00	1.27	1.27	1.27	1.27	1.26
1245.00	1.26	1.26	1.26	1.26	1.26
1250.00	1.26	1.26	1.26	1.26	1.26
1255.00	1.26	1.26	1.25	1.25	1.25
1260.00	1.25	1.25	1.25	1.25	1.25
1265.00	1.25	1.25	1.25	1.25	1.25
1270.00	1.25	1.24	1.24	1.24	1.24
1275.00	1.24	1.24	1.24	1.24	1.24
1280.00	1.24	1.24	1.24	1.24	1.24
1285.00	1.23	1.23	1.23	1.23	1.23

1290.00	1.23	1.23	1.23	1.23	1.23
1295.00	1.23	1.23	1.23	1.23	1.22
1300.00	1.22	1.22	1.22	1.22	1.22
1305.00	1.22	1.22	1.22	1.22	1.22
1310.00	1.22	1.22	1.22	1.21	1.21
1315.00	1.21	1.21	1.21	1.21	1.21
1320.00	1.21	1.21	1.21	1.21	1.21
1325.00	1.21	1.21	1.20	1.20	1.20
1330.00	1.20	1.20	1.20	1.20	1.20
1335.00	1.20	1.20	1.20	1.20	1.20
1340.00	1.20	1.19	1.19	1.19	1.19
1345.00	1.19	1.19	1.19	1.19	1.19
1350.00	1.19	1.19	1.19	1.19	1.19
1355.00	1.18	1.18	1.18	1.18	1.18
1360.00	1.18	1.18	1.18	1.18	1.18

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1365.00	1.18	1.18	1.18	1.18	1.17
1370.00	1.17	1.17	1.17	1.17	1.17
1375.00	1.17	1.17	1.17	1.17	1.17
1380.00	1.17	1.17	1.17	1.16	1.16
1385.00	1.16	1.16	1.16	1.16	1.16
1390.00	1.16	1.16	1.16	1.16	1.16
1395.00	1.16	1.15	1.15	1.15	1.15
1400.00	1.15	1.15	1.15	1.15	1.15
1405.00	1.15	1.15	1.15	1.15	1.15
1410.00	1.14	1.14	1.14	1.14	1.14
1415.00	1.14	1.14	1.14	1.14	1.14
1420.00	1.14	1.14	1.14	1.14	1.13
1425.00	1.13	1.13	1.13	1.13	1.13
1430.00	1.13	1.13	1.13	1.13	1.13
1435.00	1.13	1.13	1.12	1.12	1.12
1440.00	1.12	1.11	1.10	1.09	1.06
1445.00	1.02	.97	.92	.86	.80
1450.00	.73	.68	.62	.57	.52
1455.00	.48	.45	.41	.38	.35
1460.00	.32	.29	.27	.25	.23
1465.00	.21	.19	.17	.16	.14
1470.00	.13	.12	.11	.10	.09

1475.00		.08	.08	.07	.07	.06
1480.00		.05	.05	.05	.04	.04
1485.00		.04	.03	.03	.03	.03
1490.00		.02	.02	.02	.02	.02
1495.00		.02	.01	.01	.01	.01
1500.00		.01	.01	.01	.01	.01
1505.00		.01	.01	.01	.00	.00
1510.00		.00	.00	.00	.00	.00
1515.00		.00	.00	.00	.00	.00
1520.00		.00	.00	.00	.00	.00

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

SUMMARY FOR HYDROGRAPH ADDITION
at Node: MAIN DET IN

HYG Directory: F:\PJJ HM AsBuilt\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ADDLINK 20	HIGHLAND MEADOWS		HIGHLAND MEADOWS	10 yr
ADDLINK 10	OFFSITE DET		OFFSITE DET	10 yr
ADDLINK 40	OFFSITE NON-DET		OFFSITE NON-DET	10 yr

INFLOWS TO: MAIN DET IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	HIGHLAND MEADOWS	10 yr	5.794	721.00	85.69
	OFFSITE DET	10 yr	5.334	732.00	54.51
	OFFSITE NON-DET	10 yr	1.144	721.00	18.06

TOTAL FLOW INTO: MAIN DET IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	MAIN DET	IN 10 yr	12.273	723.00	144.86

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

TOTAL NODE INFLOW...

HYG file =

HYG ID = MAIN DET IN

HYG Tag = 10 yr

Peak Discharge = 144.86 cfs

Time to Peak = 723.00 min

HYG Volume = 12.273 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min	-----				
357.00	.00	.00	.00	.00	.00
362.00	.01	.01	.01	.01	.01
367.00	.02	.02	.02	.02	.03
372.00	.03	.03	.04	.04	.04
377.00	.04	.05	.05	.05	.06
382.00	.06	.06	.07	.07	.07
387.00	.07	.08	.08	.08	.09
392.00	.09	.09	.10	.10	.10
397.00	.11	.11	.11	.12	.12
402.00	.12	.13	.13	.13	.14
407.00	.14	.14	.15	.15	.15
412.00	.16	.16	.16	.17	.17
417.00	.17	.18	.18	.18	.19
422.00	.19	.19	.20	.20	.20
427.00	.21	.21	.21	.22	.22
432.00	.23	.23	.23	.24	.24
437.00	.24	.25	.25	.25	.26
442.00	.26	.26	.27	.27	.28
447.00	.28	.28	.29	.29	.29
452.00	.30	.30	.30	.31	.31
457.00	.32	.32	.32	.33	.33
462.00	.33	.34	.34	.35	.35
467.00	.35	.36	.36	.37	.37
472.00	.37	.38	.38	.38	.39
477.00	.39	.40	.40	.40	.41
482.00	.41	.42	.42	.42	.43
487.00	.43	.44	.44	.45	.45
492.00	.46	.47	.47	.48	.48
497.00	.49	.50	.51	.52	.52

502.00		.53	.54	.55	.56	.57
507.00		.58	.59	.60	.61	.62

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
512.00	.63	.64	.65	.67	.68
517.00	.69	.70	.72	.73	.74
522.00	.76	.77	.78	.80	.81
527.00	.83	.84	.86	.87	.89
532.00	.90	.92	.94	.95	.97
537.00	.99	1.00	1.02	1.04	1.05
542.00	1.07	1.09	1.11	1.12	1.14
547.00	1.16	1.17	1.19	1.20	1.22
552.00	1.24	1.25	1.27	1.28	1.30
557.00	1.31	1.32	1.34	1.35	1.36
562.00	1.38	1.39	1.41	1.42	1.43
567.00	1.45	1.46	1.47	1.48	1.50
572.00	1.51	1.52	1.54	1.55	1.57
577.00	1.58	1.60	1.62	1.64	1.65
582.00	1.67	1.69	1.72	1.74	1.76
587.00	1.78	1.81	1.83	1.86	1.88
592.00	1.91	1.94	1.96	1.99	2.02
597.00	2.05	2.07	2.10	2.13	2.16
602.00	2.19	2.22	2.25	2.29	2.32
607.00	2.35	2.38	2.42	2.46	2.49
612.00	2.53	2.57	2.61	2.65	2.69
617.00	2.73	2.77	2.81	2.86	2.90
622.00	2.94	2.99	3.03	3.08	3.13
627.00	3.18	3.22	3.27	3.32	3.37
632.00	3.42	3.47	3.52	3.58	3.63
637.00	3.69	3.75	3.81	3.87	3.93
642.00	4.00	4.07	4.14	4.21	4.28
647.00	4.35	4.43	4.50	4.58	4.66
652.00	4.74	4.82	4.90	4.99	5.07
657.00	5.16	5.24	5.33	5.42	5.51
662.00	5.61	5.70	5.80	5.91	6.02
667.00	6.13	6.25	6.38	6.51	6.65
672.00	6.79	6.94	7.10	7.26	7.42
677.00	7.60	7.78	7.96	8.14	8.33
682.00	8.53	8.73	8.93	9.14	9.35

687.00	9.56	9.78	10.01	10.28	10.56
692.00	10.94	11.40	12.05	12.75	13.70
697.00	14.84	16.24	17.78	19.63	21.90
702.00	24.41	27.20	30.17	33.79	37.61
707.00	41.83	46.18	51.76	57.53	64.04
712.00	71.09	79.71	88.75	98.09	107.06
717.00	116.23	124.14	131.47	136.67	141.34
722.00	143.51	144.86	144.10	141.38	137.19
727.00	132.49	127.34	120.86	114.48	108.80
732.00	103.37	97.77	92.47	88.21	84.21

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
737.00	80.10	76.19	72.66	69.34	66.01
742.00	62.89	59.86	56.99	54.34	51.84
747.00	49.36	46.97	45.00	43.09	41.21
752.00	39.37	37.86	36.38	34.93	33.50
757.00	32.32	31.16	30.05	28.95	28.04
762.00	27.15	26.28	25.44	24.76	24.09
767.00	23.43	22.78	22.24	21.71	21.19
772.00	20.67	20.24	19.81	19.39	18.97
777.00	18.61	18.26	17.91	17.56	17.26
782.00	16.96	16.66	16.37	16.11	15.85
787.00	15.60	15.35	15.13	14.92	14.71
792.00	14.50	14.31	14.13	13.95	13.77
797.00	13.61	13.45	13.29	13.13	12.99
802.00	12.84	12.70	12.56	12.42	12.29
807.00	12.16	12.02	11.90	11.78	11.66
812.00	11.54	11.43	11.33	11.22	11.11
817.00	11.01	10.91	10.82	10.72	10.63
822.00	10.54	10.45	10.37	10.28	10.20
827.00	10.12	10.03	9.95	9.88	9.80
832.00	9.72	9.64	9.57	9.49	9.41
837.00	9.34	9.27	9.19	9.12	9.05
842.00	8.98	8.91	8.84	8.77	8.71
847.00	8.64	8.58	8.52	8.47	8.41
852.00	8.36	8.31	8.26	8.21	8.17
857.00	8.13	8.09	8.05	8.01	7.97
862.00	7.94	7.90	7.86	7.83	7.80
867.00	7.77	7.73	7.70	7.68	7.65

872.00	7.62	7.59	7.56	7.53	7.51
877.00	7.48	7.45	7.43	7.40	7.37
882.00	7.35	7.32	7.30	7.27	7.25
887.00	7.22	7.20	7.17	7.15	7.12
892.00	7.10	7.07	7.05	7.02	7.00
897.00	6.97	6.95	6.92	6.90	6.87
902.00	6.85	6.83	6.80	6.78	6.75
907.00	6.73	6.70	6.68	6.66	6.63
912.00	6.61	6.58	6.56	6.53	6.51
917.00	6.49	6.46	6.44	6.41	6.39
922.00	6.36	6.34	6.32	6.29	6.27
927.00	6.24	6.22	6.19	6.17	6.14
932.00	6.12	6.10	6.07	6.05	6.02
937.00	6.00	5.97	5.95	5.92	5.90
942.00	5.88	5.85	5.83	5.80	5.78
947.00	5.75	5.73	5.70	5.68	5.65
952.00	5.63	5.60	5.58	5.56	5.53
957.00	5.51	5.48	5.46	5.43	5.41

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Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
962.00	5.38	5.36	5.34	5.31	5.29
967.00	5.27	5.25	5.23	5.21	5.19
972.00	5.17	5.15	5.14	5.12	5.10
977.00	5.09	5.07	5.06	5.05	5.03
982.00	5.02	5.01	5.00	4.98	4.97
987.00	4.96	4.95	4.94	4.93	4.92
992.00	4.91	4.90	4.89	4.88	4.87
997.00	4.86	4.85	4.84	4.83	4.82
1002.00	4.81	4.80	4.79	4.78	4.77
1007.00	4.76	4.76	4.75	4.74	4.73
1012.00	4.72	4.71	4.70	4.69	4.68
1017.00	4.67	4.67	4.66	4.65	4.64
1022.00	4.63	4.62	4.61	4.60	4.59
1027.00	4.59	4.58	4.57	4.56	4.55
1032.00	4.54	4.53	4.52	4.52	4.51
1037.00	4.50	4.49	4.48	4.47	4.46
1042.00	4.46	4.45	4.44	4.43	4.42
1047.00	4.41	4.40	4.39	4.38	4.38
1052.00	4.37	4.36	4.35	4.34	4.33

1057.00	4.32	4.31	4.31	4.30	4.29
1062.00	4.28	4.27	4.26	4.25	4.25
1067.00	4.24	4.23	4.22	4.21	4.20
1072.00	4.19	4.18	4.17	4.17	4.16
1077.00	4.15	4.14	4.13	4.12	4.11
1082.00	4.10	4.09	4.09	4.08	4.07
1087.00	4.06	4.05	4.04	4.03	4.02
1092.00	4.02	4.01	4.00	3.99	3.98
1097.00	3.97	3.96	3.95	3.94	3.94
1102.00	3.93	3.92	3.91	3.90	3.89
1107.00	3.88	3.87	3.86	3.85	3.85
1112.00	3.84	3.83	3.82	3.81	3.80
1117.00	3.79	3.78	3.77	3.77	3.76
1122.00	3.75	3.74	3.73	3.72	3.71
1127.00	3.70	3.69	3.69	3.68	3.67
1132.00	3.66	3.65	3.64	3.63	3.62
1137.00	3.61	3.61	3.60	3.59	3.58
1142.00	3.57	3.56	3.55	3.54	3.53
1147.00	3.52	3.51	3.51	3.50	3.49
1152.00	3.48	3.47	3.46	3.45	3.44
1157.00	3.43	3.42	3.42	3.41	3.40
1162.00	3.39	3.38	3.37	3.36	3.35
1167.00	3.34	3.33	3.33	3.32	3.31
1172.00	3.30	3.29	3.28	3.27	3.26
1177.00	3.25	3.24	3.23	3.23	3.22
1182.00	3.21	3.20	3.19	3.18	3.17

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1187.00	3.16	3.15	3.14	3.14	3.13
1192.00	3.12	3.11	3.10	3.09	3.08
1197.00	3.07	3.06	3.05	3.05	3.04
1202.00	3.03	3.02	3.01	3.00	2.99
1207.00	2.99	2.98	2.97	2.96	2.96
1212.00	2.95	2.95	2.94	2.93	2.93
1217.00	2.92	2.92	2.92	2.91	2.91
1222.00	2.91	2.90	2.90	2.89	2.89
1227.00	2.89	2.89	2.88	2.88	2.88
1232.00	2.88	2.87	2.87	2.87	2.87
1237.00	2.86	2.86	2.86	2.86	2.85

1242.00	2.85	2.85	2.85	2.85	2.85
1247.00	2.84	2.84	2.84	2.84	2.84
1252.00	2.83	2.83	2.83	2.83	2.83
1257.00	2.82	2.82	2.82	2.82	2.82
1262.00	2.82	2.81	2.81	2.81	2.81
1267.00	2.81	2.81	2.80	2.80	2.80
1272.00	2.80	2.80	2.79	2.79	2.79
1277.00	2.79	2.79	2.79	2.78	2.78
1282.00	2.78	2.78	2.78	2.78	2.77
1287.00	2.77	2.77	2.77	2.77	2.77
1292.00	2.76	2.76	2.76	2.76	2.76
1297.00	2.75	2.75	2.75	2.75	2.75
1302.00	2.75	2.74	2.74	2.74	2.74
1307.00	2.74	2.74	2.73	2.73	2.73
1312.00	2.73	2.73	2.73	2.72	2.72
1317.00	2.72	2.72	2.72	2.72	2.71
1322.00	2.71	2.71	2.71	2.71	2.70
1327.00	2.70	2.70	2.70	2.70	2.70
1332.00	2.69	2.69	2.69	2.69	2.69
1337.00	2.69	2.68	2.68	2.68	2.68
1342.00	2.68	2.68	2.67	2.67	2.67
1347.00	2.67	2.67	2.66	2.66	2.66
1352.00	2.66	2.66	2.66	2.65	2.65
1357.00	2.65	2.65	2.65	2.64	2.64
1362.00	2.64	2.64	2.64	2.64	2.64
1367.00	2.63	2.63	2.63	2.63	2.63
1372.00	2.62	2.62	2.62	2.62	2.62
1377.00	2.62	2.61	2.61	2.61	2.61
1382.00	2.61	2.60	2.60	2.60	2.60
1387.00	2.60	2.60	2.59	2.59	2.59
1392.00	2.59	2.59	2.59	2.58	2.58
1397.00	2.58	2.58	2.58	2.58	2.57
1402.00	2.57	2.57	2.57	2.57	2.56
1407.00	2.56	2.56	2.56	2.56	2.56

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1412.00	2.55	2.55	2.55	2.55	2.55
1417.00	2.55	2.54	2.54	2.54	2.54
1422.00	2.54	2.53	2.53	2.53	2.53

1427.00	2.53	2.53	2.52	2.52	2.52
1432.00	2.52	2.52	2.52	2.51	2.51
1437.00	2.51	2.51	2.51	2.50	2.49
1442.00	2.47	2.42	2.37	2.28	2.17
1447.00	2.05	1.93	1.79	1.66	1.53
1452.00	1.42	1.30	1.20	1.10	1.02
1457.00	.94	.87	.80	.74	.68
1462.00	.63	.58	.52	.48	.44
1467.00	.40	.36	.33	.31	.28
1472.00	.25	.23	.22	.20	.18
1477.00	.17	.15	.14	.13	.12
1482.00	.11	.10	.09	.08	.08
1487.00	.07	.07	.06	.06	.05
1492.00	.05	.04	.04	.04	.03
1497.00	.03	.03	.03	.02	.02
1502.00	.02	.02	.02	.02	.01
1507.00	.01	.01	.01	.01	.01
1512.00	.01	.01	.01	.01	.01
1517.00	.00	.00	.00	.00	.00
1522.00	.00	.00	.00	.00	.00
1527.00	.00	.00	.00		

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

SUMMARY FOR HYDROGRAPH ADDITION at Node: MAIN DET IN

HYG Directory: F:\PJJ HM AsBuilt\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ADDLINK 20	HIGHLAND MEADOWS		HIGHLAND MEADOWS	100 yr
ADDLINK 10	OFFSITE DET		OFFSITE DET	100 yr
ADDLINK 40	OFFSITE NON-DET		OFFSITE NON-DET	100 yr

INFLOWS TO: MAIN DET IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
	HIGHLAND MEADOWS	100 yr	11.017	721.00	158.96
	OFFSITE DET	100 yr	11.021	732.00	112.38

OFFSITE NON-DET 100 yr 2.365 720.00 36.75

TOTAL FLOW INTO: MAIN DET IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time min	Peak Flow cfs
-----	-----	-----	-----	-----	-----
	MAIN DET	IN 100 yr	24.403	723.00	282.70

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

TOTAL NODE INFLOW...

HYG file =

HYG ID = MAIN DET IN

HYG Tag = 100 yr

Peak Discharge = 282.70 cfs

Time to Peak = 723.00 min

HYG Volume = 24.403 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min	-----				
243.00	.00	.00	.00	.00	.00
248.00	.01	.01	.01	.01	.02
253.00	.02	.03	.03	.03	.04
258.00	.04	.05	.05	.06	.06
263.00	.07	.07	.08	.08	.09
268.00	.09	.10	.10	.11	.11
273.00	.12	.12	.13	.13	.14
278.00	.14	.15	.15	.16	.16
283.00	.17	.17	.18	.19	.19
288.00	.20	.20	.21	.21	.22
293.00	.22	.23	.24	.24	.25
298.00	.25	.26	.26	.27	.27
303.00	.28	.29	.29	.30	.30
308.00	.31	.32	.32	.33	.33
313.00	.34	.34	.35	.36	.36
318.00	.37	.37	.38	.39	.39
323.00	.40	.40	.41	.42	.42
328.00	.43	.44	.44	.45	.45

333.00	.46	.47	.47	.48	.49
338.00	.49	.50	.50	.51	.52
343.00	.52	.53	.54	.54	.55
348.00	.56	.56	.57	.57	.58
353.00	.59	.59	.60	.61	.62
358.00	.63	.63	.64	.65	.66
363.00	.67	.68	.69	.70	.71
368.00	.72	.73	.74	.75	.76
373.00	.77	.78	.80	.81	.82
378.00	.83	.84	.86	.87	.88
383.00	.90	.91	.92	.94	.95
388.00	.96	.98	.99	1.00	1.02
393.00	1.03	1.04	1.06	1.07	1.09

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
398.00	1.10	1.11	1.13	1.14	1.16
403.00	1.17	1.19	1.20	1.21	1.23
408.00	1.24	1.26	1.27	1.29	1.30
413.00	1.32	1.33	1.35	1.36	1.38
418.00	1.39	1.41	1.42	1.44	1.45
423.00	1.47	1.48	1.50	1.51	1.53
428.00	1.54	1.56	1.57	1.59	1.60
433.00	1.62	1.63	1.65	1.66	1.68
438.00	1.69	1.71	1.73	1.74	1.76
443.00	1.77	1.79	1.80	1.82	1.84
448.00	1.85	1.87	1.88	1.90	1.91
453.00	1.93	1.95	1.96	1.98	1.99
458.00	2.01	2.03	2.04	2.06	2.07
463.00	2.09	2.11	2.12	2.14	2.16
468.00	2.17	2.19	2.20	2.22	2.24
473.00	2.25	2.27	2.29	2.30	2.32
478.00	2.34	2.35	2.37	2.39	2.40
483.00	2.42	2.44	2.46	2.48	2.50
488.00	2.52	2.54	2.56	2.58	2.61
493.00	2.63	2.66	2.69	2.71	2.74
498.00	2.77	2.80	2.83	2.86	2.89
503.00	2.93	2.96	2.99	3.03	3.06
508.00	3.09	3.13	3.16	3.20	3.23
513.00	3.27	3.31	3.34	3.38	3.42

518.00	3.46	3.49	3.53	3.57	3.61
523.00	3.65	3.69	3.73	3.77	3.81
528.00	3.85	3.89	3.93	3.97	4.01
533.00	4.05	4.10	4.14	4.18	4.23
538.00	4.27	4.31	4.36	4.40	4.44
543.00	4.49	4.53	4.57	4.61	4.65
548.00	4.69	4.73	4.77	4.81	4.84
553.00	4.87	4.91	4.94	4.97	5.00
558.00	5.03	5.06	5.09	5.11	5.14
563.00	5.16	5.19	5.22	5.24	5.26
568.00	5.29	5.31	5.34	5.36	5.38
573.00	5.41	5.44	5.46	5.49	5.52
578.00	5.56	5.59	5.63	5.67	5.71
583.00	5.75	5.80	5.85	5.90	5.95
588.00	6.01	6.06	6.12	6.18	6.24
593.00	6.30	6.36	6.43	6.49	6.56
598.00	6.62	6.69	6.76	6.83	6.90
603.00	6.97	7.04	7.12	7.19	7.27
608.00	7.35	7.43	7.51	7.60	7.69
613.00	7.78	7.87	7.96	8.06	8.16
618.00	8.25	8.35	8.45	8.55	8.66

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
623.00	8.76	8.87	8.97	9.08	9.19
628.00	9.30	9.41	9.52	9.64	9.75
633.00	9.87	9.99	10.11	10.23	10.37
638.00	10.50	10.63	10.77	10.92	11.07
643.00	11.22	11.37	11.53	11.69	11.86
648.00	12.02	12.20	12.37	12.55	12.72
653.00	12.90	13.09	13.27	13.46	13.65
658.00	13.84	14.03	14.22	14.43	14.63
663.00	14.84	15.06	15.29	15.54	15.78
668.00	16.04	16.31	16.61	16.90	17.22
673.00	17.55	17.89	18.24	18.60	18.98
678.00	19.36	19.75	20.14	20.56	20.98
683.00	21.40	21.83	22.28	22.73	23.18
688.00	23.64	24.14	24.70	25.31	26.12
693.00	27.12	28.50	30.01	32.04	34.50
698.00	37.51	40.78	44.69	49.50	54.79

703.00	60.58	66.71	74.16	81.96	90.49
708.00	99.23	110.28	121.66	134.30	147.91
713.00	164.38	181.52	199.06	215.77	232.64
718.00	247.03	260.26	269.45	277.43	280.81
723.00	282.70	280.79	275.05	266.76	257.60
728.00	247.75	235.24	222.97	212.09	201.68
733.00	190.83	180.55	172.19	164.32	156.19
738.00	148.45	141.40	134.75	128.14	121.91
743.00	115.86	110.12	104.86	99.88	94.94
748.00	90.18	86.30	82.51	78.79	75.14
753.00	72.17	69.25	66.40	63.59	61.27
758.00	58.99	56.81	54.65	52.87	51.11
763.00	49.41	47.75	46.41	45.10	43.81
768.00	42.53	41.48	40.44	39.41	38.40
773.00	37.56	36.73	35.90	35.08	34.40
778.00	33.72	33.04	32.36	31.78	31.20
783.00	30.63	30.06	29.57	29.08	28.60
788.00	28.12	27.71	27.30	26.89	26.49
793.00	26.13	25.79	25.44	25.10	24.80
798.00	24.49	24.19	23.89	23.62	23.35
803.00	23.08	22.81	22.55	22.30	22.06
808.00	21.81	21.58	21.36	21.13	20.91
813.00	20.71	20.51	20.31	20.11	19.93
818.00	19.75	19.57	19.40	19.23	19.06
823.00	18.90	18.74	18.58	18.43	18.28
828.00	18.12	17.98	17.83	17.69	17.54
833.00	17.40	17.26	17.12	16.98	16.85
838.00	16.71	16.58	16.44	16.31	16.18
843.00	16.05	15.92	15.80	15.68	15.57

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
848.00	15.45	15.35	15.25	15.14	15.05
853.00	14.95	14.87	14.78	14.70	14.62
858.00	14.54	14.47	14.40	14.33	14.27
863.00	14.20	14.14	14.07	14.01	13.95
868.00	13.89	13.84	13.78	13.73	13.68
873.00	13.63	13.58	13.52	13.47	13.42
878.00	13.37	13.32	13.27	13.23	13.18
883.00	13.13	13.09	13.04	12.99	12.95

888.00	12.90	12.85	12.81	12.76	12.71
893.00	12.67	12.62	12.58	12.53	12.49
898.00	12.45	12.40	12.36	12.31	12.26
903.00	12.22	12.18	12.13	12.09	12.04
908.00	12.00	11.96	11.91	11.87	11.82
913.00	11.78	11.73	11.69	11.64	11.60
918.00	11.55	11.51	11.47	11.42	11.38
923.00	11.33	11.29	11.24	11.20	11.15
928.00	11.11	11.07	11.02	10.98	10.93
933.00	10.89	10.85	10.80	10.76	10.71
938.00	10.67	10.62	10.58	10.53	10.49
943.00	10.45	10.40	10.36	10.31	10.27
948.00	10.22	10.18	10.13	10.09	10.04
953.00	10.00	9.96	9.91	9.87	9.82
958.00	9.78	9.73	9.69	9.65	9.60
963.00	9.56	9.51	9.47	9.43	9.39
968.00	9.35	9.32	9.28	9.25	9.21
973.00	9.18	9.15	9.12	9.09	9.06
978.00	9.04	9.01	8.99	8.96	8.94
983.00	8.92	8.89	8.87	8.85	8.83
988.00	8.81	8.79	8.77	8.75	8.73
993.00	8.72	8.70	8.68	8.66	8.64
998.00	8.62	8.61	8.59	8.57	8.55
1003.00	8.54	8.52	8.51	8.49	8.47
1008.00	8.46	8.44	8.42	8.41	8.39
1013.00	8.37	8.36	8.34	8.32	8.31
1018.00	8.29	8.28	8.26	8.24	8.23
1023.00	8.21	8.19	8.18	8.16	8.15
1028.00	8.13	8.12	8.10	8.08	8.07
1033.00	8.05	8.04	8.02	8.00	7.99
1038.00	7.97	7.96	7.94	7.93	7.91
1043.00	7.89	7.88	7.86	7.84	7.83
1048.00	7.81	7.80	7.78	7.77	7.75
1053.00	7.73	7.72	7.70	7.69	7.67
1058.00	7.65	7.64	7.62	7.61	7.59
1063.00	7.57	7.56	7.54	7.53	7.51
1068.00	7.50	7.48	7.46	7.45	7.43

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time Output Time increment = 1.00 min
min Time on left represents time for first value in each row.

1073.00	7.41	7.40	7.38	7.37	7.35
1078.00	7.34	7.32	7.30	7.29	7.27
1083.00	7.26	7.24	7.22	7.21	7.19
1088.00	7.18	7.16	7.15	7.13	7.11
1093.00	7.10	7.08	7.06	7.05	7.03
1098.00	7.02	7.00	6.98	6.97	6.95
1103.00	6.94	6.92	6.90	6.89	6.87
1108.00	6.86	6.84	6.82	6.81	6.79
1113.00	6.78	6.76	6.75	6.73	6.71
1118.00	6.70	6.68	6.66	6.65	6.63
1123.00	6.62	6.60	6.58	6.57	6.55
1128.00	6.54	6.52	6.50	6.49	6.47
1133.00	6.45	6.44	6.42	6.41	6.39
1138.00	6.38	6.36	6.34	6.33	6.31
1143.00	6.29	6.28	6.26	6.25	6.23
1148.00	6.21	6.20	6.18	6.17	6.15
1153.00	6.13	6.12	6.10	6.08	6.07
1158.00	6.05	6.04	6.02	6.01	5.99
1163.00	5.97	5.96	5.94	5.92	5.91
1168.00	5.89	5.88	5.86	5.84	5.83
1173.00	5.81	5.80	5.78	5.76	5.75
1178.00	5.73	5.71	5.70	5.68	5.67
1183.00	5.65	5.63	5.62	5.60	5.59
1188.00	5.57	5.55	5.54	5.52	5.50
1193.00	5.49	5.47	5.46	5.44	5.42
1198.00	5.41	5.39	5.38	5.36	5.34
1203.00	5.33	5.31	5.30	5.28	5.27
1208.00	5.26	5.24	5.23	5.22	5.21
1213.00	5.20	5.19	5.18	5.17	5.16
1218.00	5.15	5.15	5.14	5.13	5.13
1223.00	5.12	5.11	5.11	5.10	5.09
1228.00	5.09	5.08	5.08	5.07	5.07
1233.00	5.07	5.06	5.06	5.05	5.05
1238.00	5.04	5.04	5.04	5.03	5.03
1243.00	5.03	5.02	5.02	5.02	5.01
1248.00	5.01	5.00	5.00	5.00	4.99
1253.00	4.99	4.99	4.98	4.98	4.98
1258.00	4.97	4.97	4.97	4.96	4.96
1263.00	4.96	4.95	4.95	4.95	4.94
1268.00	4.94	4.94	4.94	4.93	4.93
1273.00	4.93	4.92	4.92	4.92	4.91
1278.00	4.91	4.91	4.90	4.90	4.90
1283.00	4.89	4.89	4.89	4.88	4.88
1288.00	4.88	4.87	4.87	4.87	4.87
1293.00	4.86	4.86	4.86	4.85	4.85

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... MAIN DET IN

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1298.00	4.85	4.84	4.84	4.84	4.83
1303.00	4.83	4.83	4.82	4.82	4.82
1308.00	4.82	4.81	4.81	4.80	4.80
1313.00	4.80	4.80	4.79	4.79	4.79
1318.00	4.78	4.78	4.78	4.77	4.77
1323.00	4.77	4.76	4.76	4.76	4.75
1328.00	4.75	4.75	4.75	4.74	4.74
1333.00	4.74	4.73	4.73	4.73	4.72
1338.00	4.72	4.72	4.71	4.71	4.71
1343.00	4.70	4.70	4.70	4.69	4.69
1348.00	4.69	4.68	4.68	4.68	4.68
1353.00	4.67	4.67	4.67	4.66	4.66
1358.00	4.66	4.65	4.65	4.65	4.64
1363.00	4.64	4.64	4.63	4.63	4.63
1368.00	4.63	4.62	4.62	4.61	4.61
1373.00	4.61	4.61	4.60	4.60	4.60
1378.00	4.59	4.59	4.59	4.58	4.58
1383.00	4.58	4.57	4.57	4.57	4.56
1388.00	4.56	4.56	4.56	4.55	4.55
1393.00	4.55	4.54	4.54	4.54	4.53
1398.00	4.53	4.53	4.52	4.52	4.52
1403.00	4.51	4.51	4.51	4.50	4.50
1408.00	4.50	4.49	4.49	4.49	4.49
1413.00	4.48	4.48	4.48	4.47	4.47
1418.00	4.47	4.46	4.46	4.46	4.45
1423.00	4.45	4.45	4.44	4.44	4.44
1428.00	4.43	4.43	4.43	4.42	4.42
1433.00	4.42	4.41	4.41	4.41	4.41
1438.00	4.40	4.40	4.39	4.37	4.33
1443.00	4.26	4.16	4.00	3.82	3.61
1448.00	3.40	3.16	2.93	2.70	2.51
1453.00	2.30	2.13	1.96	1.82	1.68
1458.00	1.55	1.43	1.32	1.22	1.12
1463.00	1.03	.94	.86	.79	.72
1468.00	.65	.60	.55	.50	.45
1473.00	.42	.39	.35	.32	.30
1478.00	.27	.25	.23	.21	.20
1483.00	.18	.16	.15	.14	.13
1488.00	.12	.11	.10	.09	.08
1493.00	.08	.07	.07	.06	.06
1498.00	.05	.05	.04	.04	.04
1503.00	.03	.03	.03	.03	.02

1508.00		.02	.02	.02	.02	.01
1513.00		.01	.01	.01	.01	.01
1518.00		.01	.01	.01	.01	.00

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Node: Pond Inflow Summary Page 13.24
Name.... MAIN DET IN Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)
Output Time increment = 1.00 min
Time on left represents time for first value in each row.

Time min					
1523.00		.00	.00	.00	.00
1528.00		.00	.00	.00	.00

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time: Date:



Type.... Pond Routing Summary Page 13.25
Name.... MAIN DET OUT Tag: 2 Event: 2 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

LEVEL POOL ROUTING SUMMARY

HYG Dir = F:\PJJ HM AsBuilt\
Inflow HYG file = NONE STORED - MAIN DET IN 2
Outflow HYG file = NONE STORED - MAIN DET OUT 2

Pond Node Data = MAIN DET
Pond Volume Data = MAIN DET
Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

Starting WS Elev = 949.00 ft
Starting Volume = .000 ac-ft
Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = 1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

```

=====
Peak Inflow      =      51.87 cfs      at      723.00 min
Peak Outflow     =      27.22 cfs      at      738.00 min
-----
Peak Elevation   =      953.59 ft
Peak Storage     =      1.282 ac-ft
=====

```

MASS BALANCE (ac-ft)

```

-----
+ Initial Vol   =      .000
+ HYG Vol IN    =      4.458
- Infiltration  =      .000
- HYG Vol OUT   =      4.178
- Retained Vol  =      .279
-----
Unrouted Vol =      -.001 ac-ft (.012% of Inflow Volume)

```

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)
Name.... MAIN DET OUT Tag: 2
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 2

Page 13.26
Event: 2 yr

```

POND ROUTED TOTAL OUTFLOW HYG...
HYG file =
HYG ID   = MAIN DET      OUT
HYG Tag  =      2
-----
Peak Discharge =      27.22 cfs
Time to Peak   =      738.00 min
HYG Volume     =      4.178 ac-ft
-----

```

HYDROGRAPH ORDINATES (cfs)						
Time	Output Time increment = 1.00 min					
min	Time on left represents time for first value in each row.					

535.00	.00	.00	.00	.00	.00	.00
540.00	.00	.00	.00	.00	.00	.01
545.00	.01	.01	.01	.01	.01	.01
550.00	.01	.02	.02	.02	.02	.02
555.00	.03	.03	.03	.03	.03	.04
560.00	.04	.04	.04	.05	.05	.05

565.00	.05	.05	.05	.05	.05
570.00	.05	.05	.05	.05	.05
575.00	.06	.06	.06	.06	.06
580.00	.06	.06	.06	.06	.06
585.00	.06	.06	.07	.07	.07
590.00	.07	.07	.07	.07	.07
595.00	.08	.08	.08	.08	.08
600.00	.08	.08	.08	.08	.08
605.00	.08	.08	.08	.08	.09
610.00	.09	.09	.09	.09	.09
615.00	.09	.09	.09	.09	.09
620.00	.10	.10	.10	.10	.10
625.00	.10	.10	.10	.10	.10
630.00	.10	.10	.10	.10	.10
635.00	.11	.11	.11	.11	.11
640.00	.11	.11	.11	.11	.11
645.00	.11	.11	.12	.12	.12
650.00	.12	.12	.12	.12	.13
655.00	.13	.13	.13	.13	.13
660.00	.14	.14	.14	.14	.14
665.00	.15	.15	.15	.15	.15
670.00	.15	.15	.16	.16	.16
675.00	.16	.16	.16	.16	.16
680.00	.17	.17	.17	.17	.17
685.00	.17	.18	.18	.18	.18

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
690.00	.18	.18	.18	.19	.19
695.00	.19	.19	.19	.20	.20
700.00	.20	.20	.20	.21	.21
705.00	.22	.23	.24	.25	.26
710.00	.26	.27	.28	.29	.30
715.00	.31	.32	.35	.39	.41
720.00	.44	.45	.47	4.42	8.22
725.00	11.54	14.51	17.07	19.25	21.11
730.00	22.66	23.94	24.94	25.71	26.29
735.00	26.71	26.99	27.16	27.22	27.19
740.00	27.08	26.89	26.65	26.35	25.99
745.00	25.60	25.18	24.72	24.24	23.71

750.00	23.18	22.64	22.09	21.53	20.98
755.00	20.43	19.89	19.35	18.82	18.30
760.00	17.79	17.29	16.81	16.33	15.87
765.00	15.41	14.96	14.53	14.11	13.70
770.00	13.32	12.95	12.59	12.25	11.92
775.00	11.61	11.31	11.02	10.74	10.47
780.00	10.22	9.98	9.74	9.52	9.30
785.00	9.09	8.90	8.71	8.52	8.35
790.00	8.18	8.02	7.86	7.71	7.57
795.00	7.43	7.30	7.17	7.04	6.92
800.00	6.80	6.69	6.58	6.47	6.37
805.00	6.28	6.19	6.10	6.01	5.93
810.00	5.85	5.77	5.70	5.62	5.55
815.00	5.49	5.42	5.36	5.29	5.23
820.00	5.18	5.12	5.06	5.01	4.96
825.00	4.91	4.86	4.81	4.77	4.72
830.00	4.68	4.63	4.59	4.55	4.51
835.00	4.47	4.43	4.39	4.35	4.32
840.00	4.28	4.24	4.21	4.17	4.14
845.00	4.10	4.07	4.04	4.01	3.98
850.00	3.94	3.91	3.89	3.86	3.83
855.00	3.80	3.77	3.75	3.72	3.70
860.00	3.68	3.65	3.63	3.61	3.59
865.00	3.57	3.55	3.53	3.51	3.49
870.00	3.47	3.46	3.44	3.42	3.41
875.00	3.39	3.38	3.36	3.35	3.34
880.00	3.32	3.31	3.29	3.28	3.27
885.00	3.26	3.24	3.23	3.22	3.21
890.00	3.20	3.18	3.17	3.16	3.15
895.00	3.14	3.13	3.12	3.11	3.09
900.00	3.08	3.07	3.06	3.05	3.04
905.00	3.03	3.02	3.01	3.00	2.99
910.00	2.98	2.97	2.96	2.95	2.94

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
915.00	2.93	2.92	2.91	2.90	2.89
920.00	2.88	2.87	2.86	2.85	2.84
925.00	2.83	2.82	2.81	2.80	2.79
930.00	2.78	2.77	2.76	2.75	2.74

935.00	2.73	2.72	2.71	2.70	2.69
940.00	2.68	2.67	2.66	2.65	2.64
945.00	2.62	2.61	2.60	2.59	2.58
950.00	2.57	2.56	2.55	2.54	2.53
955.00	2.52	2.51	2.50	2.49	2.48
960.00	2.47	2.46	2.45	2.44	2.43
965.00	2.42	2.41	2.40	2.39	2.38
970.00	2.37	2.36	2.35	2.34	2.33
975.00	2.32	2.31	2.31	2.30	2.29
980.00	2.28	2.27	2.27	2.26	2.25
985.00	2.25	2.24	2.23	2.23	2.22
990.00	2.21	2.21	2.20	2.20	2.19
995.00	2.18	2.18	2.17	2.17	2.16
1000.00	2.16	2.15	2.15	2.14	2.14
1005.00	2.13	2.13	2.13	2.12	2.12
1010.00	2.11	2.11	2.10	2.10	2.10
1015.00	2.09	2.09	2.08	2.08	2.08
1020.00	2.07	2.07	2.06	2.06	2.06
1025.00	2.05	2.05	2.05	2.04	2.04
1030.00	2.03	2.03	2.03	2.02	2.02
1035.00	2.02	2.01	2.01	2.00	2.00
1040.00	2.00	1.99	1.99	1.99	1.98
1045.00	1.98	1.98	1.97	1.97	1.96
1050.00	1.96	1.96	1.95	1.95	1.95
1055.00	1.94	1.94	1.94	1.93	1.93
1060.00	1.92	1.92	1.92	1.91	1.91
1065.00	1.91	1.90	1.90	1.90	1.89
1070.00	1.89	1.88	1.88	1.88	1.87
1075.00	1.87	1.87	1.86	1.86	1.85
1080.00	1.85	1.85	1.84	1.84	1.84
1085.00	1.83	1.83	1.82	1.82	1.82
1090.00	1.81	1.81	1.81	1.80	1.80
1095.00	1.80	1.79	1.79	1.78	1.78
1100.00	1.78	1.77	1.77	1.77	1.76
1105.00	1.76	1.75	1.75	1.75	1.74
1110.00	1.74	1.74	1.73	1.73	1.72
1115.00	1.72	1.72	1.71	1.71	1.71
1120.00	1.70	1.70	1.69	1.69	1.69
1125.00	1.68	1.68	1.67	1.67	1.67
1130.00	1.66	1.66	1.66	1.65	1.65
1135.00	1.64	1.64	1.64	1.63	1.63

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1140.00	1.63	1.62	1.62	1.61	1.61
1145.00	1.61	1.60	1.60	1.59	1.59
1150.00	1.59	1.58	1.58	1.58	1.57
1155.00	1.57	1.56	1.56	1.56	1.55
1160.00	1.55	1.54	1.54	1.54	1.53
1165.00	1.53	1.53	1.52	1.52	1.51
1170.00	1.51	1.51	1.50	1.50	1.49
1175.00	1.49	1.49	1.48	1.48	1.48
1180.00	1.47	1.47	1.46	1.46	1.46
1185.00	1.45	1.45	1.44	1.44	1.44
1190.00	1.43	1.43	1.42	1.42	1.42
1195.00	1.41	1.41	1.40	1.40	1.40
1200.00	1.39	1.39	1.39	1.38	1.38
1205.00	1.37	1.37	1.37	1.36	1.36
1210.00	1.35	1.35	1.35	1.34	1.34
1215.00	1.34	1.33	1.33	1.33	1.33
1220.00	1.32	1.32	1.32	1.31	1.31
1225.00	1.31	1.31	1.31	1.30	1.30
1230.00	1.30	1.30	1.30	1.29	1.29
1235.00	1.29	1.29	1.29	1.29	1.29
1240.00	1.28	1.28	1.28	1.28	1.28
1245.00	1.28	1.28	1.28	1.27	1.27
1250.00	1.27	1.27	1.27	1.27	1.27
1255.00	1.27	1.27	1.27	1.26	1.26
1260.00	1.26	1.26	1.26	1.26	1.26
1265.00	1.26	1.26	1.26	1.26	1.26
1270.00	1.25	1.25	1.25	1.25	1.25
1275.00	1.25	1.25	1.25	1.25	1.25
1280.00	1.25	1.25	1.25	1.24	1.24
1285.00	1.24	1.24	1.24	1.24	1.24
1290.00	1.24	1.24	1.24	1.24	1.24
1295.00	1.24	1.24	1.23	1.23	1.23
1300.00	1.23	1.23	1.23	1.23	1.23
1305.00	1.23	1.23	1.23	1.23	1.23
1310.00	1.23	1.22	1.22	1.22	1.22
1315.00	1.22	1.22	1.22	1.22	1.22
1320.00	1.22	1.22	1.22	1.22	1.22
1325.00	1.21	1.21	1.21	1.21	1.21
1330.00	1.21	1.21	1.21	1.21	1.21
1335.00	1.21	1.21	1.21	1.21	1.20
1340.00	1.20	1.20	1.20	1.20	1.20
1345.00	1.20	1.20	1.20	1.20	1.20
1350.00	1.20	1.20	1.20	1.19	1.19
1355.00	1.19	1.19	1.19	1.19	1.19
1360.00	1.19	1.19	1.19	1.19	1.19

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1365.00	1.19	1.19	1.18	1.18	1.18
1370.00	1.18	1.18	1.18	1.18	1.18
1375.00	1.18	1.18	1.18	1.18	1.18
1380.00	1.18	1.17	1.17	1.17	1.17
1385.00	1.17	1.17	1.17	1.17	1.17
1390.00	1.17	1.17	1.17	1.17	1.17
1395.00	1.16	1.16	1.16	1.16	1.16
1400.00	1.16	1.16	1.16	1.16	1.16
1405.00	1.16	1.16	1.16	1.15	1.15
1410.00	1.15	1.15	1.15	1.15	1.15
1415.00	1.15	1.15	1.15	1.15	1.15
1420.00	1.15	1.15	1.14	1.14	1.14
1425.00	1.14	1.14	1.14	1.14	1.14
1430.00	1.14	1.14	1.14	1.14	1.14
1435.00	1.13	1.13	1.13	1.13	1.13
1440.00	1.13	1.13	1.13	1.13	1.12
1445.00	1.11	1.11	1.09	1.08	1.06
1450.00	1.03	1.00	.98	.95	.91
1455.00	.88	.85	.81	.78	.74
1460.00	.71	.68	.65	.61	.58
1465.00	.55	.53	.50	.47	.47
1470.00	.47	.47	.47	.47	.47
1475.00	.47	.47	.47	.47	.47
1480.00	.47	.47	.47	.47	.47
1485.00	.47	.47	.47	.47	.47
1490.00	.47	.47	.47	.47	.47
1495.00	.47	.47	.47	.47	.47
1500.00	.47	.47	.47	.47	.47
1505.00	.47	.47	.47	.47	.47
1510.00	.47	.47	.47	.47	.47
1515.00	.47	.47	.47	.47	.47
1520.00	.47	.47	.47	.47	.47
1525.00	.47	.47	.47	.46	.46
1530.00	.46	.46	.46	.46	.46
1535.00	.46	.46	.46	.46	.46
1540.00	.46	.46	.46	.46	.46
1545.00	.46	.46	.46	.46	.46
1550.00	.46	.46	.46	.46	.46

1555.00		.46	.46	.46	.46	.46
1560.00		.46	.46	.46	.46	.46
1565.00		.46	.46	.46	.46	.46
1570.00		.46	.46	.46	.46	.46
1575.00		.46	.46	.46	.46	.46
1580.00		.46	.46	.45	.45	.45
1585.00		.45	.45	.45	.45	.45

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					

1590.00		.45	.45	.45	.45
1595.00		.45	.45	.45	.45
1600.00		.45	.45	.45	.45
1605.00		.45	.45	.45	.45
1610.00		.45	.45	.45	.45
1615.00		.45	.45	.45	.45
1620.00		.45	.45	.45	.45
1625.00		.45	.45	.45	.45
1630.00		.45	.45	.45	.45
1635.00		.45	.45	.45	.44
1640.00		.44	.44	.44	.44
1645.00		.44	.44	.44	.44
1650.00		.44	.44	.44	.44
1655.00		.44	.44	.44	.44
1660.00		.44	.44	.44	.44
1665.00		.44	.44	.44	.44
1670.00		.44	.44	.44	.44
1675.00		.44	.44	.44	.44
1680.00		.44	.44	.44	.44
1685.00		.44	.44	.44	.44
1690.00		.44	.44	.44	.44
1695.00		.44	.43	.43	.43
1700.00		.43	.43	.43	.43
1705.00		.43	.43	.43	.43
1710.00		.43	.43	.43	.43
1715.00		.43	.43	.43	.43
1720.00		.43	.43	.43	.43
1725.00		.43	.43	.43	.43
1730.00		.43	.43	.43	.43
1735.00		.43	.43	.43	.43

1740.00	.43	.43	.43	.43	.42
1745.00	.42	.42	.42	.42	.42
1750.00	.42	.42	.42	.42	.42
1755.00	.42	.42	.42	.42	.42
1760.00	.42	.42	.42	.42	.42
1765.00	.42	.42	.42	.42	.42
1770.00	.42	.42	.42	.42	.42
1775.00	.42	.42	.42	.42	.42
1780.00	.42	.42	.42	.42	.42
1785.00	.42	.42	.42	.42	.41
1790.00	.41	.41	.41	.41	.41
1795.00	.41	.41	.41	.41	.41
1800.00	.41	.41	.41	.41	.41
1805.00	.41	.41	.41	.41	.41
1810.00	.41	.41	.41	.41	.41

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1815.00	.41	.41	.41	.41	.41
1820.00	.41	.41	.41	.41	.41
1825.00	.41	.41	.41	.41	.41
1830.00	.41	.41	.41	.41	.41
1835.00	.40	.40	.40	.40	.40
1840.00	.40	.40	.40	.40	.40
1845.00	.40	.40	.40	.40	.40
1850.00	.40	.40	.40	.40	.40
1855.00	.40	.40	.40	.40	.40
1860.00	.40	.40	.40	.40	.40
1865.00	.40	.40	.40	.40	.40
1870.00	.40	.40	.40	.40	.40
1875.00	.40	.40	.40	.40	.40
1880.00	.40	.40	.39	.39	.39
1885.00	.39	.39	.39	.39	.39
1890.00	.39	.39	.39	.39	.39
1895.00	.39	.39	.39	.39	.39
1900.00	.39	.39	.39	.39	.39
1905.00	.39	.39	.39	.39	.39
1910.00	.39	.39	.39	.39	.39
1915.00	.39	.39	.39	.39	.39
1920.00	.39	.39	.39	.39	.39

1925.00	.38	.38	.38	.38	.38
1930.00	.38	.38	.38	.38	.38
1935.00	.38	.38	.38	.38	.38
1940.00	.38	.38	.38	.38	.38
1945.00	.38	.38	.38	.38	.38
1950.00	.38	.38	.38	.38	.37
1955.00	.37	.37	.37	.37	.37
1960.00	.37	.37	.37	.37	.37
1965.00	.37	.37	.37	.37	.37
1970.00	.37	.37	.37	.37	.37
1975.00	.37	.37	.37	.37	.37
1980.00	.37	.37	.37	.36	.36
1985.00	.36	.36	.36	.36	.36
1990.00	.36	.36	.36	.36	.36
1995.00	.36	.36	.36	.36	.36
2000.00	.36	.36	.36	.36	.36
2005.00	.36	.36	.36	.36	.36
2010.00	.36	.36	.36	.36	.35
2015.00	.35	.35	.35	.35	.35
2020.00	.35	.35	.35	.35	.35
2025.00	.35	.35	.35	.35	.35
2030.00	.35	.35	.35	.35	.35
2035.00	.35	.35	.35	.35	.35

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
2040.00	.35	.35	.35	.35	.35
2045.00	.34	.34	.34	.34	.34
2050.00	.34	.34	.34	.34	.34
2055.00	.34	.34	.34	.34	.34
2060.00	.34	.34	.34	.34	.34
2065.00	.34	.34	.34	.34	.34
2070.00	.34	.34	.34	.34	.34
2075.00	.34	.34	.33	.33	.33
2080.00	.33	.33	.33	.33	.33
2085.00	.33	.33	.33	.33	.33
2090.00	.33	.33	.33	.33	.33
2095.00	.33	.33	.33	.33	.33
2100.00	.33	.33	.33	.33	.33
2105.00	.33	.33	.33	.33	.32

2110.00	.32	.32	.32	.32	.32
2115.00	.32	.32	.32	.32	.32
2120.00	.32	.32	.32	.32	.32
2125.00	.32	.32	.32	.32	.32
2130.00	.32	.32	.32	.32	.32
2135.00	.32	.32	.32	.32	.32
2140.00	.32	.32	.32	.32	.32
2145.00	.32	.32	.32	.32	.32
2150.00	.32	.32	.32	.32	.32
2155.00	.32	.32	.32	.32	.32
2160.00	.32	.32	.31	.31	.31
2165.00	.31	.31	.31	.31	.31
2170.00	.31	.31	.31	.31	.31
2175.00	.31	.31	.31	.31	.31
2180.00	.31	.31	.31	.31	.31
2185.00	.31	.31	.31	.31	.31
2190.00	.31	.31	.31	.31	.31
2195.00	.31	.31	.31	.31	.31
2200.00	.31	.31	.31	.31	.31
2205.00	.31	.31	.31	.31	.31
2210.00	.31	.31	.31	.31	.31
2215.00	.31	.31	.31	.31	.31
2220.00	.31	.31	.31	.31	.31
2225.00	.31	.31	.31	.31	.31
2230.00	.31	.31	.31	.31	.31
2235.00	.31	.31	.31	.31	.31
2240.00	.31	.31	.31	.31	.31
2245.00	.31	.31	.31	.31	.31
2250.00	.31	.31	.31	.31	.31
2255.00	.31	.31	.31	.31	.31
2260.00	.31	.31	.31	.31	.31

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
2265.00	.31	.31	.31	.31	.31
2270.00	.31	.30	.30	.30	.30
2275.00	.30	.30	.30	.30	.30
2280.00	.30	.30	.30	.30	.30
2285.00	.30	.30	.30	.30	.30
2290.00	.30	.30	.30	.30	.30

2295.00		.30	.30	.30	.30	.30
2300.00		.30	.30	.30	.30	.30
2305.00		.30	.30	.30	.30	.30
2310.00		.30	.30	.30	.30	.30
2315.00		.30	.30	.30	.30	.30
2320.00		.30	.30	.30	.30	.30
2325.00		.30	.30	.30	.30	.30
2330.00		.30	.30	.30	.30	.30
2335.00		.30	.30	.30	.30	.30
2340.00		.30	.30	.30	.30	.30
2345.00		.30	.30	.30	.30	.30
2350.00		.30	.30	.30	.30	.30
2355.00		.30	.30	.30	.30	.30
2360.00		.30	.30	.30	.30	.30
2365.00		.30	.30	.30	.30	.30
2370.00		.30	.30	.30	.30	.30
2375.01		.30	.30	.29	.29	.29
2380.00		.29	.29	.29	.29	.29
2385.00		.29	.29	.29	.29	.29
2390.01		.29	.29	.29	.29	.29
2395.00		.29	.29	.29	.29	.29
2400.00		.29	.29	.29	.29	.29
2405.01		.29	.29	.29	.29	.29
2410.00		.29	.29	.29	.29	.29
2415.01		.29	.29	.29	.29	.29
2420.01		.29	.29	.29	.29	.29
2425.00		.29	.29	.29	.29	.29
2430.01		.29	.29	.29	.29	.29
2435.01		.29	.29	.29	.29	.29
2440.00		.29	.29	.29	.29	.29
2445.01		.29	.29	.29	.29	.29
2450.01		.29	.29	.29	.29	.29
2455.01		.29	.29	.29	.29	.29
2460.01		.29	.29	.29	.29	.29
2465.01		.29	.29	.29	.29	.28
2470.01		.28	.28	.28	.28	.28
2475.01		.28	.28	.28	.28	.28
2480.01		.28	.28	.28	.28	.28
2485.01		.28	.28	.28	.28	.28

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 2

Event: 2 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time | Output Time increment = 1.00 min

min	Time on left represents time for first value in each row.				
2490.01	.28	.28	.28	.28	.28
2495.01	.28	.28	.28	.28	.28
2500.01	.28	.28	.28	.28	.28
2505.01	.28	.28	.28	.28	.28
2510.01	.28	.28	.28	.28	.28
2515.01	.28	.28	.28	.28	.28
2520.01	.28	.28	.28	.28	.28
2525.01	.28	.28	.28	.28	.28
2530.01	.28	.28	.28	.28	.28
2535.01	.28				

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routing Summary

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir = F:\PJJ HM AsBuilt\

Inflow HYG file = NONE STORED - MAIN DET IN 10 yr

Outflow HYG file = NONE STORED - MAIN DET OUT 10 yr

Pond Node Data = MAIN DET

Pond Volume Data = MAIN DET

Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

```
-----
Starting WS Elev   =   949.00 ft
Starting Volume    =     .000 ac-ft
Starting Outflow    =     .00 cfs
Starting Infiltr.   =     .00 cfs
Starting Total Qout=     .00 cfs
Time Increment     =     1.00 min
```

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

```
=====
Peak Inflow        =   144.86 cfs      at   723.00 min
Peak Outflow        =    95.97 cfs      at   733.00 min
-----
```

```
Peak Elevation     =   955.61 ft
Peak Storage        =    2.792 ac-ft
```

=====

MASS BALANCE (ac-ft)

+ Initial Vol = .000
+ HYG Vol IN = 12.273
- Infiltration = .000
- HYG Vol OUT = 11.918
- Retained Vol = .355

Unrouted Vol = -.000 ac-ft (.002% of Inflow Volume)

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)
Name.... MAIN DET OUT Tag: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

Page 13.37
Event: 10 yr

POND ROUTED TOTAL OUTFLOW HYG...

HYG file =

HYG ID = MAIN DET OUT

HYG Tag = 10 yr

Peak Discharge = 95.97 cfs
Time to Peak = 733.00 min
HYG Volume = 11.918 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
357.00	.00	.00	.00	.00	.00
362.00	.00	.00	.00	.00	.01
367.00	.01	.01	.01	.01	.01
372.00	.02	.02	.02	.02	.03
377.00	.03	.03	.03	.04	.04
382.00	.04	.05	.05	.05	.05
387.00	.05	.05	.05	.05	.05
392.00	.05	.05	.06	.06	.06
397.00	.06	.06	.06	.06	.06
402.00	.06	.06	.06	.07	.07
407.00	.07	.07	.07	.07	.07
412.00	.07	.08	.08	.08	.08

417.00	.08	.08	.08	.08	.08
422.00	.08	.08	.08	.08	.08
427.00	.08	.09	.09	.09	.09
432.00	.09	.09	.09	.09	.09
437.00	.09	.09	.09	.09	.09
442.00	.10	.10	.10	.10	.10
447.00	.10	.10	.10	.10	.10
452.00	.10	.10	.10	.10	.10
457.00	.10	.10	.10	.10	.10
462.00	.11	.11	.11	.11	.11
467.00	.11	.11	.11	.11	.11
472.00	.11	.11	.11	.11	.11
477.00	.11	.11	.12	.12	.12
482.00	.12	.12	.12	.12	.12
487.00	.12	.12	.12	.12	.13
492.00	.13	.13	.13	.13	.13
497.00	.13	.13	.13	.14	.14
502.00	.14	.14	.14	.14	.14
507.00	.14	.15	.15	.15	.15

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
512.00	.15	.15	.15	.15	.15
517.00	.15	.15	.16	.16	.16
522.00	.16	.16	.16	.16	.16
527.00	.16	.16	.16	.16	.17
532.00	.17	.17	.17	.17	.17
537.00	.17	.17	.17	.17	.18
542.00	.18	.18	.18	.18	.18
547.00	.18	.18	.18	.18	.18
552.00	.18	.18	.18	.19	.19
557.00	.19	.19	.19	.19	.19
562.00	.19	.19	.19	.19	.20
567.00	.20	.20	.20	.20	.20
572.00	.20	.20	.20	.20	.20
577.00	.20	.20	.20	.20	.21
582.00	.21	.21	.21	.21	.21
587.00	.21	.21	.21	.21	.21
592.00	.22	.22	.22	.22	.22
597.00	.22	.23	.23	.23	.23

602.00	.23	.23	.24	.24	.24
607.00	.24	.24	.25	.25	.25
612.00	.25	.25	.25	.25	.26
617.00	.26	.26	.26	.26	.26
622.00	.26	.26	.27	.27	.27
627.00	.27	.27	.27	.28	.28
632.00	.28	.28	.28	.28	.28
637.00	.28	.29	.29	.29	.29
642.00	.29	.29	.29	.29	.30
647.00	.30	.30	.30	.30	.30
652.00	.30	.31	.31	.31	.31
657.00	.31	.31	.31	.32	.32
662.00	.32	.33	.33	.34	.34
667.00	.35	.35	.36	.36	.37
672.00	.37	.38	.39	.39	.39
677.00	.40	.40	.41	.41	.41
682.00	.42	.42	.43	.43	.43
687.00	.44	.44	.45	.45	.45
692.00	.46	.46	.47	.47	.65
697.00	1.76	2.88	4.03	5.22	6.49
702.00	7.81	9.19	10.69	12.32	14.12
707.00	16.07	18.11	20.36	22.87	25.58
712.00	28.50	31.77	35.30	39.16	43.30
717.00	47.68	52.25	56.95	61.65	66.33
722.00	70.82	75.14	79.12	82.76	85.94
727.00	88.67	90.98	92.81	94.16	95.11
732.00	95.71	95.97	95.93	95.62	95.11

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
737.00	94.41	93.52	92.48	91.29	89.97
742.00	88.55	87.03	85.44	83.77	82.02
747.00	80.22	78.38	76.52	74.64	72.73
752.00	70.82	68.93	67.05	65.16	63.29
757.00	61.45	59.65	57.88	56.12	54.40
762.00	52.73	51.11	49.53	47.97	46.46
767.00	45.01	43.61	42.26	40.95	39.65
772.00	38.41	37.21	36.07	34.98	33.93
777.00	32.92	31.92	30.95	30.03	29.15
782.00	28.32	27.51	26.75	26.02	25.32

787.00	24.65	24.00	23.36	22.75	22.17
792.00	21.62	21.09	20.59	20.11	19.65
797.00	19.22	18.80	18.40	18.02	17.66
802.00	17.31	16.98	16.66	16.36	16.07
807.00	15.78	15.50	15.23	14.97	14.72
812.00	14.48	14.25	14.03	13.82	13.62
817.00	13.42	13.23	13.05	12.87	12.71
822.00	12.54	12.39	12.23	12.09	11.95
827.00	11.81	11.68	11.55	11.42	11.30
832.00	11.18	11.07	10.95	10.84	10.74
837.00	10.63	10.53	10.43	10.33	10.24
842.00	10.14	10.05	9.96	9.87	9.78
847.00	9.70	9.62	9.53	9.45	9.38
852.00	9.30	9.23	9.15	9.08	9.01
857.00	8.95	8.88	8.82	8.76	8.70
862.00	8.64	8.59	8.53	8.48	8.43
867.00	8.38	8.33	8.28	8.24	8.19
872.00	8.15	8.11	8.07	8.03	7.99
877.00	7.95	7.91	7.88	7.84	7.81
882.00	7.77	7.74	7.71	7.67	7.64
887.00	7.61	7.58	7.55	7.52	7.49
892.00	7.46	7.43	7.40	7.37	7.35
897.00	7.32	7.29	7.26	7.23	7.21
902.00	7.18	7.15	7.12	7.10	7.07
907.00	7.04	7.02	6.99	6.96	6.94
912.00	6.91	6.89	6.86	6.83	6.81
917.00	6.78	6.76	6.73	6.71	6.68
922.00	6.66	6.63	6.61	6.58	6.56
927.00	6.53	6.51	6.48	6.46	6.44
932.00	6.41	6.39	6.36	6.34	6.31
937.00	6.29	6.26	6.24	6.21	6.19
942.00	6.17	6.14	6.12	6.09	6.07
947.00	6.04	6.02	5.99	5.97	5.94
952.00	5.92	5.90	5.87	5.85	5.82
957.00	5.80	5.77	5.75	5.72	5.70

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
962.00	5.67	5.65	5.62	5.60	5.58
967.00	5.55	5.53	5.50	5.48	5.46

972.00	5.44	5.41	5.39	5.37	5.35
977.00	5.33	5.31	5.29	5.27	5.25
982.00	5.23	5.21	5.20	5.18	5.16
987.00	5.15	5.13	5.12	5.10	5.09
992.00	5.07	5.06	5.05	5.03	5.02
997.00	5.01	4.99	4.98	4.97	4.96
1002.00	4.95	4.93	4.92	4.91	4.90
1007.00	4.89	4.88	4.87	4.86	4.85
1012.00	4.84	4.83	4.82	4.81	4.80
1017.00	4.79	4.78	4.77	4.76	4.75
1022.00	4.74	4.73	4.72	4.71	4.70
1027.00	4.69	4.69	4.68	4.67	4.66
1032.00	4.65	4.64	4.63	4.62	4.61
1037.00	4.60	4.60	4.59	4.58	4.57
1042.00	4.56	4.55	4.54	4.53	4.52
1047.00	4.52	4.51	4.50	4.49	4.48
1052.00	4.47	4.46	4.45	4.45	4.44
1057.00	4.43	4.42	4.41	4.40	4.39
1062.00	4.38	4.37	4.37	4.36	4.35
1067.00	4.34	4.33	4.32	4.31	4.30
1072.00	4.30	4.29	4.28	4.27	4.26
1077.00	4.25	4.24	4.23	4.23	4.22
1082.00	4.21	4.20	4.19	4.18	4.17
1087.00	4.16	4.15	4.15	4.14	4.13
1092.00	4.12	4.11	4.10	4.09	4.08
1097.00	4.08	4.07	4.06	4.05	4.04
1102.00	4.03	4.02	4.01	4.00	4.00
1107.00	3.99	3.98	3.97	3.96	3.95
1112.00	3.94	3.93	3.92	3.92	3.91
1117.00	3.90	3.89	3.88	3.87	3.86
1122.00	3.85	3.84	3.84	3.83	3.82
1127.00	3.81	3.80	3.79	3.78	3.77
1132.00	3.76	3.75	3.75	3.74	3.73
1137.00	3.72	3.71	3.70	3.69	3.68
1142.00	3.67	3.67	3.66	3.65	3.64
1147.00	3.63	3.62	3.61	3.60	3.59
1152.00	3.58	3.58	3.57	3.56	3.55
1157.00	3.54	3.53	3.52	3.51	3.50
1162.00	3.49	3.49	3.48	3.47	3.46
1167.00	3.45	3.44	3.43	3.42	3.41
1172.00	3.40	3.40	3.39	3.38	3.37
1177.00	3.36	3.35	3.34	3.33	3.32
1182.00	3.31	3.31	3.30	3.29	3.28

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1187.00	3.27	3.26	3.25	3.24	3.23
1192.00	3.22	3.22	3.21	3.20	3.19
1197.00	3.18	3.17	3.16	3.15	3.14
1202.00	3.13	3.12	3.12	3.11	3.10
1207.00	3.09	3.08	3.07	3.06	3.05
1212.00	3.05	3.04	3.03	3.02	3.02
1217.00	3.01	3.00	2.99	2.99	2.98
1222.00	2.98	2.97	2.96	2.96	2.95
1227.00	2.95	2.94	2.94	2.93	2.93
1232.00	2.93	2.92	2.92	2.91	2.91
1237.00	2.91	2.90	2.90	2.90	2.89
1242.00	2.89	2.89	2.88	2.88	2.88
1247.00	2.87	2.87	2.87	2.87	2.86
1252.00	2.86	2.86	2.86	2.86	2.85
1257.00	2.85	2.85	2.85	2.84	2.84
1262.00	2.84	2.84	2.84	2.83	2.83
1267.00	2.83	2.83	2.83	2.82	2.82
1272.00	2.82	2.82	2.82	2.81	2.81
1277.00	2.81	2.81	2.81	2.81	2.80
1282.00	2.80	2.80	2.80	2.80	2.79
1287.00	2.79	2.79	2.79	2.79	2.79
1292.00	2.78	2.78	2.78	2.78	2.78
1297.00	2.78	2.77	2.77	2.77	2.77
1302.00	2.77	2.76	2.76	2.76	2.76
1307.00	2.76	2.76	2.75	2.75	2.75
1312.00	2.75	2.75	2.75	2.74	2.74
1317.00	2.74	2.74	2.74	2.74	2.73
1322.00	2.73	2.73	2.73	2.73	2.73
1327.00	2.72	2.72	2.72	2.72	2.72
1332.00	2.71	2.71	2.71	2.71	2.71
1337.00	2.71	2.70	2.70	2.70	2.70
1342.00	2.70	2.70	2.69	2.69	2.69
1347.00	2.69	2.69	2.69	2.68	2.68
1352.00	2.68	2.68	2.68	2.67	2.67
1357.00	2.67	2.67	2.67	2.67	2.66
1362.00	2.66	2.66	2.66	2.66	2.66
1367.00	2.65	2.65	2.65	2.65	2.65
1372.00	2.64	2.64	2.64	2.64	2.64
1377.00	2.64	2.63	2.63	2.63	2.63
1382.00	2.63	2.63	2.62	2.62	2.62
1387.00	2.62	2.62	2.62	2.61	2.61
1392.00	2.61	2.61	2.61	2.60	2.60
1397.00	2.60	2.60	2.60	2.60	2.59
1402.00	2.59	2.59	2.59	2.59	2.59

1407.00 | 2.58 2.58 2.58 2.58 2.58

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
1412.00	2.57	2.57	2.57	2.57	2.57
1417.00	2.57	2.56	2.56	2.56	2.56
1422.00	2.56	2.56	2.55	2.55	2.55
1427.00	2.55	2.55	2.54	2.54	2.54
1432.00	2.54	2.54	2.54	2.53	2.53
1437.00	2.53	2.53	2.53	2.53	2.52
1442.00	2.52	2.51	2.50	2.49	2.47
1447.00	2.44	2.40	2.36	2.31	2.25
1452.00	2.19	2.12	2.05	1.98	1.90
1457.00	1.83	1.75	1.68	1.60	1.53
1462.00	1.46	1.39	1.32	1.26	1.19
1467.00	1.13	1.07	1.01	.95	.90
1472.00	.85	.80	.75	.71	.67
1477.00	.63	.59	.55	.52	.49
1482.00	.47	.47	.47	.47	.47
1487.00	.47	.47	.47	.47	.47
1492.00	.47	.47	.47	.47	.47
1497.00	.47	.47	.47	.47	.47
1502.00	.47	.47	.47	.47	.47
1507.00	.47	.47	.47	.47	.47
1512.00	.47	.47	.47	.47	.47
1517.00	.47	.47	.47	.47	.47
1522.00	.47	.47	.47	.47	.47
1527.00	.47	.47	.47	.47	.47
1532.00	.47	.47	.47	.47	.47
1537.00	.47	.47	.47	.46	.46
1542.00	.46	.46	.46	.46	.46
1547.00	.46	.46	.46	.46	.46
1552.00	.46	.46	.46	.46	.46
1557.00	.46	.46	.46	.46	.46
1562.00	.46	.46	.46	.46	.46
1567.00	.46	.46	.46	.46	.46
1572.00	.46	.46	.46	.46	.46
1577.00	.46	.46	.46	.46	.46
1582.00	.46	.46	.46	.46	.46
1587.00	.46	.46	.46	.46	.46

1592.00	.46	.46	.46	.45	.45
1597.00	.45	.45	.45	.45	.45
1602.00	.45	.45	.45	.45	.45
1607.00	.45	.45	.45	.45	.45
1612.00	.45	.45	.45	.45	.45
1617.00	.45	.45	.45	.45	.45
1622.00	.45	.45	.45	.45	.45
1627.00	.45	.45	.45	.45	.45
1632.00	.45	.45	.45	.45	.45

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out) Page 13.43
Name.... MAIN DET OUT Tag: 10 yr Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1637.00	.45	.45	.45	.45	.45
1642.00	.45	.45	.45	.45	.45
1647.00	.45	.45	.45	.45	.44
1652.00	.44	.44	.44	.44	.44
1657.00	.44	.44	.44	.44	.44
1662.00	.44	.44	.44	.44	.44
1667.00	.44	.44	.44	.44	.44
1672.00	.44	.44	.44	.44	.44
1677.00	.44	.44	.44	.44	.44
1682.00	.44	.44	.44	.44	.44
1687.00	.44	.44	.44	.44	.44
1692.00	.44	.44	.44	.44	.44
1697.00	.44	.44	.44	.44	.44
1702.00	.44	.44	.44	.44	.44
1707.00	.44	.43	.43	.43	.43
1712.00	.43	.43	.43	.43	.43
1717.00	.43	.43	.43	.43	.43
1722.00	.43	.43	.43	.43	.43
1727.00	.43	.43	.43	.43	.43
1732.00	.43	.43	.43	.43	.43
1737.00	.43	.43	.43	.43	.43
1742.00	.43	.43	.43	.43	.43
1747.00	.43	.43	.43	.43	.43
1752.00	.43	.43	.43	.43	.43
1757.00	.42	.42	.42	.42	.42
1762.00	.42	.42	.42	.42	.42
1767.00	.42	.42	.42	.42	.42
1772.00	.42	.42	.42	.42	.42

1777.00	.42	.42	.42	.42	.42
1782.00	.42	.42	.42	.42	.42
1787.00	.42	.42	.42	.42	.42
1792.00	.42	.42	.42	.42	.42
1797.00	.42	.42	.42	.42	.42
1802.00	.41	.41	.41	.41	.41
1807.00	.41	.41	.41	.41	.41
1812.00	.41	.41	.41	.41	.41
1817.00	.41	.41	.41	.41	.41
1822.00	.41	.41	.41	.41	.41
1827.00	.41	.41	.41	.41	.41
1832.00	.41	.41	.41	.41	.41
1837.00	.41	.41	.41	.41	.41
1842.00	.41	.41	.41	.41	.41
1847.00	.40	.40	.40	.40	.40
1852.00	.40	.40	.40	.40	.40
1857.00	.40	.40	.40	.40	.40

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 13.44

Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1862.00	.40	.40	.40	.40	.40
1867.00	.40	.40	.40	.40	.40
1872.00	.40	.40	.40	.40	.40
1877.00	.40	.40	.40	.40	.40
1882.00	.40	.40	.40	.40	.40
1887.00	.40	.40	.40	.40	.40
1892.00	.40	.40	.39	.39	.39
1897.00	.39	.39	.39	.39	.39
1902.00	.39	.39	.39	.39	.39
1907.00	.39	.39	.39	.39	.39
1912.00	.39	.39	.39	.39	.39
1917.00	.39	.39	.39	.39	.39
1922.00	.39	.39	.39	.39	.39
1927.00	.39	.39	.39	.39	.39
1932.00	.39	.39	.39	.39	.39
1937.00	.39	.38	.38	.38	.38
1942.00	.38	.38	.38	.38	.38
1947.00	.38	.38	.38	.38	.38
1952.00	.38	.38	.38	.38	.38
1957.00	.38	.38	.38	.38	.38

1962.00	.38	.38	.38	.38	.38
1967.00	.37	.37	.37	.37	.37
1972.00	.37	.37	.37	.37	.37
1977.00	.37	.37	.37	.37	.37
1982.00	.37	.37	.37	.37	.37
1987.00	.37	.37	.37	.37	.37
1992.00	.37	.37	.37	.37	.36
1997.00	.36	.36	.36	.36	.36
2002.00	.36	.36	.36	.36	.36
2007.00	.36	.36	.36	.36	.36
2012.00	.36	.36	.36	.36	.36
2017.00	.36	.36	.36	.36	.36
2022.00	.36	.36	.36	.36	.35
2027.00	.35	.35	.35	.35	.35
2032.00	.35	.35	.35	.35	.35
2037.00	.35	.35	.35	.35	.35
2042.00	.35	.35	.35	.35	.35
2047.00	.35	.35	.35	.35	.35
2052.00	.35	.35	.35	.35	.35
2057.00	.34	.34	.34	.34	.34
2062.00	.34	.34	.34	.34	.34
2067.00	.34	.34	.34	.34	.34
2072.00	.34	.34	.34	.34	.34
2077.00	.34	.34	.34	.34	.34
2082.00	.34	.34	.34	.34	.34

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out) Page 13.45
Name.... MAIN DET OUT Tag: 10 yr Event: 10 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
2087.00	.34	.34	.33	.33	.33
2092.00	.33	.33	.33	.33	.33
2097.00	.33	.33	.33	.33	.33
2102.00	.33	.33	.33	.33	.33
2107.00	.33	.33	.33	.33	.33
2112.00	.33	.33	.33	.33	.33
2117.00	.33	.33	.33	.33	.33
2122.00	.32	.32	.32	.32	.32
2127.00	.32	.32	.32	.32	.32
2132.00	.32	.32	.32	.32	.32
2137.00	.32	.32	.32	.32	.32
2142.00	.32	.32	.32	.32	.32

2147.00	.32	.32	.32	.32	.32
2152.00	.32	.32	.32	.32	.32
2157.00	.32	.32	.32	.32	.32
2162.00	.32	.32	.32	.32	.32
2167.00	.32	.32	.32	.32	.32
2172.00	.32	.32	.32	.31	.31
2177.00	.31	.31	.31	.31	.31
2182.00	.31	.31	.31	.31	.31
2187.00	.31	.31	.31	.31	.31
2192.00	.31	.31	.31	.31	.31
2197.00	.31	.31	.31	.31	.31
2202.00	.31	.31	.31	.31	.31
2207.00	.31	.31	.31	.31	.31
2212.00	.31	.31	.31	.31	.31
2217.00	.31	.31	.31	.31	.31
2222.00	.31	.31	.31	.31	.31
2227.00	.31	.31	.31	.31	.31
2232.00	.31	.31	.31	.31	.31
2237.00	.31	.31	.31	.31	.31
2242.00	.31	.31	.31	.31	.31
2247.00	.31	.31	.31	.31	.31
2252.00	.31	.31	.31	.31	.31
2257.00	.31	.31	.31	.31	.31
2262.00	.31	.31	.31	.31	.31
2267.00	.31	.31	.31	.31	.31
2272.00	.31	.31	.31	.31	.31
2277.00	.31	.31	.31	.31	.31
2282.00	.31	.31	.30	.30	.30
2287.00	.30	.30	.30	.30	.30
2292.00	.30	.30	.30	.30	.30
2297.00	.30	.30	.30	.30	.30
2302.00	.30	.30	.30	.30	.30
2307.00	.30	.30	.30	.30	.30

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 13.46

Name.... MAIN DET OUT Tag: 10 yr

Event: 10 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)					
Time	Output Time increment = 1.00 min				
min	Time on left represents time for first value in each row.				
-----	-----	-----	-----	-----	-----
2312.00	.30	.30	.30	.30	.30
2317.00	.30	.30	.30	.30	.30
2322.00	.30	.30	.30	.30	.30
2327.00	.30	.30	.30	.30	.30

2332.00		.30	.30	.30	.30	.30
2337.00		.30	.30	.30	.30	.30
2342.00		.30	.30	.30	.30	.30
2347.01		.30	.30	.30	.30	.30
2352.00		.30	.30	.30	.30	.30
2357.00		.30				

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routing Summary

Page 13.47

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

LEVEL POOL ROUTING SUMMARY

HYG Dir = F:\PJJ HM AsBuilt\

Inflow HYG file = NONE STORED - MAIN DET IN 100 yr

Outflow HYG file = NONE STORED - MAIN DET OUT 100 yr

Pond Node Data = MAIN DET

Pond Volume Data = MAIN DET

Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

Starting WS Elev = 949.00 ft
Starting Volume = .000 ac-ft
Starting Outflow = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout= .00 cfs
Time Increment = 1.00 min

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====
Peak Inflow = 282.70 cfs at 723.00 min
Peak Outflow = 194.83 cfs at 733.00 min

Peak Elevation = 957.79 ft
Peak Storage = 4.826 ac-ft
=====

MASS BALANCE (ac-ft)

+ Initial Vol = .000

```

+ HYG Vol IN      =      24.403
- Infiltration    =      .000
- HYG Vol OUT     =      23.996
- Retained Vol    =      .405
-----
Unrouted Vol =      -.002 ac-ft (.006% of Inflow Volume)

```

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out) Page 13.48
Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

POND ROUTED TOTAL OUTFLOW HYG...

HYG file =

HYG ID = MAIN DET OUT

HYG Tag = 100 yr

```

-----
Peak Discharge =      194.83 cfs
Time to Peak   =      733.00 min
HYG Volume     =      23.996 ac-ft
-----

```

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
243.00	.00	.00	.00	.00	.00
248.00	.00	.00	.00	.01	.01
253.00	.01	.01	.01	.02	.02
258.00	.02	.03	.03	.03	.04
263.00	.04	.05	.05	.05	.05
268.00	.05	.05	.05	.05	.06
273.00	.06	.06	.06	.06	.06
278.00	.06	.06	.07	.07	.07
283.00	.07	.07	.07	.08	.08
288.00	.08	.08	.08	.08	.08
293.00	.08	.08	.08	.08	.08
298.00	.09	.09	.09	.09	.09
303.00	.09	.09	.09	.09	.09
308.00	.09	.10	.10	.10	.10
313.00	.10	.10	.10	.10	.10
318.00	.10	.10	.10	.10	.10
323.00	.10	.11	.11	.11	.11
328.00	.11	.11	.11	.11	.11

333.00	.11	.11	.11	.11	.12
338.00	.12	.12	.12	.12	.12
343.00	.12	.12	.12	.13	.13
348.00	.13	.13	.13	.13	.13
353.00	.13	.14	.14	.14	.14
358.00	.14	.14	.14	.15	.15
363.00	.15	.15	.15	.15	.15
368.00	.15	.15	.16	.16	.16
373.00	.16	.16	.16	.16	.16
378.00	.16	.16	.16	.16	.17
383.00	.17	.17	.17	.17	.17
388.00	.17	.17	.17	.17	.17
393.00	.18	.18	.18	.18	.18

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 13.49

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
398.00	.18	.18	.18	.18	.18
403.00	.18	.18	.18	.18	.19
408.00	.19	.19	.19	.19	.19
413.00	.19	.19	.19	.19	.19
418.00	.19	.20	.20	.20	.20
423.00	.20	.20	.20	.20	.20
428.00	.20	.20	.20	.20	.20
433.00	.20	.21	.21	.21	.21
438.00	.21	.21	.21	.21	.21
443.00	.21	.21	.22	.22	.22
448.00	.22	.22	.22	.22	.23
453.00	.23	.23	.23	.23	.23
458.00	.24	.24	.24	.24	.24
463.00	.24	.25	.25	.25	.25
468.00	.25	.25	.25	.25	.26
473.00	.26	.26	.26	.26	.26
478.00	.26	.26	.26	.26	.27
483.00	.27	.27	.27	.27	.27
488.00	.27	.27	.27	.28	.28
493.00	.28	.28	.28	.28	.28
498.00	.28	.28	.28	.29	.29
503.00	.29	.29	.29	.29	.29
508.00	.29	.29	.29	.30	.30
513.00	.30	.30	.30	.30	.30

518.00	.30	.30	.30	.30	.31
523.00	.31	.31	.31	.31	.31
528.00	.31	.31	.31	.32	.32
533.00	.32	.32	.32	.33	.33
538.00	.33	.34	.34	.35	.35
543.00	.35	.36	.36	.36	.37
548.00	.37	.38	.38	.38	.39
553.00	.39	.39	.40	.40	.40
558.00	.40	.41	.41	.41	.41
563.00	.42	.42	.42	.42	.43
568.00	.43	.43	.43	.43	.44
573.00	.44	.44	.44	.44	.45
578.00	.45	.45	.45	.45	.46
583.00	.46	.46	.46	.47	.47
588.00	.47	.47	.47	.67	1.12
593.00	1.54	1.93	2.29	2.63	2.95
598.00	3.25	3.52	3.78	4.03	4.26
603.00	4.48	4.68	4.88	5.06	5.24
608.00	5.41	5.57	5.72	5.87	6.02
613.00	6.16	6.29	6.42	6.55	6.68
618.00	6.80	6.93	7.05	7.16	7.28

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out) Page 13.50
Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
623.00	7.39	7.50	7.61	7.72	7.83
628.00	7.94	8.04	8.15	8.26	8.37
633.00	8.48	8.59	8.71	8.82	8.93
638.00	9.05	9.16	9.28	9.40	9.52
643.00	9.65	9.77	9.90	10.03	10.17
648.00	10.30	10.44	10.58	10.73	10.87
653.00	11.02	11.17	11.33	11.48	11.64
658.00	11.80	11.97	12.13	12.30	12.47
663.00	12.65	12.82	13.00	13.19	13.38
668.00	13.57	13.77	13.98	14.19	14.41
673.00	14.64	14.88	15.12	15.38	15.64
678.00	15.90	16.17	16.45	16.73	17.03
683.00	17.33	17.64	17.97	18.30	18.64
688.00	18.99	19.34	19.72	20.10	20.51
693.00	20.96	21.46	22.03	22.69	23.46
698.00	24.37	25.40	26.61	28.03	29.71

703.00	31.66	33.84	36.27	39.05	42.15
708.00	45.52	49.32	53.48	58.11	63.14
713.00	68.71	74.85	81.47	88.56	96.03
718.00	104.41	115.87	126.97	137.56	147.45
723.00	154.59	160.28	164.98	170.57	176.40
728.00	182.73	187.60	191.04	193.40	194.68
733.00	194.83	193.96	192.29	190.28	187.79
738.00	184.85	181.54	177.93	174.57	171.45
743.00	168.14	165.47	163.16	160.73	158.20
748.00	155.04	151.81	148.11	143.40	138.75
753.00	134.09	129.50	125.04	120.54	116.18
758.00	111.96	107.77	103.74	100.66	98.02
763.00	95.42	92.87	90.33	87.84	85.42
768.00	83.05	80.69	78.42	76.21	74.04
773.00	71.92	69.87	67.90	65.97	64.08
778.00	62.26	60.51	58.83	57.18	55.58
783.00	54.05	52.57	51.16	49.80	48.46
788.00	47.17	45.94	44.76	43.63	42.54
793.00	41.50	40.48	39.49	38.55	37.64
798.00	36.78	35.95	35.16	34.40	33.68
803.00	32.98	32.29	31.62	30.98	30.37
808.00	29.78	29.22	28.68	28.16	27.66
813.00	27.19	26.73	26.29	25.86	25.46
818.00	25.07	24.69	24.33	23.96	23.61
823.00	23.27	22.95	22.63	22.33	22.04
828.00	21.76	21.49	21.23	20.97	20.73
833.00	20.49	20.26	20.04	19.82	19.61
838.00	19.40	19.20	19.00	18.81	18.62
843.00	18.44	18.26	18.08	17.91	17.75

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

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Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
848.00	17.58	17.42	17.27	17.12	16.97
853.00	16.83	16.69	16.55	16.42	16.29
858.00	16.16	16.04	15.93	15.81	15.70
863.00	15.58	15.48	15.37	15.27	15.17
868.00	15.07	14.98	14.89	14.80	14.72
873.00	14.64	14.56	14.48	14.41	14.33
878.00	14.26	14.19	14.12	14.05	13.99
883.00	13.93	13.86	13.80	13.74	13.68

888.00	13.62	13.57	13.51	13.45	13.40
893.00	13.34	13.29	13.24	13.19	13.13
898.00	13.08	13.03	12.98	12.93	12.88
903.00	12.83	12.79	12.74	12.69	12.64
908.00	12.59	12.55	12.50	12.45	12.41
913.00	12.36	12.31	12.27	12.22	12.17
918.00	12.13	12.08	12.04	11.99	11.95
923.00	11.90	11.86	11.81	11.77	11.72
928.00	11.67	11.63	11.58	11.54	11.50
933.00	11.45	11.41	11.36	11.32	11.27
938.00	11.23	11.18	11.14	11.09	11.05
943.00	11.00	10.96	10.92	10.87	10.83
948.00	10.78	10.74	10.69	10.65	10.60
953.00	10.56	10.51	10.47	10.42	10.38
958.00	10.34	10.29	10.25	10.20	10.16
963.00	10.11	10.07	10.03	9.98	9.94
968.00	9.89	9.85	9.81	9.77	9.73
973.00	9.68	9.64	9.61	9.57	9.53
978.00	9.49	9.46	9.42	9.39	9.35
983.00	9.32	9.29	9.26	9.23	9.20
988.00	9.17	9.14	9.11	9.09	9.06
993.00	9.03	9.01	8.98	8.96	8.94
998.00	8.91	8.89	8.87	8.85	8.82
1003.00	8.80	8.78	8.76	8.74	8.72
1008.00	8.70	8.68	8.66	8.64	8.62
1013.00	8.61	8.59	8.57	8.55	8.53
1018.00	8.51	8.50	8.48	8.46	8.44
1023.00	8.43	8.41	8.39	8.38	8.36
1028.00	8.34	8.33	8.31	8.29	8.28
1033.00	8.26	8.24	8.23	8.21	8.19
1038.00	8.18	8.16	8.14	8.13	8.11
1043.00	8.10	8.08	8.06	8.05	8.03
1048.00	8.01	8.00	7.98	7.97	7.95
1053.00	7.93	7.92	7.90	7.89	7.87
1058.00	7.85	7.84	7.82	7.81	7.79
1063.00	7.77	7.76	7.74	7.73	7.71
1068.00	7.70	7.68	7.66	7.65	7.63

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 13.52

Name.... MAIN DET OUT Tag: 100 yr

Event: 100 yr

File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time
min

Output Time increment = 1.00 min
Time on left represents time for first value in each row.

1073.00	7.62	7.60	7.58	7.57	7.55
1078.00	7.54	7.52	7.50	7.49	7.47
1083.00	7.46	7.44	7.42	7.41	7.39
1088.00	7.38	7.36	7.34	7.33	7.31
1093.00	7.30	7.28	7.26	7.25	7.23
1098.00	7.21	7.20	7.18	7.16	7.15
1103.00	7.13	7.11	7.10	7.08	7.06
1108.00	7.05	7.03	7.02	7.00	6.98
1113.00	6.97	6.95	6.94	6.92	6.90
1118.00	6.89	6.87	6.85	6.84	6.82
1123.00	6.81	6.79	6.77	6.76	6.74
1128.00	6.73	6.71	6.69	6.68	6.66
1133.00	6.65	6.63	6.61	6.60	6.58
1138.00	6.56	6.55	6.53	6.52	6.50
1143.00	6.48	6.47	6.45	6.44	6.42
1148.00	6.40	6.39	6.37	6.36	6.34
1153.00	6.32	6.31	6.29	6.28	6.26
1158.00	6.24	6.23	6.21	6.19	6.18
1163.00	6.16	6.15	6.13	6.11	6.10
1168.00	6.08	6.07	6.05	6.03	6.02
1173.00	6.00	5.99	5.97	5.95	5.94
1178.00	5.92	5.90	5.89	5.87	5.86
1183.00	5.84	5.82	5.81	5.79	5.78
1188.00	5.76	5.74	5.73	5.71	5.69
1193.00	5.68	5.66	5.65	5.63	5.61
1198.00	5.60	5.58	5.57	5.55	5.53
1203.00	5.52	5.50	5.49	5.47	5.45
1208.00	5.44	5.42	5.41	5.39	5.38
1213.00	5.36	5.35	5.34	5.32	5.31
1218.00	5.30	5.29	5.27	5.26	5.25
1223.00	5.24	5.23	5.22	5.21	5.20
1228.00	5.19	5.18	5.18	5.17	5.16
1233.00	5.15	5.15	5.14	5.13	5.13
1238.00	5.12	5.11	5.11	5.10	5.10
1243.00	5.09	5.08	5.08	5.07	5.07
1248.00	5.06	5.06	5.06	5.05	5.05
1253.00	5.04	5.04	5.03	5.03	5.02
1258.00	5.02	5.02	5.01	5.01	5.01
1263.00	5.00	5.00	4.99	4.99	4.99
1268.00	4.98	4.98	4.98	4.97	4.97
1273.00	4.97	4.96	4.96	4.96	4.95
1278.00	4.95	4.95	4.94	4.94	4.94
1283.00	4.93	4.93	4.93	4.92	4.92
1288.00	4.92	4.91	4.91	4.91	4.90
1293.00	4.90	4.90	4.89	4.89	4.89

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 13.53

Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1298.00	4.88	4.88	4.88	4.87	4.87
1303.00	4.87	4.86	4.86	4.86	4.86
1308.00	4.85	4.85	4.85	4.84	4.84
1313.00	4.84	4.83	4.83	4.83	4.82
1318.00	4.82	4.82	4.81	4.81	4.81
1323.00	4.80	4.80	4.80	4.80	4.79
1328.00	4.79	4.79	4.78	4.78	4.78
1333.00	4.77	4.77	4.77	4.76	4.76
1338.00	4.76	4.75	4.75	4.75	4.74
1343.00	4.74	4.74	4.74	4.73	4.73
1348.00	4.73	4.72	4.72	4.72	4.71
1353.00	4.71	4.71	4.70	4.70	4.70
1358.00	4.69	4.69	4.69	4.68	4.68
1363.00	4.68	4.67	4.67	4.67	4.67
1368.00	4.66	4.66	4.66	4.65	4.65
1373.00	4.65	4.64	4.64	4.64	4.63
1378.00	4.63	4.63	4.62	4.62	4.62
1383.00	4.61	4.61	4.61	4.61	4.60
1388.00	4.60	4.60	4.59	4.59	4.59
1393.00	4.58	4.58	4.58	4.57	4.57
1398.00	4.57	4.56	4.56	4.56	4.55
1403.00	4.55	4.55	4.54	4.54	4.54
1408.00	4.54	4.53	4.53	4.53	4.52
1413.00	4.52	4.52	4.51	4.51	4.51
1418.00	4.50	4.50	4.50	4.49	4.49
1423.00	4.49	4.48	4.48	4.48	4.47
1428.00	4.47	4.47	4.47	4.46	4.46
1433.00	4.46	4.45	4.45	4.45	4.44
1438.00	4.44	4.44	4.43	4.43	4.42
1443.00	4.41	4.39	4.37	4.33	4.28
1448.00	4.22	4.14	4.05	3.95	3.84
1453.00	3.73	3.60	3.48	3.35	3.22
1458.00	3.09	2.96	2.83	2.70	2.58
1463.00	2.45	2.33	2.22	2.10	1.99
1468.00	1.89	1.78	1.69	1.59	1.50
1473.00	1.41	1.33	1.25	1.18	1.11
1478.00	1.04	.98	.92	.86	.81
1483.00	.76	.71	.66	.62	.58
1488.00	.55	.51	.48	.47	.47
1493.00	.47	.47	.47	.47	.47
1498.00	.47	.47	.47	.47	.47
1503.00	.47	.47	.47	.47	.47

1508.00		.47	.47	.47	.47	.47
1513.00		.47	.47	.47	.47	.47
1518.00		.47	.47	.47	.47	.47

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out) Page 13.54
Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
1523.00	.47	.47	.47	.47	.47	.47
1528.00	.47	.47	.47	.47	.47	.47
1533.00	.47	.47	.47	.47	.47	.47
1538.00	.47	.47	.47	.47	.47	.47
1543.00	.47	.47	.47	.47	.47	.47
1548.00	.46	.46	.46	.46	.46	.46
1553.00	.46	.46	.46	.46	.46	.46
1558.00	.46	.46	.46	.46	.46	.46
1563.00	.46	.46	.46	.46	.46	.46
1568.00	.46	.46	.46	.46	.46	.46
1573.00	.46	.46	.46	.46	.46	.46
1578.00	.46	.46	.46	.46	.46	.46
1583.00	.46	.46	.46	.46	.46	.46
1588.00	.46	.46	.46	.46	.46	.46
1593.00	.46	.46	.46	.46	.46	.46
1598.00	.46	.46	.46	.46	.46	.46
1603.00	.45	.45	.45	.45	.45	.45
1608.00	.45	.45	.45	.45	.45	.45
1613.00	.45	.45	.45	.45	.45	.45
1618.00	.45	.45	.45	.45	.45	.45
1623.00	.45	.45	.45	.45	.45	.45
1628.00	.45	.45	.45	.45	.45	.45
1633.00	.45	.45	.45	.45	.45	.45
1638.00	.45	.45	.45	.45	.45	.45
1643.00	.45	.45	.45	.45	.45	.45
1648.00	.45	.45	.45	.45	.45	.45
1653.00	.45	.45	.45	.45	.45	.45
1658.00	.45	.44	.44	.44	.44	.44
1663.00	.44	.44	.44	.44	.44	.44
1668.00	.44	.44	.44	.44	.44	.44
1673.00	.44	.44	.44	.44	.44	.44
1678.00	.44	.44	.44	.44	.44	.44
1683.00	.44	.44	.44	.44	.44	.44
1688.00	.44	.44	.44	.44	.44	.44

1693.00	.44	.44	.44	.44	.44
1698.00	.44	.44	.44	.44	.44
1703.00	.44	.44	.44	.44	.44
1708.00	.44	.44	.44	.44	.44
1713.00	.44	.44	.44	.43	.43
1718.00	.43	.43	.43	.43	.43
1723.00	.43	.43	.43	.43	.43
1728.00	.43	.43	.43	.43	.43
1733.00	.43	.43	.43	.43	.43
1738.00	.43	.43	.43	.43	.43
1743.00	.43	.43	.43	.43	.43

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out) Page 13.55
Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1748.00	.43	.43	.43	.43	.43
1753.00	.43	.43	.43	.43	.43
1758.00	.43	.43	.43	.43	.43
1763.00	.43	.43	.42	.42	.42
1768.00	.42	.42	.42	.42	.42
1773.00	.42	.42	.42	.42	.42
1778.00	.42	.42	.42	.42	.42
1783.00	.42	.42	.42	.42	.42
1788.00	.42	.42	.42	.42	.42
1793.00	.42	.42	.42	.42	.42
1798.00	.42	.42	.42	.42	.42
1803.00	.42	.42	.42	.42	.42
1808.00	.42	.42	.41	.41	.41
1813.00	.41	.41	.41	.41	.41
1818.00	.41	.41	.41	.41	.41
1823.00	.41	.41	.41	.41	.41
1828.00	.41	.41	.41	.41	.41
1833.00	.41	.41	.41	.41	.41
1838.00	.41	.41	.41	.41	.41
1843.00	.41	.41	.41	.41	.41
1848.00	.41	.41	.41	.41	.41
1853.00	.41	.41	.41	.40	.40
1858.00	.40	.40	.40	.40	.40
1863.00	.40	.40	.40	.40	.40
1868.00	.40	.40	.40	.40	.40
1873.00	.40	.40	.40	.40	.40

1878.00	.40	.40	.40	.40	.40
1883.00	.40	.40	.40	.40	.40
1888.00	.40	.40	.40	.40	.40
1893.00	.40	.40	.40	.40	.40
1898.00	.40	.40	.40	.40	.40
1903.00	.39	.39	.39	.39	.39
1908.00	.39	.39	.39	.39	.39
1913.00	.39	.39	.39	.39	.39
1918.00	.39	.39	.39	.39	.39
1923.00	.39	.39	.39	.39	.39
1928.00	.39	.39	.39	.39	.39
1933.00	.39	.39	.39	.39	.39
1938.00	.39	.39	.39	.39	.39
1943.00	.39	.39	.39	.38	.38
1948.00	.38	.38	.38	.38	.38
1953.00	.38	.38	.38	.38	.38
1958.00	.38	.38	.38	.38	.38
1963.00	.38	.38	.38	.38	.38
1968.00	.38	.38	.38	.38	.38

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out) Page 13.56
Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1973.00	.38	.38	.37	.37	.37
1978.00	.37	.37	.37	.37	.37
1983.00	.37	.37	.37	.37	.37
1988.00	.37	.37	.37	.37	.37
1993.00	.37	.37	.37	.37	.37
1998.00	.37	.37	.37	.37	.37
2003.00	.37	.36	.36	.36	.36
2008.00	.36	.36	.36	.36	.36
2013.00	.36	.36	.36	.36	.36
2018.00	.36	.36	.36	.36	.36
2023.00	.36	.36	.36	.36	.36
2028.00	.36	.36	.36	.36	.36
2033.00	.36	.35	.35	.35	.35
2038.00	.35	.35	.35	.35	.35
2043.00	.35	.35	.35	.35	.35
2048.00	.35	.35	.35	.35	.35
2053.00	.35	.35	.35	.35	.35
2058.00	.35	.35	.35	.35	.35

2063.00	.35	.35	.34	.34	.34
2068.00	.34	.34	.34	.34	.34
2073.00	.34	.34	.34	.34	.34
2078.00	.34	.34	.34	.34	.34
2083.00	.34	.34	.34	.34	.34
2088.00	.34	.34	.34	.34	.34
2093.00	.34	.34	.34	.34	.33
2098.00	.33	.33	.33	.33	.33
2103.00	.33	.33	.33	.33	.33
2108.00	.33	.33	.33	.33	.33
2113.00	.33	.33	.33	.33	.33
2118.00	.33	.33	.33	.33	.33
2123.00	.33	.33	.33	.33	.33
2128.00	.33	.33	.32	.32	.32
2133.00	.32	.32	.32	.32	.32
2138.00	.32	.32	.32	.32	.32
2143.00	.32	.32	.32	.32	.32
2148.00	.32	.32	.32	.32	.32
2153.00	.32	.32	.32	.32	.32
2158.00	.32	.32	.32	.32	.32
2163.00	.32	.32	.32	.32	.32
2168.00	.32	.32	.32	.32	.32
2173.00	.32	.32	.32	.32	.32
2178.00	.32	.32	.32	.32	.32
2183.00	.31	.31	.31	.31	.31
2188.00	.31	.31	.31	.31	.31
2193.00	.31	.31	.31	.31	.31

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Pond Routed HYG (total out) Page 13.57
Name.... MAIN DET OUT Tag: 100 yr Event: 100 yr
File.... F:\PJJ HM AsBuilt\HIGHLAND MEADOWS ASBUILTS.PPW
Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
2198.00	.31	.31	.31	.31	.31
2203.00	.31	.31	.31	.31	.31
2208.00	.31	.31	.31	.31	.31
2213.00	.31	.31	.31	.31	.31
2218.00	.31	.31	.31	.31	.31
2223.00	.31	.31	.31	.31	.31
2228.00	.31	.31	.31	.31	.31
2233.00	.31	.31	.31	.31	.31
2238.00	.31	.31	.31	.31	.31
2243.00	.31				

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 2

Page 13.58
Event: 2 yr

DIVERTED HYDROGRAPH...

HYG file =

HYG ID = ROUTE 10

HYG Tag = 2

Peak Discharge = 27.22 cfs

Time to Peak = 738.00 min

HYG Volume = 4.178 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
538.00	.00	.00	.00	.00	.00
543.00	.00	.01	.01	.01	.01
548.00	.01	.01	.01	.02	.02
553.00	.02	.02	.03	.03	.03
558.00	.03	.04	.04	.04	.04
563.00	.05	.05	.05	.05	.05
568.00	.05	.05	.05	.05	.05
573.00	.05	.05	.06	.06	.06
578.00	.06	.06	.06	.06	.06
583.00	.06	.06	.06	.06	.07
588.00	.07	.07	.07	.07	.07
593.00	.07	.07	.08	.08	.08
598.00	.08	.08	.08	.08	.08
603.00	.08	.08	.08	.08	.08
608.00	.08	.09	.09	.09	.09
613.00	.09	.09	.09	.09	.09
618.00	.09	.09	.10	.10	.10
623.00	.10	.10	.10	.10	.10
628.00	.10	.10	.10	.10	.10
633.00	.10	.10	.11	.11	.11
638.00	.11	.11	.11	.11	.11
643.00	.11	.11	.11	.11	.12
648.00	.12	.12	.12	.12	.12
653.00	.12	.13	.13	.13	.13
658.00	.13	.13	.14	.14	.14
663.00	.14	.14	.15	.15	.15

668.00		.15	.15	.15	.15	.16
673.00		.16	.16	.16	.16	.16
678.00		.16	.16	.17	.17	.17
683.00		.17	.17	.17	.18	.18
688.00		.18	.18	.18	.18	.18

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 2 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
693.00	.19	.19	.19	.19	.19
698.00	.20	.20	.20	.20	.20
703.00	.21	.21	.22	.23	.24
708.00	.25	.26	.26	.27	.28
713.00	.29	.30	.31	.32	.35
718.00	.39	.41	.44	.45	.47
723.00	4.42	8.22	11.54	14.51	17.07
728.00	19.25	21.11	22.66	23.94	24.94
733.00	25.71	26.29	26.71	26.99	27.16
738.00	27.22	27.19	27.08	26.89	26.65
743.00	26.35	25.99	25.60	25.18	24.72
748.00	24.24	23.71	23.18	22.64	22.09
753.00	21.53	20.98	20.43	19.89	19.35
758.00	18.82	18.30	17.79	17.29	16.81
763.00	16.33	15.87	15.41	14.96	14.53
768.00	14.11	13.70	13.32	12.95	12.59
773.00	12.25	11.92	11.61	11.31	11.02
778.00	10.74	10.47	10.22	9.98	9.74
783.00	9.52	9.30	9.09	8.90	8.71
788.00	8.52	8.35	8.18	8.02	7.86
793.00	7.71	7.57	7.43	7.30	7.17
798.00	7.04	6.92	6.80	6.69	6.58
803.00	6.47	6.37	6.28	6.19	6.10
808.00	6.01	5.93	5.85	5.77	5.70
813.00	5.62	5.55	5.49	5.42	5.36
818.00	5.29	5.23	5.18	5.12	5.06
823.00	5.01	4.96	4.91	4.86	4.81
828.00	4.77	4.72	4.68	4.63	4.59
833.00	4.55	4.51	4.47	4.43	4.39
838.00	4.35	4.32	4.28	4.24	4.21
843.00	4.17	4.14	4.10	4.07	4.04
848.00	4.01	3.98	3.94	3.91	3.89

853.00	3.86	3.83	3.80	3.77	3.75
858.00	3.72	3.70	3.68	3.65	3.63
863.00	3.61	3.59	3.57	3.55	3.53
868.00	3.51	3.49	3.47	3.46	3.44
873.00	3.42	3.41	3.39	3.38	3.36
878.00	3.35	3.34	3.32	3.31	3.29
883.00	3.28	3.27	3.26	3.24	3.23
888.00	3.22	3.21	3.20	3.18	3.17
893.00	3.16	3.15	3.14	3.13	3.12
898.00	3.11	3.09	3.08	3.07	3.06
903.00	3.05	3.04	3.03	3.02	3.01
908.00	3.00	2.99	2.98	2.97	2.96
913.00	2.95	2.94	2.93	2.92	2.91

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 2

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Event: 2 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
918.00	2.90	2.89	2.88	2.87	2.86
923.00	2.85	2.84	2.83	2.82	2.81
928.00	2.80	2.79	2.78	2.77	2.76
933.00	2.75	2.74	2.73	2.72	2.71
938.00	2.70	2.69	2.68	2.67	2.66
943.00	2.65	2.64	2.62	2.61	2.60
948.00	2.59	2.58	2.57	2.56	2.55
953.00	2.54	2.53	2.52	2.51	2.50
958.00	2.49	2.48	2.47	2.46	2.45
963.00	2.44	2.43	2.42	2.41	2.40
968.00	2.39	2.38	2.37	2.36	2.35
973.00	2.34	2.33	2.32	2.31	2.31
978.00	2.30	2.29	2.28	2.27	2.27
983.00	2.26	2.25	2.25	2.24	2.23
988.00	2.23	2.22	2.21	2.21	2.20
993.00	2.20	2.19	2.18	2.18	2.17
998.00	2.17	2.16	2.16	2.15	2.15
1003.00	2.14	2.14	2.13	2.13	2.13
1008.00	2.12	2.12	2.11	2.11	2.10
1013.00	2.10	2.10	2.09	2.09	2.08
1018.00	2.08	2.08	2.07	2.07	2.06
1023.00	2.06	2.06	2.05	2.05	2.05
1028.00	2.04	2.04	2.03	2.03	2.03
1033.00	2.02	2.02	2.02	2.01	2.01

1038.00	2.00	2.00	2.00	1.99	1.99
1043.00	1.99	1.98	1.98	1.98	1.97
1048.00	1.97	1.96	1.96	1.96	1.95
1053.00	1.95	1.95	1.94	1.94	1.94
1058.00	1.93	1.93	1.92	1.92	1.92
1063.00	1.91	1.91	1.91	1.90	1.90
1068.00	1.90	1.89	1.89	1.88	1.88
1073.00	1.88	1.87	1.87	1.87	1.86
1078.00	1.86	1.85	1.85	1.85	1.84
1083.00	1.84	1.84	1.83	1.83	1.82
1088.00	1.82	1.82	1.81	1.81	1.81
1093.00	1.80	1.80	1.80	1.79	1.79
1098.00	1.78	1.78	1.78	1.77	1.77
1103.00	1.77	1.76	1.76	1.75	1.75
1108.00	1.75	1.74	1.74	1.74	1.73
1113.00	1.73	1.72	1.72	1.72	1.71
1118.00	1.71	1.71	1.70	1.70	1.69
1123.00	1.69	1.69	1.68	1.68	1.67
1128.00	1.67	1.67	1.66	1.66	1.66
1133.00	1.65	1.65	1.64	1.64	1.64
1138.00	1.63	1.63	1.63	1.62	1.62

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

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Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 2

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Event: 2 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1143.00	1.61	1.61	1.61	1.60	1.60
1148.00	1.59	1.59	1.59	1.58	1.58
1153.00	1.58	1.57	1.57	1.56	1.56
1158.00	1.56	1.55	1.55	1.54	1.54
1163.00	1.54	1.53	1.53	1.53	1.52
1168.00	1.52	1.51	1.51	1.51	1.50
1173.00	1.50	1.49	1.49	1.49	1.48
1178.00	1.48	1.48	1.47	1.47	1.46
1183.00	1.46	1.46	1.45	1.45	1.44
1188.00	1.44	1.44	1.43	1.43	1.42
1193.00	1.42	1.42	1.41	1.41	1.40
1198.00	1.40	1.40	1.39	1.39	1.39
1203.00	1.38	1.38	1.37	1.37	1.37
1208.00	1.36	1.36	1.35	1.35	1.35
1213.00	1.34	1.34	1.34	1.33	1.33
1218.00	1.33	1.33	1.32	1.32	1.32

1223.00	1.31	1.31	1.31	1.31	1.31
1228.00	1.30	1.30	1.30	1.30	1.30
1233.00	1.29	1.29	1.29	1.29	1.29
1238.00	1.29	1.29	1.28	1.28	1.28
1243.00	1.28	1.28	1.28	1.28	1.28
1248.00	1.27	1.27	1.27	1.27	1.27
1253.00	1.27	1.27	1.27	1.27	1.27
1258.00	1.26	1.26	1.26	1.26	1.26
1263.00	1.26	1.26	1.26	1.26	1.26
1268.00	1.26	1.26	1.25	1.25	1.25
1273.00	1.25	1.25	1.25	1.25	1.25
1278.00	1.25	1.25	1.25	1.25	1.25
1283.00	1.24	1.24	1.24	1.24	1.24
1288.00	1.24	1.24	1.24	1.24	1.24
1293.00	1.24	1.24	1.24	1.24	1.23
1298.00	1.23	1.23	1.23	1.23	1.23
1303.00	1.23	1.23	1.23	1.23	1.23
1308.00	1.23	1.23	1.23	1.22	1.22
1313.00	1.22	1.22	1.22	1.22	1.22
1318.00	1.22	1.22	1.22	1.22	1.22
1323.00	1.22	1.22	1.21	1.21	1.21
1328.00	1.21	1.21	1.21	1.21	1.21
1333.00	1.21	1.21	1.21	1.21	1.21
1338.00	1.21	1.20	1.20	1.20	1.20
1343.00	1.20	1.20	1.20	1.20	1.20
1348.00	1.20	1.20	1.20	1.20	1.20
1353.00	1.19	1.19	1.19	1.19	1.19
1358.00	1.19	1.19	1.19	1.19	1.19
1363.00	1.19	1.19	1.19	1.19	1.18

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PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 2

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Event: 2 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1368.00	1.18	1.18	1.18	1.18	1.18
1373.00	1.18	1.18	1.18	1.18	1.18
1378.00	1.18	1.18	1.18	1.17	1.17
1383.00	1.17	1.17	1.17	1.17	1.17
1388.00	1.17	1.17	1.17	1.17	1.17
1393.00	1.17	1.17	1.16	1.16	1.16
1398.00	1.16	1.16	1.16	1.16	1.16
1403.00	1.16	1.16	1.16	1.16	1.16

1408.00	1.15	1.15	1.15	1.15	1.15
1413.00	1.15	1.15	1.15	1.15	1.15
1418.00	1.15	1.15	1.15	1.15	1.14
1423.00	1.14	1.14	1.14	1.14	1.14
1428.00	1.14	1.14	1.14	1.14	1.14
1433.00	1.14	1.14	1.13	1.13	1.13
1438.00	1.13	1.13	1.13	1.13	1.13
1443.00	1.13	1.12	1.11	1.11	1.09
1448.00	1.08	1.06	1.03	1.00	.98
1453.00	.95	.91	.88	.85	.81
1458.00	.78	.74	.71	.68	.65
1463.00	.61	.58	.55	.53	.50
1468.00	.47	.47	.47	.47	.47
1473.00	.47	.47	.47	.47	.47
1478.00	.47	.47	.47	.47	.47
1483.00	.47	.47	.47	.47	.47
1488.00	.47	.47	.47	.47	.47
1493.00	.47	.47	.47	.47	.47
1498.00	.47	.47	.47	.47	.47
1503.00	.47	.47	.47	.47	.47
1508.00	.47	.47	.47	.47	.47
1513.00	.47	.47	.47	.47	.47
1518.00	.47	.47	.47	.47	.47
1523.00	.47	.47	.47	.47	.47
1528.00	.46	.46	.46	.46	.46
1533.00	.46	.46	.46	.46	.46
1538.00	.46	.46	.46	.46	.46
1543.00	.46	.46	.46	.46	.46
1548.00	.46	.46	.46	.46	.46
1553.00	.46	.46	.46	.46	.46
1558.00	.46	.46	.46	.46	.46
1563.00	.46	.46	.46	.46	.46
1568.00	.46	.46	.46	.46	.46
1573.00	.46	.46	.46	.46	.46
1578.00	.46	.46	.46	.46	.45
1583.00	.45	.45	.45	.45	.45
1588.00	.45	.45	.45	.45	.45

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 2

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Event: 2 yr

HYDROGRAPH ORDINATES (cfs)	
Time	Output Time increment = 1.00 min
min	Time on left represents time for first value in each row.
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1593.00	.45	.45	.45	.45	.45
1598.00	.45	.45	.45	.45	.45
1603.00	.45	.45	.45	.45	.45
1608.00	.45	.45	.45	.45	.45
1613.00	.45	.45	.45	.45	.45
1618.00	.45	.45	.45	.45	.45
1623.00	.45	.45	.45	.45	.45
1628.00	.45	.45	.45	.45	.45
1633.00	.45	.45	.45	.45	.45
1638.00	.44	.44	.44	.44	.44
1643.00	.44	.44	.44	.44	.44
1648.00	.44	.44	.44	.44	.44
1653.00	.44	.44	.44	.44	.44
1658.00	.44	.44	.44	.44	.44
1663.00	.44	.44	.44	.44	.44
1668.00	.44	.44	.44	.44	.44
1673.00	.44	.44	.44	.44	.44
1678.00	.44	.44	.44	.44	.44
1683.00	.44	.44	.44	.44	.44
1688.00	.44	.44	.44	.44	.44
1693.00	.44	.44	.44	.43	.43
1698.00	.43	.43	.43	.43	.43
1703.00	.43	.43	.43	.43	.43
1708.00	.43	.43	.43	.43	.43
1713.00	.43	.43	.43	.43	.43
1718.00	.43	.43	.43	.43	.43
1723.00	.43	.43	.43	.43	.43
1728.00	.43	.43	.43	.43	.43
1733.00	.43	.43	.43	.43	.43
1738.00	.43	.43	.43	.43	.43
1743.00	.43	.42	.42	.42	.42
1748.00	.42	.42	.42	.42	.42
1753.00	.42	.42	.42	.42	.42
1758.00	.42	.42	.42	.42	.42
1763.00	.42	.42	.42	.42	.42
1768.00	.42	.42	.42	.42	.42
1773.00	.42	.42	.42	.42	.42
1778.00	.42	.42	.42	.42	.42
1783.00	.42	.42	.42	.42	.42
1788.00	.42	.41	.41	.41	.41
1793.00	.41	.41	.41	.41	.41
1798.00	.41	.41	.41	.41	.41
1803.00	.41	.41	.41	.41	.41
1808.00	.41	.41	.41	.41	.41
1813.00	.41	.41	.41	.41	.41

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Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 2 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
1818.00	.41	.41	.41	.41	.41	.41
1823.00	.41	.41	.41	.41	.41	.41
1828.00	.41	.41	.41	.41	.41	.41
1833.00	.41	.41	.40	.40	.40	.40
1838.00	.40	.40	.40	.40	.40	.40
1843.00	.40	.40	.40	.40	.40	.40
1848.00	.40	.40	.40	.40	.40	.40
1853.00	.40	.40	.40	.40	.40	.40
1858.00	.40	.40	.40	.40	.40	.40
1863.00	.40	.40	.40	.40	.40	.40
1868.00	.40	.40	.40	.40	.40	.40
1873.00	.40	.40	.40	.40	.40	.40
1878.00	.40	.40	.40	.40	.40	.39
1883.00	.39	.39	.39	.39	.39	.39
1888.00	.39	.39	.39	.39	.39	.39
1893.00	.39	.39	.39	.39	.39	.39
1898.00	.39	.39	.39	.39	.39	.39
1903.00	.39	.39	.39	.39	.39	.39
1908.00	.39	.39	.39	.39	.39	.39
1913.00	.39	.39	.39	.39	.39	.39
1918.00	.39	.39	.39	.39	.39	.39
1923.00	.39	.39	.38	.38	.38	.38
1928.00	.38	.38	.38	.38	.38	.38
1933.00	.38	.38	.38	.38	.38	.38
1938.00	.38	.38	.38	.38	.38	.38
1943.00	.38	.38	.38	.38	.38	.38
1948.00	.38	.38	.38	.38	.38	.38
1953.00	.38	.37	.37	.37	.37	.37
1958.00	.37	.37	.37	.37	.37	.37
1963.00	.37	.37	.37	.37	.37	.37
1968.00	.37	.37	.37	.37	.37	.37
1973.00	.37	.37	.37	.37	.37	.37
1978.00	.37	.37	.37	.37	.37	.37
1983.00	.36	.36	.36	.36	.36	.36
1988.00	.36	.36	.36	.36	.36	.36
1993.00	.36	.36	.36	.36	.36	.36
1998.00	.36	.36	.36	.36	.36	.36
2003.00	.36	.36	.36	.36	.36	.36
2008.00	.36	.36	.36	.36	.36	.36
2013.00	.36	.35	.35	.35	.35	.35
2018.00	.35	.35	.35	.35	.35	.35
2023.00	.35	.35	.35	.35	.35	.35

2028.00		.35	.35	.35	.35	.35
2033.00		.35	.35	.35	.35	.35
2038.00		.35	.35	.35	.35	.35

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

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Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 2 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
2043.00	.35	.35	.34	.34	.34
2048.00	.34	.34	.34	.34	.34
2053.00	.34	.34	.34	.34	.34
2058.00	.34	.34	.34	.34	.34
2063.00	.34	.34	.34	.34	.34
2068.00	.34	.34	.34	.34	.34
2073.00	.34	.34	.34	.34	.33
2078.00	.33	.33	.33	.33	.33
2083.00	.33	.33	.33	.33	.33
2088.00	.33	.33	.33	.33	.33
2093.00	.33	.33	.33	.33	.33
2098.00	.33	.33	.33	.33	.33
2103.00	.33	.33	.33	.33	.33
2108.00	.33	.32	.32	.32	.32
2113.00	.32	.32	.32	.32	.32
2118.00	.32	.32	.32	.32	.32
2123.00	.32	.32	.32	.32	.32
2128.00	.32	.32	.32	.32	.32
2133.00	.32	.32	.32	.32	.32
2138.00	.32	.32	.32	.32	.32
2143.00	.32	.32	.32	.32	.32
2148.00	.32	.32	.32	.32	.32
2153.00	.32	.32	.32	.32	.32
2158.00	.32	.32	.32	.32	.31
2163.00	.31	.31	.31	.31	.31
2168.00	.31	.31	.31	.31	.31
2173.00	.31	.31	.31	.31	.31
2178.00	.31	.31	.31	.31	.31
2183.00	.31	.31	.31	.31	.31
2188.00	.31	.31	.31	.31	.31
2193.00	.31	.31	.31	.31	.31
2198.00	.31	.31	.31	.31	.31
2203.00	.31	.31	.31	.31	.31
2208.00	.31	.31	.31	.31	.31

2213.00		.31	.31	.31	.31	.31
2218.00		.31	.31	.31	.31	.31
2223.00		.31	.31	.31	.31	.31
2228.00		.31	.31	.31	.31	.31
2233.00		.31	.31	.31	.31	.31
2238.00		.31	.31	.31	.31	.31
2243.00		.31	.31	.31	.31	.31
2248.00		.31	.31	.31	.31	.31
2253.00		.31	.31	.31	.31	.31
2258.00		.31	.31	.31	.31	.31
2263.00		.31	.31	.31	.31	.31

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 2 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					

2268.00		.31	.31	.31	.30	.30
2273.00		.30	.30	.30	.30	.30
2278.00		.30	.30	.30	.30	.30
2283.00		.30	.30	.30	.30	.30
2288.00		.30	.30	.30	.30	.30
2293.00		.30	.30	.30	.30	.30
2298.00		.30	.30	.30	.30	.30
2303.00		.30	.30	.30	.30	.30
2308.00		.30	.30	.30	.30	.30
2313.00		.30	.30	.30	.30	.30
2318.00		.30	.30	.30	.30	.30
2323.00		.30	.30	.30	.30	.30
2328.00		.30	.30	.30	.30	.30
2333.00		.30	.30	.30	.30	.30
2338.00		.30	.30	.30	.30	.30
2343.00		.30	.30	.30	.30	.30
2348.01		.30	.30	.30	.30	.30
2353.00		.30	.30	.30	.30	.30
2358.00		.30	.30	.30	.30	.30
2363.01		.30	.30	.30	.30	.30
2368.00		.30	.30	.30	.30	.30
2373.00		.30	.30	.30	.30	.29
2378.01		.29	.29	.29	.29	.29
2383.00		.29	.29	.29	.29	.29
2388.01		.29	.29	.29	.29	.29
2393.01		.29	.29	.29	.29	.29

2398.00		.29	.29	.29	.29	.29
2403.01		.29	.29	.29	.29	.29
2408.01		.29	.29	.29	.29	.29
2413.00		.29	.29	.29	.29	.29
2418.01		.29	.29	.29	.29	.29
2423.01		.29	.29	.29	.29	.29
2428.01		.29	.29	.29	.29	.29
2433.01		.29	.29	.29	.29	.29
2438.01		.29	.29	.29	.29	.29
2443.01		.29	.29	.29	.29	.29
2448.01		.29	.29	.29	.29	.29
2453.01		.29	.29	.29	.29	.29
2458.01		.29	.29	.29	.29	.29
2463.01		.29	.29	.29	.29	.29
2468.01		.29	.28	.28	.28	.28
2473.01		.28	.28	.28	.28	.28
2478.01		.28	.28	.28	.28	.28
2483.01		.28	.28	.28	.28	.28
2488.01		.28	.28	.28	.28	.28

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 2

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Event: 2 yr

HYDROGRAPH ORDINATES (cfs)						
Time	Output Time increment = 1.00 min					
min	Time on left represents time for first value in each row.					
-----	-----					
2493.01		.28	.28	.28	.28	.28
2498.01		.28	.28	.28	.28	.28
2503.01		.28	.28	.28	.28	.28
2508.01		.28	.28	.28	.28	.28
2513.01		.28	.28	.28	.28	.28
2518.01		.28	.28	.28	.28	.28
2523.01		.28	.28	.28	.28	.28
2528.01		.28	.28	.28	.28	.28
2533.01		.28	.28	.28		

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 10 yr

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Event: 10 yr

DIVERTED HYDROGRAPH...

HYG file =

HYG ID = ROUTE 10

HYG Tag = 10 yr

Peak Discharge = 95.97 cfs

Time to Peak = 733.00 min

HYG Volume = 11.918 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
360.00	.00	.00	.00	.00	.00
365.00	.00	.01	.01	.01	.01
370.00	.01	.01	.02	.02	.02
375.00	.02	.03	.03	.03	.03
380.00	.04	.04	.04	.05	.05
385.00	.05	.05	.05	.05	.05
390.00	.05	.05	.05	.05	.06
395.00	.06	.06	.06	.06	.06
400.00	.06	.06	.06	.06	.06
405.00	.07	.07	.07	.07	.07
410.00	.07	.07	.07	.08	.08
415.00	.08	.08	.08	.08	.08
420.00	.08	.08	.08	.08	.08
425.00	.08	.08	.08	.09	.09
430.00	.09	.09	.09	.09	.09
435.00	.09	.09	.09	.09	.09
440.00	.09	.09	.10	.10	.10
445.00	.10	.10	.10	.10	.10
450.00	.10	.10	.10	.10	.10
455.00	.10	.10	.10	.10	.10
460.00	.10	.10	.11	.11	.11
465.00	.11	.11	.11	.11	.11
470.00	.11	.11	.11	.11	.11
475.00	.11	.11	.11	.11	.12
480.00	.12	.12	.12	.12	.12
485.00	.12	.12	.12	.12	.12
490.00	.12	.13	.13	.13	.13
495.00	.13	.13	.13	.13	.13
500.00	.14	.14	.14	.14	.14
505.00	.14	.14	.14	.15	.15
510.00	.15	.15	.15	.15	.15

S/N: C21F01C070CE

Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph
 Name.... ROUTE 10
 File.... F:\PJJ HM AsBuilt\
 Storm... Type II 24hr Tag: 10 yr

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 Event: 10 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
515.00	.15	.15	.15	.15	.16
520.00	.16	.16	.16	.16	.16
525.00	.16	.16	.16	.16	.16
530.00	.16	.17	.17	.17	.17
535.00	.17	.17	.17	.17	.17
540.00	.17	.18	.18	.18	.18
545.00	.18	.18	.18	.18	.18
550.00	.18	.18	.18	.18	.18
555.00	.19	.19	.19	.19	.19
560.00	.19	.19	.19	.19	.19
565.00	.19	.20	.20	.20	.20
570.00	.20	.20	.20	.20	.20
575.00	.20	.20	.20	.20	.20
580.00	.20	.21	.21	.21	.21
585.00	.21	.21	.21	.21	.21
590.00	.21	.21	.22	.22	.22
595.00	.22	.22	.22	.23	.23
600.00	.23	.23	.23	.23	.24
605.00	.24	.24	.24	.24	.25
610.00	.25	.25	.25	.25	.25
615.00	.25	.26	.26	.26	.26
620.00	.26	.26	.26	.26	.27
625.00	.27	.27	.27	.27	.27
630.00	.28	.28	.28	.28	.28
635.00	.28	.28	.28	.29	.29
640.00	.29	.29	.29	.29	.29
645.00	.29	.30	.30	.30	.30
650.00	.30	.30	.30	.31	.31
655.00	.31	.31	.31	.31	.31
660.00	.32	.32	.32	.33	.33
665.00	.34	.34	.35	.35	.36
670.00	.36	.37	.37	.38	.39
675.00	.39	.39	.40	.40	.41
680.00	.41	.41	.42	.42	.43
685.00	.43	.43	.44	.44	.45
690.00	.45	.45	.46	.46	.47
695.00	.47	.65	1.76	2.88	4.03
700.00	5.22	6.49	7.81	9.19	10.69
705.00	12.32	14.12	16.07	18.11	20.36
710.00	22.87	25.58	28.50	31.77	35.30
715.00	39.16	43.30	47.68	52.25	56.95

720.00	61.65	66.33	70.82	75.14	79.12
725.00	82.76	85.94	88.67	90.98	92.81
730.00	94.16	95.11	95.71	95.97	95.93
735.00	95.62	95.11	94.41	93.52	92.48

S/N: C21F01C070CE Bowers Engineering Inc

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 10 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
740.00	91.29	89.97	88.55	87.03	85.44
745.00	83.77	82.02	80.22	78.38	76.52
750.00	74.64	72.73	70.82	68.93	67.05
755.00	65.16	63.29	61.45	59.65	57.88
760.00	56.12	54.40	52.73	51.11	49.53
765.00	47.97	46.46	45.01	43.61	42.26
770.00	40.95	39.65	38.41	37.21	36.07
775.00	34.98	33.93	32.92	31.92	30.95
780.00	30.03	29.15	28.32	27.51	26.75
785.00	26.02	25.32	24.65	24.00	23.36
790.00	22.75	22.17	21.62	21.09	20.59
795.00	20.11	19.65	19.22	18.80	18.40
800.00	18.02	17.66	17.31	16.98	16.66
805.00	16.36	16.07	15.78	15.50	15.23
810.00	14.97	14.72	14.48	14.25	14.03
815.00	13.82	13.62	13.42	13.23	13.05
820.00	12.87	12.71	12.54	12.39	12.23
825.00	12.09	11.95	11.81	11.68	11.55
830.00	11.42	11.30	11.18	11.07	10.95
835.00	10.84	10.74	10.63	10.53	10.43
840.00	10.33	10.24	10.14	10.05	9.96
845.00	9.87	9.78	9.70	9.62	9.53
850.00	9.45	9.38	9.30	9.23	9.15
855.00	9.08	9.01	8.95	8.88	8.82
860.00	8.76	8.70	8.64	8.59	8.53
865.00	8.48	8.43	8.38	8.33	8.28
870.00	8.24	8.19	8.15	8.11	8.07
875.00	8.03	7.99	7.95	7.91	7.88
880.00	7.84	7.81	7.77	7.74	7.71
885.00	7.67	7.64	7.61	7.58	7.55
890.00	7.52	7.49	7.46	7.43	7.40
895.00	7.37	7.35	7.32	7.29	7.26
900.00	7.23	7.21	7.18	7.15	7.12

905.00	7.10	7.07	7.04	7.02	6.99
910.00	6.96	6.94	6.91	6.89	6.86
915.00	6.83	6.81	6.78	6.76	6.73
920.00	6.71	6.68	6.66	6.63	6.61
925.00	6.58	6.56	6.53	6.51	6.48
930.00	6.46	6.44	6.41	6.39	6.36
935.00	6.34	6.31	6.29	6.26	6.24
940.00	6.21	6.19	6.17	6.14	6.12
945.00	6.09	6.07	6.04	6.02	5.99
950.00	5.97	5.94	5.92	5.90	5.87
955.00	5.85	5.82	5.80	5.77	5.75
960.00	5.72	5.70	5.67	5.65	5.62

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 10 yr

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Event: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
965.00	5.60	5.58	5.55	5.53	5.50
970.00	5.48	5.46	5.44	5.41	5.39
975.00	5.37	5.35	5.33	5.31	5.29
980.00	5.27	5.25	5.23	5.21	5.20
985.00	5.18	5.16	5.15	5.13	5.12
990.00	5.10	5.09	5.07	5.06	5.05
995.00	5.03	5.02	5.01	4.99	4.98
1000.00	4.97	4.96	4.95	4.93	4.92
1005.00	4.91	4.90	4.89	4.88	4.87
1010.00	4.86	4.85	4.84	4.83	4.82
1015.00	4.81	4.80	4.79	4.78	4.77
1020.00	4.76	4.75	4.74	4.73	4.72
1025.00	4.71	4.70	4.69	4.69	4.68
1030.00	4.67	4.66	4.65	4.64	4.63
1035.00	4.62	4.61	4.60	4.60	4.59
1040.00	4.58	4.57	4.56	4.55	4.54
1045.00	4.53	4.52	4.52	4.51	4.50
1050.00	4.49	4.48	4.47	4.46	4.45
1055.00	4.45	4.44	4.43	4.42	4.41
1060.00	4.40	4.39	4.38	4.37	4.37
1065.00	4.36	4.35	4.34	4.33	4.32
1070.00	4.31	4.30	4.30	4.29	4.28
1075.00	4.27	4.26	4.25	4.24	4.23
1080.00	4.23	4.22	4.21	4.20	4.19
1085.00	4.18	4.17	4.16	4.15	4.15

1090.00	4.14	4.13	4.12	4.11	4.10
1095.00	4.09	4.08	4.08	4.07	4.06
1100.00	4.05	4.04	4.03	4.02	4.01
1105.00	4.00	4.00	3.99	3.98	3.97
1110.00	3.96	3.95	3.94	3.93	3.92
1115.00	3.92	3.91	3.90	3.89	3.88
1120.00	3.87	3.86	3.85	3.84	3.84
1125.00	3.83	3.82	3.81	3.80	3.79
1130.00	3.78	3.77	3.76	3.75	3.75
1135.00	3.74	3.73	3.72	3.71	3.70
1140.00	3.69	3.68	3.67	3.67	3.66
1145.00	3.65	3.64	3.63	3.62	3.61
1150.00	3.60	3.59	3.58	3.58	3.57
1155.00	3.56	3.55	3.54	3.53	3.52
1160.00	3.51	3.50	3.49	3.49	3.48
1165.00	3.47	3.46	3.45	3.44	3.43
1170.00	3.42	3.41	3.40	3.40	3.39
1175.00	3.38	3.37	3.36	3.35	3.34
1180.00	3.33	3.32	3.31	3.31	3.30
1185.00	3.29	3.28	3.27	3.26	3.25

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 10 yr

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Event: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
1190.00	3.24	3.23	3.22	3.22	3.21
1195.00	3.20	3.19	3.18	3.17	3.16
1200.00	3.15	3.14	3.13	3.12	3.12
1205.00	3.11	3.10	3.09	3.08	3.07
1210.00	3.06	3.05	3.05	3.04	3.03
1215.00	3.02	3.02	3.01	3.00	2.99
1220.00	2.99	2.98	2.98	2.97	2.96
1225.00	2.96	2.95	2.95	2.94	2.94
1230.00	2.93	2.93	2.93	2.92	2.92
1235.00	2.91	2.91	2.91	2.90	2.90
1240.00	2.90	2.89	2.89	2.89	2.88
1245.00	2.88	2.88	2.87	2.87	2.87
1250.00	2.87	2.86	2.86	2.86	2.86
1255.00	2.86	2.85	2.85	2.85	2.85
1260.00	2.84	2.84	2.84	2.84	2.84
1265.00	2.83	2.83	2.83	2.83	2.83
1270.00	2.82	2.82	2.82	2.82	2.82

1275.00	2.81	2.81	2.81	2.81	2.81
1280.00	2.81	2.80	2.80	2.80	2.80
1285.00	2.80	2.79	2.79	2.79	2.79
1290.00	2.79	2.79	2.78	2.78	2.78
1295.00	2.78	2.78	2.78	2.77	2.77
1300.00	2.77	2.77	2.77	2.76	2.76
1305.00	2.76	2.76	2.76	2.76	2.75
1310.00	2.75	2.75	2.75	2.75	2.75
1315.00	2.74	2.74	2.74	2.74	2.74
1320.00	2.74	2.73	2.73	2.73	2.73
1325.00	2.73	2.73	2.72	2.72	2.72
1330.00	2.72	2.72	2.71	2.71	2.71
1335.00	2.71	2.71	2.71	2.70	2.70
1340.00	2.70	2.70	2.70	2.70	2.69
1345.00	2.69	2.69	2.69	2.69	2.69
1350.00	2.68	2.68	2.68	2.68	2.68
1355.00	2.67	2.67	2.67	2.67	2.67
1360.00	2.67	2.66	2.66	2.66	2.66
1365.00	2.66	2.66	2.65	2.65	2.65
1370.00	2.65	2.65	2.64	2.64	2.64
1375.00	2.64	2.64	2.64	2.63	2.63
1380.00	2.63	2.63	2.63	2.63	2.62
1385.00	2.62	2.62	2.62	2.62	2.62
1390.00	2.61	2.61	2.61	2.61	2.61
1395.00	2.60	2.60	2.60	2.60	2.60
1400.00	2.60	2.59	2.59	2.59	2.59
1405.00	2.59	2.59	2.58	2.58	2.58
1410.00	2.58	2.58	2.57	2.57	2.57

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 10 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1415.00	2.57	2.57	2.57	2.56	2.56
1420.00	2.56	2.56	2.56	2.56	2.55
1425.00	2.55	2.55	2.55	2.55	2.54
1430.00	2.54	2.54	2.54	2.54	2.54
1435.00	2.53	2.53	2.53	2.53	2.53
1440.00	2.53	2.52	2.52	2.51	2.50
1445.00	2.49	2.47	2.44	2.40	2.36
1450.00	2.31	2.25	2.19	2.12	2.05
1455.00	1.98	1.90	1.83	1.75	1.68

1460.00	1.60	1.53	1.46	1.39	1.32
1465.00	1.26	1.19	1.13	1.07	1.01
1470.00	.95	.90	.85	.80	.75
1475.00	.71	.67	.63	.59	.55
1480.00	.52	.49	.47	.47	.47
1485.00	.47	.47	.47	.47	.47
1490.00	.47	.47	.47	.47	.47
1495.00	.47	.47	.47	.47	.47
1500.00	.47	.47	.47	.47	.47
1505.00	.47	.47	.47	.47	.47
1510.00	.47	.47	.47	.47	.47
1515.00	.47	.47	.47	.47	.47
1520.00	.47	.47	.47	.47	.47
1525.00	.47	.47	.47	.47	.47
1530.00	.47	.47	.47	.47	.47
1535.00	.47	.47	.47	.47	.47
1540.00	.46	.46	.46	.46	.46
1545.00	.46	.46	.46	.46	.46
1550.00	.46	.46	.46	.46	.46
1555.00	.46	.46	.46	.46	.46
1560.00	.46	.46	.46	.46	.46
1565.00	.46	.46	.46	.46	.46
1570.00	.46	.46	.46	.46	.46
1575.00	.46	.46	.46	.46	.46
1580.00	.46	.46	.46	.46	.46
1585.00	.46	.46	.46	.46	.46
1590.00	.46	.46	.46	.46	.46
1595.00	.45	.45	.45	.45	.45
1600.00	.45	.45	.45	.45	.45
1605.00	.45	.45	.45	.45	.45
1610.00	.45	.45	.45	.45	.45
1615.00	.45	.45	.45	.45	.45
1620.00	.45	.45	.45	.45	.45
1625.00	.45	.45	.45	.45	.45
1630.00	.45	.45	.45	.45	.45
1635.00	.45	.45	.45	.45	.45

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 10 yr

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Event: 10 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1640.00	.45	.45	.45	.45	.45

1645.00	.45	.45	.45	.45	.45
1650.00	.45	.44	.44	.44	.44
1655.00	.44	.44	.44	.44	.44
1660.00	.44	.44	.44	.44	.44
1665.00	.44	.44	.44	.44	.44
1670.00	.44	.44	.44	.44	.44
1675.00	.44	.44	.44	.44	.44
1680.00	.44	.44	.44	.44	.44
1685.00	.44	.44	.44	.44	.44
1690.00	.44	.44	.44	.44	.44
1695.00	.44	.44	.44	.44	.44
1700.00	.44	.44	.44	.44	.44
1705.00	.44	.44	.44	.43	.43
1710.00	.43	.43	.43	.43	.43
1715.00	.43	.43	.43	.43	.43
1720.00	.43	.43	.43	.43	.43
1725.00	.43	.43	.43	.43	.43
1730.00	.43	.43	.43	.43	.43
1735.00	.43	.43	.43	.43	.43
1740.00	.43	.43	.43	.43	.43
1745.00	.43	.43	.43	.43	.43
1750.00	.43	.43	.43	.43	.43
1755.00	.43	.43	.42	.42	.42
1760.00	.42	.42	.42	.42	.42
1765.00	.42	.42	.42	.42	.42
1770.00	.42	.42	.42	.42	.42
1775.00	.42	.42	.42	.42	.42
1780.00	.42	.42	.42	.42	.42
1785.00	.42	.42	.42	.42	.42
1790.00	.42	.42	.42	.42	.42
1795.00	.42	.42	.42	.42	.42
1800.00	.42	.42	.41	.41	.41
1805.00	.41	.41	.41	.41	.41
1810.00	.41	.41	.41	.41	.41
1815.00	.41	.41	.41	.41	.41
1820.00	.41	.41	.41	.41	.41
1825.00	.41	.41	.41	.41	.41
1830.00	.41	.41	.41	.41	.41
1835.00	.41	.41	.41	.41	.41
1840.00	.41	.41	.41	.41	.41
1845.00	.41	.41	.40	.40	.40
1850.00	.40	.40	.40	.40	.40
1855.00	.40	.40	.40	.40	.40
1860.00	.40	.40	.40	.40	.40

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10

Page 13.75
Event: 10 yr

File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 10 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1865.00	.40	.40	.40	.40	.40
1870.00	.40	.40	.40	.40	.40
1875.00	.40	.40	.40	.40	.40
1880.00	.40	.40	.40	.40	.40
1885.00	.40	.40	.40	.40	.40
1890.00	.40	.40	.40	.40	.39
1895.00	.39	.39	.39	.39	.39
1900.00	.39	.39	.39	.39	.39
1905.00	.39	.39	.39	.39	.39
1910.00	.39	.39	.39	.39	.39
1915.00	.39	.39	.39	.39	.39
1920.00	.39	.39	.39	.39	.39
1925.00	.39	.39	.39	.39	.39
1930.00	.39	.39	.39	.39	.39
1935.00	.39	.39	.39	.38	.38
1940.00	.38	.38	.38	.38	.38
1945.00	.38	.38	.38	.38	.38
1950.00	.38	.38	.38	.38	.38
1955.00	.38	.38	.38	.38	.38
1960.00	.38	.38	.38	.38	.38
1965.00	.38	.38	.37	.37	.37
1970.00	.37	.37	.37	.37	.37
1975.00	.37	.37	.37	.37	.37
1980.00	.37	.37	.37	.37	.37
1985.00	.37	.37	.37	.37	.37
1990.00	.37	.37	.37	.37	.37
1995.00	.37	.36	.36	.36	.36
2000.00	.36	.36	.36	.36	.36
2005.00	.36	.36	.36	.36	.36
2010.00	.36	.36	.36	.36	.36
2015.00	.36	.36	.36	.36	.36
2020.00	.36	.36	.36	.36	.36
2025.00	.36	.35	.35	.35	.35
2030.00	.35	.35	.35	.35	.35
2035.00	.35	.35	.35	.35	.35
2040.00	.35	.35	.35	.35	.35
2045.00	.35	.35	.35	.35	.35
2050.00	.35	.35	.35	.35	.35
2055.00	.35	.35	.34	.34	.34
2060.00	.34	.34	.34	.34	.34
2065.00	.34	.34	.34	.34	.34
2070.00	.34	.34	.34	.34	.34
2075.00	.34	.34	.34	.34	.34

2080.00		.34	.34	.34	.34	.34
2085.00		.34	.34	.34	.34	.33

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 10 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 10 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = 1.00 min

Time on left represents time for first value in each row.

Time min					
2090.00	.33	.33	.33	.33	.33
2095.00	.33	.33	.33	.33	.33
2100.00	.33	.33	.33	.33	.33
2105.00	.33	.33	.33	.33	.33
2110.00	.33	.33	.33	.33	.33
2115.00	.33	.33	.33	.33	.33
2120.00	.33	.33	.32	.32	.32
2125.00	.32	.32	.32	.32	.32
2130.00	.32	.32	.32	.32	.32
2135.00	.32	.32	.32	.32	.32
2140.00	.32	.32	.32	.32	.32
2145.00	.32	.32	.32	.32	.32
2150.00	.32	.32	.32	.32	.32
2155.00	.32	.32	.32	.32	.32
2160.00	.32	.32	.32	.32	.32
2165.00	.32	.32	.32	.32	.32
2170.00	.32	.32	.32	.32	.32
2175.00	.31	.31	.31	.31	.31
2180.00	.31	.31	.31	.31	.31
2185.00	.31	.31	.31	.31	.31
2190.00	.31	.31	.31	.31	.31
2195.00	.31	.31	.31	.31	.31
2200.00	.31	.31	.31	.31	.31
2205.00	.31	.31	.31	.31	.31
2210.00	.31	.31	.31	.31	.31
2215.00	.31	.31	.31	.31	.31
2220.00	.31	.31	.31	.31	.31
2225.00	.31	.31	.31	.31	.31
2230.00	.31	.31	.31	.31	.31
2235.00	.31	.31	.31	.31	.31
2240.00	.31	.31	.31	.31	.31
2245.00	.31	.31	.31	.31	.31
2250.00	.31	.31	.31	.31	.31
2255.00	.31	.31	.31	.31	.31
2260.00	.31	.31	.31	.31	.31

2265.00		.31	.31	.31	.31	.31
2270.00		.31	.31	.31	.31	.31
2275.00		.31	.31	.31	.31	.31
2280.00		.31	.31	.31	.31	.30
2285.00		.30	.30	.30	.30	.30
2290.00		.30	.30	.30	.30	.30
2295.00		.30	.30	.30	.30	.30
2300.00		.30	.30	.30	.30	.30
2305.00		.30	.30	.30	.30	.30
2310.00		.30	.30	.30	.30	.30

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 10 yr

Page 13.77
Event: 10 yr

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					

2315.00		.30	.30	.30	.30	.30
2320.00		.30	.30	.30	.30	.30
2325.00		.30	.30	.30	.30	.30
2330.00		.30	.30	.30	.30	.30
2335.00		.30	.30	.30	.30	.30
2340.00		.30	.30	.30	.30	.30
2345.00		.30	.30	.30	.30	.30
2350.00		.30	.30	.30	.30	.30
2355.00		.30	.30	.30		

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 100 yr

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Event: 100 yr

DIVERTED HYDROGRAPH...
HYG file =
HYG ID = ROUTE 10
HYG Tag = 100 yr

Peak Discharge = 194.83 cfs
Time to Peak = 733.00 min
HYG Volume = 23.996 ac-ft

Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
246.00	.00	.00	.00	.00	.00
251.00	.01	.01	.01	.01	.01
256.00	.02	.02	.02	.03	.03
261.00	.03	.04	.04	.05	.05
266.00	.05	.05	.05	.05	.05
271.00	.05	.06	.06	.06	.06
276.00	.06	.06	.06	.06	.07
281.00	.07	.07	.07	.07	.07
286.00	.08	.08	.08	.08	.08
291.00	.08	.08	.08	.08	.08
296.00	.08	.08	.09	.09	.09
301.00	.09	.09	.09	.09	.09
306.00	.09	.09	.09	.10	.10
311.00	.10	.10	.10	.10	.10
316.00	.10	.10	.10	.10	.10
321.00	.10	.10	.10	.11	.11
326.00	.11	.11	.11	.11	.11
331.00	.11	.11	.11	.11	.11
336.00	.11	.12	.12	.12	.12
341.00	.12	.12	.12	.12	.12
346.00	.13	.13	.13	.13	.13
351.00	.13	.13	.13	.14	.14
356.00	.14	.14	.14	.14	.14
361.00	.15	.15	.15	.15	.15
366.00	.15	.15	.15	.15	.16
371.00	.16	.16	.16	.16	.16
376.00	.16	.16	.16	.16	.16
381.00	.16	.17	.17	.17	.17
386.00	.17	.17	.17	.17	.17
391.00	.17	.17	.18	.18	.18
396.00	.18	.18	.18	.18	.18

Date:

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Event: 100 yr

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.
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401.00	.18	.18	.18	.18	.18
406.00	.18	.19	.19	.19	.19
411.00	.19	.19	.19	.19	.19
416.00	.19	.19	.19	.20	.20
421.00	.20	.20	.20	.20	.20
426.00	.20	.20	.20	.20	.20
431.00	.20	.20	.20	.21	.21
436.00	.21	.21	.21	.21	.21
441.00	.21	.21	.21	.21	.22
446.00	.22	.22	.22	.22	.22
451.00	.22	.23	.23	.23	.23
456.00	.23	.23	.24	.24	.24
461.00	.24	.24	.24	.25	.25
466.00	.25	.25	.25	.25	.25
471.00	.25	.26	.26	.26	.26
476.00	.26	.26	.26	.26	.26
481.00	.26	.27	.27	.27	.27
486.00	.27	.27	.27	.27	.27
491.00	.28	.28	.28	.28	.28
496.00	.28	.28	.28	.28	.28
501.00	.29	.29	.29	.29	.29
506.00	.29	.29	.29	.29	.29
511.00	.30	.30	.30	.30	.30
516.00	.30	.30	.30	.30	.30
521.00	.30	.31	.31	.31	.31
526.00	.31	.31	.31	.31	.31
531.00	.32	.32	.32	.32	.32
536.00	.33	.33	.33	.34	.34
541.00	.35	.35	.35	.36	.36
546.00	.36	.37	.37	.38	.38
551.00	.38	.39	.39	.39	.40
556.00	.40	.40	.40	.41	.41
561.00	.41	.41	.42	.42	.42
566.00	.42	.43	.43	.43	.43
571.00	.43	.44	.44	.44	.44
576.00	.44	.45	.45	.45	.45
581.00	.45	.46	.46	.46	.46
586.00	.47	.47	.47	.47	.47
591.00	.67	1.12	1.54	1.93	2.29
596.00	2.63	2.95	3.25	3.52	3.78
601.00	4.03	4.26	4.48	4.68	4.88
606.00	5.06	5.24	5.41	5.57	5.72
611.00	5.87	6.02	6.16	6.29	6.42
616.00	6.55	6.68	6.80	6.93	7.05
621.00	7.16	7.28	7.39	7.50	7.61

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 100 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Time min	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
626.00	7.72	7.83	7.94	8.04	8.15
631.00	8.26	8.37	8.48	8.59	8.71
636.00	8.82	8.93	9.05	9.16	9.28
641.00	9.40	9.52	9.65	9.77	9.90
646.00	10.03	10.17	10.30	10.44	10.58
651.00	10.73	10.87	11.02	11.17	11.33
656.00	11.48	11.64	11.80	11.97	12.13
661.00	12.30	12.47	12.65	12.82	13.00
666.00	13.19	13.38	13.57	13.77	13.98
671.00	14.19	14.41	14.64	14.88	15.12
676.00	15.38	15.64	15.90	16.17	16.45
681.00	16.73	17.03	17.33	17.64	17.97
686.00	18.30	18.64	18.99	19.34	19.72
691.00	20.10	20.51	20.96	21.46	22.03
696.00	22.69	23.46	24.37	25.40	26.61
701.00	28.03	29.71	31.66	33.84	36.27
706.00	39.05	42.15	45.52	49.32	53.48
711.00	58.11	63.14	68.71	74.85	81.47
716.00	88.56	96.03	104.41	115.87	126.97
721.00	137.56	147.45	154.59	160.28	164.98
726.00	170.57	176.40	182.73	187.60	191.04
731.00	193.40	194.68	194.83	193.96	192.29
736.00	190.28	187.79	184.85	181.54	177.93
741.00	174.57	171.45	168.14	165.47	163.16
746.00	160.73	158.20	155.04	151.81	148.11
751.00	143.40	138.75	134.09	129.50	125.04
756.00	120.54	116.18	111.96	107.77	103.74
761.00	100.66	98.02	95.42	92.87	90.33
766.00	87.84	85.42	83.05	80.69	78.42
771.00	76.21	74.04	71.92	69.87	67.90
776.00	65.97	64.08	62.26	60.51	58.83
781.00	57.18	55.58	54.05	52.57	51.16
786.00	49.80	48.46	47.17	45.94	44.76
791.00	43.63	42.54	41.50	40.48	39.49
796.00	38.55	37.64	36.78	35.95	35.16
801.00	34.40	33.68	32.98	32.29	31.62
806.00	30.98	30.37	29.78	29.22	28.68
811.00	28.16	27.66	27.19	26.73	26.29
816.00	25.86	25.46	25.07	24.69	24.33
821.00	23.96	23.61	23.27	22.95	22.63
826.00	22.33	22.04	21.76	21.49	21.23
831.00	20.97	20.73	20.49	20.26	20.04

836.00	19.82	19.61	19.40	19.20	19.00
841.00	18.81	18.62	18.44	18.26	18.08
846.00	17.91	17.75	17.58	17.42	17.27

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 100 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)

Time min	Output Time increment = 1.00 min Time on left represents time for first value in each row.				
851.00	17.12	16.97	16.83	16.69	16.55
856.00	16.42	16.29	16.16	16.04	15.93
861.00	15.81	15.70	15.58	15.48	15.37
866.00	15.27	15.17	15.07	14.98	14.89
871.00	14.80	14.72	14.64	14.56	14.48
876.00	14.41	14.33	14.26	14.19	14.12
881.00	14.05	13.99	13.93	13.86	13.80
886.00	13.74	13.68	13.62	13.57	13.51
891.00	13.45	13.40	13.34	13.29	13.24
896.00	13.19	13.13	13.08	13.03	12.98
901.00	12.93	12.88	12.83	12.79	12.74
906.00	12.69	12.64	12.59	12.55	12.50
911.00	12.45	12.41	12.36	12.31	12.27
916.00	12.22	12.17	12.13	12.08	12.04
921.00	11.99	11.95	11.90	11.86	11.81
926.00	11.77	11.72	11.67	11.63	11.58
931.00	11.54	11.50	11.45	11.41	11.36
936.00	11.32	11.27	11.23	11.18	11.14
941.00	11.09	11.05	11.00	10.96	10.92
946.00	10.87	10.83	10.78	10.74	10.69
951.00	10.65	10.60	10.56	10.51	10.47
956.00	10.42	10.38	10.34	10.29	10.25
961.00	10.20	10.16	10.11	10.07	10.03
966.00	9.98	9.94	9.89	9.85	9.81
971.00	9.77	9.73	9.68	9.64	9.61
976.00	9.57	9.53	9.49	9.46	9.42
981.00	9.39	9.35	9.32	9.29	9.26
986.00	9.23	9.20	9.17	9.14	9.11
991.00	9.09	9.06	9.03	9.01	8.98
996.00	8.96	8.94	8.91	8.89	8.87
1001.00	8.85	8.82	8.80	8.78	8.76
1006.00	8.74	8.72	8.70	8.68	8.66
1011.00	8.64	8.62	8.61	8.59	8.57
1016.00	8.55	8.53	8.51	8.50	8.48

1021.00	8.46	8.44	8.43	8.41	8.39
1026.00	8.38	8.36	8.34	8.33	8.31
1031.00	8.29	8.28	8.26	8.24	8.23
1036.00	8.21	8.19	8.18	8.16	8.14
1041.00	8.13	8.11	8.10	8.08	8.06
1046.00	8.05	8.03	8.01	8.00	7.98
1051.00	7.97	7.95	7.93	7.92	7.90
1056.00	7.89	7.87	7.85	7.84	7.82
1061.00	7.81	7.79	7.77	7.76	7.74
1066.00	7.73	7.71	7.70	7.68	7.66
1071.00	7.65	7.63	7.62	7.60	7.58

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 100 yr

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Event: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1076.00	7.57	7.55	7.54	7.52	7.50
1081.00	7.49	7.47	7.46	7.44	7.42
1086.00	7.41	7.39	7.38	7.36	7.34
1091.00	7.33	7.31	7.30	7.28	7.26
1096.00	7.25	7.23	7.21	7.20	7.18
1101.00	7.16	7.15	7.13	7.11	7.10
1106.00	7.08	7.06	7.05	7.03	7.02
1111.00	7.00	6.98	6.97	6.95	6.94
1116.00	6.92	6.90	6.89	6.87	6.85
1121.00	6.84	6.82	6.81	6.79	6.77
1126.00	6.76	6.74	6.73	6.71	6.69
1131.00	6.68	6.66	6.65	6.63	6.61
1136.00	6.60	6.58	6.56	6.55	6.53
1141.00	6.52	6.50	6.48	6.47	6.45
1146.00	6.44	6.42	6.40	6.39	6.37
1151.00	6.36	6.34	6.32	6.31	6.29
1156.00	6.28	6.26	6.24	6.23	6.21
1161.00	6.19	6.18	6.16	6.15	6.13
1166.00	6.11	6.10	6.08	6.07	6.05
1171.00	6.03	6.02	6.00	5.99	5.97
1176.00	5.95	5.94	5.92	5.90	5.89
1181.00	5.87	5.86	5.84	5.82	5.81
1186.00	5.79	5.78	5.76	5.74	5.73
1191.00	5.71	5.69	5.68	5.66	5.65
1196.00	5.63	5.61	5.60	5.58	5.57
1201.00	5.55	5.53	5.52	5.50	5.49

1206.00	5.47	5.45	5.44	5.42	5.41
1211.00	5.39	5.38	5.36	5.35	5.34
1216.00	5.32	5.31	5.30	5.29	5.27
1221.00	5.26	5.25	5.24	5.23	5.22
1226.00	5.21	5.20	5.19	5.18	5.18
1231.00	5.17	5.16	5.15	5.15	5.14
1236.00	5.13	5.13	5.12	5.11	5.11
1241.00	5.10	5.10	5.09	5.08	5.08
1246.00	5.07	5.07	5.06	5.06	5.06
1251.00	5.05	5.05	5.04	5.04	5.03
1256.00	5.03	5.02	5.02	5.02	5.01
1261.00	5.01	5.01	5.00	5.00	4.99
1266.00	4.99	4.99	4.98	4.98	4.98
1271.00	4.97	4.97	4.97	4.96	4.96
1276.00	4.96	4.95	4.95	4.95	4.94
1281.00	4.94	4.94	4.93	4.93	4.93
1286.00	4.92	4.92	4.92	4.91	4.91
1291.00	4.91	4.90	4.90	4.90	4.89
1296.00	4.89	4.89	4.88	4.88	4.88

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

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Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 100 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1301.00	4.87	4.87	4.87	4.86	4.86
1306.00	4.86	4.86	4.85	4.85	4.85
1311.00	4.84	4.84	4.84	4.83	4.83
1316.00	4.83	4.82	4.82	4.82	4.81
1321.00	4.81	4.81	4.80	4.80	4.80
1326.00	4.80	4.79	4.79	4.79	4.78
1331.00	4.78	4.78	4.77	4.77	4.77
1336.00	4.76	4.76	4.76	4.75	4.75
1341.00	4.75	4.74	4.74	4.74	4.74
1346.00	4.73	4.73	4.73	4.72	4.72
1351.00	4.72	4.71	4.71	4.71	4.70
1356.00	4.70	4.70	4.69	4.69	4.69
1361.00	4.68	4.68	4.68	4.67	4.67
1366.00	4.67	4.67	4.66	4.66	4.66
1371.00	4.65	4.65	4.65	4.64	4.64
1376.00	4.64	4.63	4.63	4.63	4.62
1381.00	4.62	4.62	4.61	4.61	4.61
1386.00	4.61	4.60	4.60	4.60	4.59

1391.00	4.59	4.59	4.58	4.58	4.58
1396.00	4.57	4.57	4.57	4.56	4.56
1401.00	4.56	4.55	4.55	4.55	4.54
1406.00	4.54	4.54	4.54	4.53	4.53
1411.00	4.53	4.52	4.52	4.52	4.51
1416.00	4.51	4.51	4.50	4.50	4.50
1421.00	4.49	4.49	4.49	4.48	4.48
1426.00	4.48	4.47	4.47	4.47	4.47
1431.00	4.46	4.46	4.46	4.45	4.45
1436.00	4.45	4.44	4.44	4.44	4.43
1441.00	4.43	4.42	4.41	4.39	4.37
1446.00	4.33	4.28	4.22	4.14	4.05
1451.00	3.95	3.84	3.73	3.60	3.48
1456.00	3.35	3.22	3.09	2.96	2.83
1461.00	2.70	2.58	2.45	2.33	2.22
1466.00	2.10	1.99	1.89	1.78	1.69
1471.00	1.59	1.50	1.41	1.33	1.25
1476.00	1.18	1.11	1.04	.98	.92
1481.00	.86	.81	.76	.71	.66
1486.00	.62	.58	.55	.51	.48
1491.00	.47	.47	.47	.47	.47
1496.00	.47	.47	.47	.47	.47
1501.00	.47	.47	.47	.47	.47
1506.00	.47	.47	.47	.47	.47
1511.00	.47	.47	.47	.47	.47
1516.00	.47	.47	.47	.47	.47
1521.00	.47	.47	.47	.47	.47

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

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Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 100 yr

File.... F:\PJJ HM AsBuilt\

Storm... Type II 24hr Tag: 100 yr

Time min	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = 1.00 min				
	Time on left represents time for first value in each row.				
1526.00	.47	.47	.47	.47	.47
1531.00	.47	.47	.47	.47	.47
1536.00	.47	.47	.47	.47	.47
1541.00	.47	.47	.47	.47	.47
1546.00	.47	.47	.46	.46	.46
1551.00	.46	.46	.46	.46	.46
1556.00	.46	.46	.46	.46	.46
1561.00	.46	.46	.46	.46	.46
1566.00	.46	.46	.46	.46	.46
1571.00	.46	.46	.46	.46	.46

1576.00	.46	.46	.46	.46	.46
1581.00	.46	.46	.46	.46	.46
1586.00	.46	.46	.46	.46	.46
1591.00	.46	.46	.46	.46	.46
1596.00	.46	.46	.46	.46	.46
1601.00	.46	.46	.45	.45	.45
1606.00	.45	.45	.45	.45	.45
1611.00	.45	.45	.45	.45	.45
1616.00	.45	.45	.45	.45	.45
1621.00	.45	.45	.45	.45	.45
1626.00	.45	.45	.45	.45	.45
1631.00	.45	.45	.45	.45	.45
1636.00	.45	.45	.45	.45	.45
1641.00	.45	.45	.45	.45	.45
1646.00	.45	.45	.45	.45	.45
1651.00	.45	.45	.45	.45	.45
1656.00	.45	.45	.45	.44	.44
1661.00	.44	.44	.44	.44	.44
1666.00	.44	.44	.44	.44	.44
1671.00	.44	.44	.44	.44	.44
1676.00	.44	.44	.44	.44	.44
1681.00	.44	.44	.44	.44	.44
1686.00	.44	.44	.44	.44	.44
1691.00	.44	.44	.44	.44	.44
1696.00	.44	.44	.44	.44	.44
1701.00	.44	.44	.44	.44	.44
1706.00	.44	.44	.44	.44	.44
1711.00	.44	.44	.44	.44	.44
1716.00	.43	.43	.43	.43	.43
1721.00	.43	.43	.43	.43	.43
1726.00	.43	.43	.43	.43	.43
1731.00	.43	.43	.43	.43	.43
1736.00	.43	.43	.43	.43	.43
1741.00	.43	.43	.43	.43	.43
1746.00	.43	.43	.43	.43	.43

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 100 yr

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Event: 100 yr

HYDROGRAPH ORDINATES (cfs)					
Output Time increment = 1.00 min					
Time min	Time on left represents time for first value in each row.				
1751.00	.43	.43	.43	.43	.43
1756.00	.43	.43	.43	.43	.43

1761.00	.43	.43	.43	.43	.42
1766.00	.42	.42	.42	.42	.42
1771.00	.42	.42	.42	.42	.42
1776.00	.42	.42	.42	.42	.42
1781.00	.42	.42	.42	.42	.42
1786.00	.42	.42	.42	.42	.42
1791.00	.42	.42	.42	.42	.42
1796.00	.42	.42	.42	.42	.42
1801.00	.42	.42	.42	.42	.42
1806.00	.42	.42	.42	.42	.41
1811.00	.41	.41	.41	.41	.41
1816.00	.41	.41	.41	.41	.41
1821.00	.41	.41	.41	.41	.41
1826.00	.41	.41	.41	.41	.41
1831.00	.41	.41	.41	.41	.41
1836.00	.41	.41	.41	.41	.41
1841.00	.41	.41	.41	.41	.41
1846.00	.41	.41	.41	.41	.41
1851.00	.41	.41	.41	.41	.41
1856.00	.40	.40	.40	.40	.40
1861.00	.40	.40	.40	.40	.40
1866.00	.40	.40	.40	.40	.40
1871.00	.40	.40	.40	.40	.40
1876.00	.40	.40	.40	.40	.40
1881.00	.40	.40	.40	.40	.40
1886.00	.40	.40	.40	.40	.40
1891.00	.40	.40	.40	.40	.40
1896.00	.40	.40	.40	.40	.40
1901.00	.40	.40	.39	.39	.39
1906.00	.39	.39	.39	.39	.39
1911.00	.39	.39	.39	.39	.39
1916.00	.39	.39	.39	.39	.39
1921.00	.39	.39	.39	.39	.39
1926.00	.39	.39	.39	.39	.39
1931.00	.39	.39	.39	.39	.39
1936.00	.39	.39	.39	.39	.39
1941.00	.39	.39	.39	.39	.39
1946.00	.38	.38	.38	.38	.38
1951.00	.38	.38	.38	.38	.38
1956.00	.38	.38	.38	.38	.38
1961.00	.38	.38	.38	.38	.38
1966.00	.38	.38	.38	.38	.38
1971.00	.38	.38	.38	.38	.37

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\

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Event: 100 yr

Storm... Type II 24hr Tag: 100 yr

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
1976.00	.37	.37	.37	.37	.37	.37
1981.00	.37	.37	.37	.37	.37	.37
1986.00	.37	.37	.37	.37	.37	.37
1991.00	.37	.37	.37	.37	.37	.37
1996.00	.37	.37	.37	.37	.37	.37
2001.00	.37	.37	.37	.36	.36	.36
2006.00	.36	.36	.36	.36	.36	.36
2011.00	.36	.36	.36	.36	.36	.36
2016.00	.36	.36	.36	.36	.36	.36
2021.00	.36	.36	.36	.36	.36	.36
2026.00	.36	.36	.36	.36	.36	.36
2031.00	.36	.36	.36	.35	.35	.35
2036.00	.35	.35	.35	.35	.35	.35
2041.00	.35	.35	.35	.35	.35	.35
2046.00	.35	.35	.35	.35	.35	.35
2051.00	.35	.35	.35	.35	.35	.35
2056.00	.35	.35	.35	.35	.35	.35
2061.00	.35	.35	.35	.35	.35	.34
2066.00	.34	.34	.34	.34	.34	.34
2071.00	.34	.34	.34	.34	.34	.34
2076.00	.34	.34	.34	.34	.34	.34
2081.00	.34	.34	.34	.34	.34	.34
2086.00	.34	.34	.34	.34	.34	.34
2091.00	.34	.34	.34	.34	.34	.34
2096.00	.34	.33	.33	.33	.33	.33
2101.00	.33	.33	.33	.33	.33	.33
2106.00	.33	.33	.33	.33	.33	.33
2111.00	.33	.33	.33	.33	.33	.33
2116.00	.33	.33	.33	.33	.33	.33
2121.00	.33	.33	.33	.33	.33	.33
2126.00	.33	.33	.33	.33	.33	.32
2131.00	.32	.32	.32	.32	.32	.32
2136.00	.32	.32	.32	.32	.32	.32
2141.00	.32	.32	.32	.32	.32	.32
2146.00	.32	.32	.32	.32	.32	.32
2151.00	.32	.32	.32	.32	.32	.32
2156.00	.32	.32	.32	.32	.32	.32
2161.00	.32	.32	.32	.32	.32	.32
2166.00	.32	.32	.32	.32	.32	.32
2171.00	.32	.32	.32	.32	.32	.32
2176.00	.32	.32	.32	.32	.32	.32
2181.00	.32	.32	.31	.31	.31	.31
2186.00	.31	.31	.31	.31	.31	.31
2191.00	.31	.31	.31	.31	.31	.31

2196.00 | .31 .31 .31 .31 .31

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Type.... Diverted Hydrograph
Name.... ROUTE 10
File.... F:\PJJ HM AsBuilt\
Storm... Type II 24hr Tag: 100 yr

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Event: 100 yr

HYDROGRAPH ORDINATES (cfs)						
Output Time increment = 1.00 min						
Time min	Time on left represents time for first value in each row.					
2201.00	.31	.31	.31	.31	.31	.31
2206.00	.31	.31	.31	.31	.31	.31
2211.00	.31	.31	.31	.31	.31	.31
2216.00	.31	.31	.31	.31	.31	.31
2221.00	.31	.31	.31	.31	.31	.31
2226.00	.31	.31	.31	.31	.31	.31
2231.00	.31	.31	.31	.31	.31	.31
2236.00	.31	.31	.31	.31	.31	.31
2241.00	.31	.31	.31			

S/N: C21F01C070CE Bowers Engineering Inc
PondPack Ver: Compute Time:

Date:



Appendix A

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----- T -----
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----- W -----
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S/N:

PondPack Ver:

Compute Time:

Date:

