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MEMORANDUM

DATE: January 3, 2017

TO: Gina Ross, PE, City of Albuquerque

FROM: Rifka Wine, PE *RW*

SUBJECT: South Broadway Hydraulic Analysis

Background

The City of Albuquerque (City) has experienced flooding in the neighborhood to the south of the South Broadway Detention Basin. As a result, the City has contracted with Bohannon Huston, Inc. (BHI) to evaluate the flooding and develop recommendations to alleviate the flooding. This technical memorandum summarizes the hydraulic modeling analysis of the storm drain system between the South Broadway Detention Basin and the Commercial at Bell Pump Station in Albuquerque, New Mexico. As part of this project, BHI completed records research and field survey of the existing storm drains in the subject area followed by hydrologic and hydraulic analysis and the development of recommended improvements to the system to alleviate flooding in the area. This memorandum summarizes the analysis and recommendations.

The storm drain system in this section of the city conveys stormwater generated on the streets above, to the north and east, that enters the pipe network via a series of inlets which drains to the Bell Pump Station. The flow from the Bell Pump Station is then pumped to a 54-inch storm drain force main which discharges to the Rio Grande at Bridge Blvd, see Figure 1 – Existing System.

The South Broadway Detention Basin was modified in 2015, and with this reconstruction, the headwall at the southern edge of the pond (just above the pond's outlet) was raised by 1 foot to increase the storage capacity of the pond. Since that reconstruction, city personnel stated that they had received reports of street flooding during heavy rainfall events in subject area and believe the increased head on the pond was responsible for the flooding.

Hydrology

The hydrology used for this study was taken from the South Broadway Drainage Management Plan (DMP) by URS, Inc. All flows are based on the 100-year, 24-hour storm event and assume fully developed conditions.

Hydraulic Analysis

As part of the modeling effort, BHI performed a field survey of the existing storm drain infrastructure in the project area, which included collecting rim and invert elevations for all applicable storm drain inlets and manholes along with sizes of inlets and pipes. BHI survey data was entered into a Civil 3D drawing, and this file was the basis for constructing the storm drain network for the area between Bell Pump Station and the South Broadway Detention Basin. The

Civil 3D pipe network was then exported to Autodesk Storm and Sanitary Analysis 2016, which runs the EPA Storm Water Management Model (SWMM) 5 engine, in order to perform the storm drain hydraulic modeling, using SWMM.

The survey data indicated the presence of adverse pipe slopes within the network, and as such the model needed to be run under dynamic wave settings (full use of the St. Venant flow equations) which can account for backflow and reverse flow conditions within the pipes. Initially the SWMM model was run using a constant flow (no inflow hydrographs) with the water level in the South Broadway Pond set at full depth, in order to quickly assess the impacts of the pond if full given the recent headwall modifications that increase the head (water depth) in the pond. However, after subsequent analysis and additional discussion with the City, it was decided to use inflow hydrographs for both the flow into the South Broadway Pond (from other areas) and from the subject area that flows by gravity into the Bell Pump Station to develop a more representative model of the system. The SWMM model input hydrographs, pump curves, and survey information are included in Appendix B.

Existing Conditions Model Runs

Since the URS model did not supply sufficient detail in the subject area, BHI delineated contributing basins and flow paths for the area between Broadway Blvd. to the east, the South Broadway Detention Basin to the north, the railroad fence on the west boundary at Commercial Blvd, and Bell Ave. to the south. BHI used the Modified Rational Method in the City Development Process Manual (DPM) to compute 100-year hydrographs for import into SWMM. The Modified Rational Method calculations are included in Appendix A. The results of the SWMM model showed flooding occurred in a number of locations throughout the subject area (see Appendix C for the model results of the existing system). At locations where the hydraulic grade line came out of the ground, the model includes street links to route the flows. The locations where the hydraulic grade line came out of the ground (causing manhole covers to pop and a total of 2 ac-ft of flooding in the streets above, including some areas where flooding extends outside of the street) are shown in Figure 1 and summarized below:

- Manhole No. K14944 – Intersection of Commercial and Pacific
- Manhole No. K14954 – Intersection of Pacific and William
- Manhole No. K14952 – Intersection of Cromwell and William
- Manhole No. L14052 – William between Cromwell and Garfield
- Manhole No. L14053 – John between Cromwell and Garfield
- Manhole No. L14041 – Intersection of Garfield and Commercial

The South Broadway Pond inflow hydrograph from the existing South Broadway DMP SWMM model exceeded the stage-storage-discharge capacity of the existing pond and primary outlet. As such, the emergency spillway was added to allow flow in excess of the pond capacity to be removed from the system via the rectangular, concrete-lined spillway to assess overflow flooding that would result. This emergency spillway flow causes 9 ac-ft of flooding on Commercial.

Development of Drainage Improvement Options

Initial drainage infrastructure improvements, to alleviate flooding, focused on flap gates and bolting down manhole lids. This was shown not to alleviate flooding, so pipe sizes were increased throughout the system in the model as summarized in Table 1 below. However, after performing a number of iterations of varying pipe sizes, it became clear that pipe size adjustments alone could not eliminate all flooding areas.

Table 1: SWMM Model Scenarios

Model Scenario	Flap Gates?	Manholes Bolted?	Description	Junctions Flooded
Scenario #1	No	No	SD inlets added to MH K14944 and MH K14951.	K14954, DI #2046, K14941, K14952, L14052, L14053, L14042
Scenario #2	Yes	No	Flap gates added to DI #2046 and DI #2024.	K14954, DI #2046, K14941, K14952, L14052, L14053, L14042
Scenario #3	Yes	Yes	Same as Scenario #2 with K14954, K14945, K14944, K14951 and K14953 bolted down.	DI #2046, L14052, L14053, L14042, L14141, and L14143
Upsize #1	No	No	Same as Scenario #1 with links SDP11, SDP12, SDP13, SDP19, SDP25, SDP24, SDP7, SDP8 up-sized based on COA PDF.	DI #2046, L14042, L14051, L14052, and L14053
Upsize #2	No	No	Same as Upsize #1 with links SDP3, SDP4, and SDP5 up-sized based on COA PDF.	DI #2046, L14042, L14051, L14052, and L14053
Upsize #3	No	No	Same as Option #1 with links SDP4, SDP5, SDP6, SDP7, and SDP8 up-sized to 48".	L14042, L14052, and L14053
Upsize #4	No	No	Same as Upsize #3 with a 24" link along Cromwell connecting Commercial and William and link SDP27 up-sized to 24".	L14042, L14052, and L14053

Additional Scenarios:

A number of additional scenarios were also run that included creating additional detention storage and adding new storm drains.

A secondary outlet to the South Broadway Detention Basin was initially added down John St, connecting to the existing 12-inch storm drain at John and Cromwell. A number of sizes were

tried; however, this secondary outlet is not recommended. If the Bell Pump Station failed, a significantly larger amount of water from the South Broadway Detention Basin would flood the project area. Additionally, an option to raise the wall at the South Broadway Detention Facility was evaluated; however, this wall would need to be over 4 feet higher than the current wall height to remove the flooding caused by the spillway flow.

Recommended Improvements

Based on the numerous scenarios considered and discussions with the City, the following final recommended improvements were developed. The final recommended solution is comprised of additional ponding and replacing some of the existing storm drain pipe as described below and shown in Figure 2:

Proposed Detention Pond at South Broadway Park

An additional 3 ac-ft of storage was added to the system at South Broadway Park with an 18-inch storm drain discharging to the existing 36-inch storm drain at William and Lewis.

Additional Detention Pond Adjacent to South Broadway Detention Facility

An additional detention pond with 20 ac-ft of storage was added to the system on the property to the north of the existing South Broadway Detention Facility with a 60-inch storm drain connecting the inverts of the two ponds under Commercial.

Storm Drain Pipe Upgrades

In addition, in order to remove all the flooding from the system, a small section of 18-inch existing storm drain at the intersection of Commercial and Garfield will need to be replaced with 24-inch storm drain, and the existing 12-inch storm drain in John St will need to be replaced with 24-inch to 30-inch storm drain and lowered vertically between Cromwell and Garfield.

The SWMM model for the recommended improvements is included in Appendix C. The improvements described above remove flooding from the streets downstream of the South Broadway Detention Basin, as well as the flooding caused by overtopping of the South Broadway Detention Basin.

Design Considerations

The following summarizes the invert elevations that were modeled for new connections and provides guidance for when the improvements are designed:

- Expansion of South Broadway Detention Facility: 4938.42 (DP0)
- Replacement 24-inch @ John and Cromwell: 4943.86 (DP1)
- Replacement 24-inch @ John and Garfield: 4942.28 (DP2)
- South Broadway Park Storage Bottom: 4941.5 (DP3)
- New 18-inch outlet @ South Broadway Park: 4941.5 (DP4)
- New 18-inch outlet @ William and Lewis: 4939.08 (DP5)

Conclusion

The improvements described above will remove the 2 ac-ft of flooding from the streets downstream of the South Broadway Detention Basin. These improvements will also remove the 9 ac-ft of flooding caused by overtopping of the South Broadway Detention Basin.

REW/AQC/le

Attachments

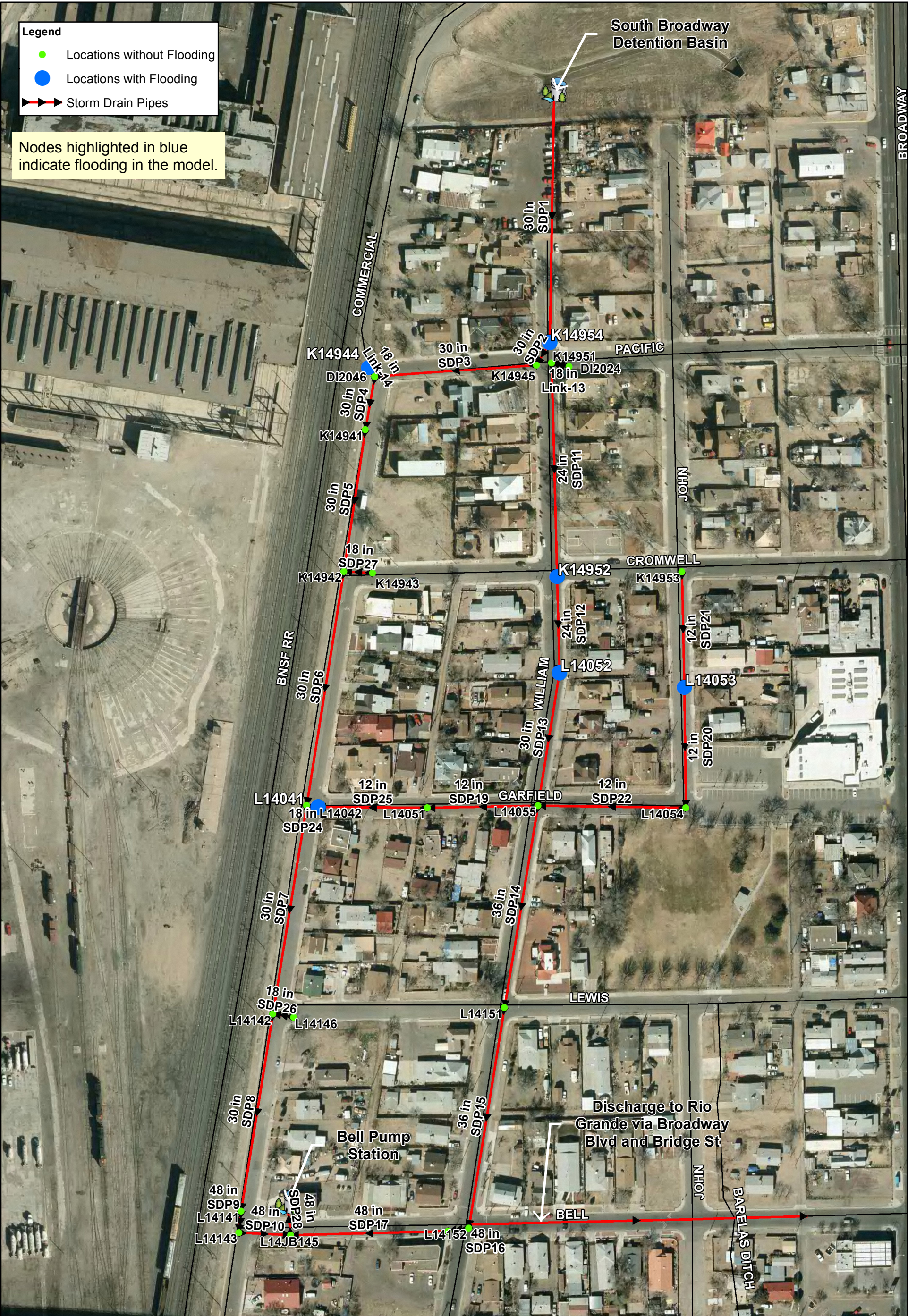
Figure 1 – Existing System

Figure 2 – Recommended Improvements

Appendix A – Modified Rational Method Calculations

Appendix B – SWMM Model Input Data

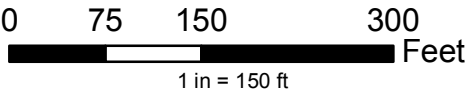
Appendix C – SWMM Models



Coordinate System: NAD 1983 StatePlane New Mexico Central FIPS 3002 Feet
Projection: Transverse Mercator
Datum: North American 1983



Figure 1: Existing System

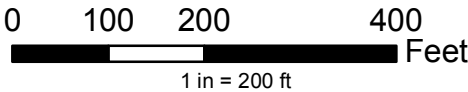




Coordinate System: NAD 1983 StatePlane New Mexico Central FIPS 3002 Feet
Projection: Transverse Mercator
Datum: North American 1983



Figure 2:
Recommended Improvements



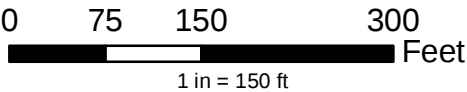
APPENDIX A
MODIFIED RATIONAL METHOD CALCULATIONS



Coordinate System: NAD 1983 StatePlane New Mexico Central FIPS 3002 Feet
Projection: Transverse Mercator
Datum: North American 1983



Basin Map



South Broadway SWMM Model
Proposed Developed Conditions Basin Data Table

This table is based on the DPM Section 22.2, Zone: 2

Basin ID	Area	Area	Land Treatment Percentages				Q(100yr)	Q(100yr)	V(100yr)	V _(100yr-6hr)	V _(100yr-24hr)	Q(2yr)	Q(2yr)	WT E	V _(2yr-6hr)	V _(2yr-24hr)
	(SQ. FT)	(AC.)	A	B	C	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)
CURRENT ONSITE BASINS																
B1	101391	2.33	0.0%	0.0%	20.0%	80.0%	4.39	10.21	1.92	16239	18943	1.61	3.74	0.66	5593	6767
B2	238638	5.48	0.0%	0.0%	50.0%	50.0%	3.92	21.48	1.63	32316	36293	1.23	6.74	0.47	9347	11073
B3	74360	1.71	0.0%	0.0%	60.0%	40.0%	3.76	6.43	1.53	9456	10448	1.10	1.88	0.41	2516	2946
B4	80904	1.86	0.0%	20.0%	30.0%	50.0%	3.75	6.96	1.56	10484	11832	1.13	2.09	0.44	2993	3579
B5	166316	3.82	0.0%	10.0%	40.0%	50.0%	3.83	14.64	1.59	22037	24809	1.18	4.50	0.46	6334	7537
B6	133318	3.06	0.0%	10.0%	40.0%	50.0%	3.83	11.73	1.59	17665	19887	1.18	3.61	0.46	5077	6042
B7	103914	2.39	0.0%	10.0%	40.0%	50.0%	3.83	9.15	1.59	13769	15501	1.18	2.81	0.46	3957	4709
B8	98935	2.27	0.0%	10.0%	40.0%	50.0%	3.83	8.71	1.59	13109	14758	1.18	2.68	0.46	3768	4483
B9	128439	2.95	0.0%	20.0%	30.0%	50.0%	3.75	11.05	1.56	16644	18784	1.13	3.32	0.44	4752	5681
B10	57119	1.31	0.0%	10.0%	40.0%	50.0%	3.83	5.03	1.59	7568	8520	1.18	1.54	0.46	2175	2588
B11	231926	5.32	0.0%	30.0%	40.0%	30.0%	3.35	17.84	1.32	25551	27870	0.82	4.38	0.30	5856	6863
B12	83856	1.93	0.0%	10.0%	50.0%	40.0%	3.68	7.08	1.49	10419	11537	1.05	2.03	0.39	2746	3232
B13	301213	6.91	0.0%	10.0%	40.0%	50.0%	3.83	26.51	1.59	39911	44931	1.18	8.15	0.46	11471	13650
TOTAL	1800330	41.33	-	-	-	-	-	156.81	-	235166	264112	-	47.46	-	66587	79149
CURRENT OFFSITE BASINS																
OS1	0	0.00	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0	0	0.00	0.00	0.00	0	0
OS2	0	0.00	0.0%	0.0%	0.0%	0.0%	0.00	0.00	0.00	0	0	0.00	0.00	0.00	0	0
TOTAL	0	0.00	-	-	-	-	-	0.00	-	0	0	-	0.00	-	0	0

Basin ID	Area (ac)	Area Land Treatment D (ac)	Q _p (cfs)	t _c (hr)	Excess Precipitation (in.)	t _p (hr)	t _p + 0.25*A _D /A _T (hr)	t _B (hr)
B1	2.33	1.86	10.21	0.2	1.92	0.21	0.41	0.72
B2	5.48	2.74	21.48	0.2	1.63	0.23	0.36	0.75
B3	1.71	0.68	6.43	0.2	1.53	0.24	0.34	0.75
B4	1.86	0.93	6.96	0.2	1.56	0.23	0.36	0.75
B5	3.82	1.91	14.64	0.2	1.59	0.23	0.36	0.75
B6	3.06	1.53	11.73	0.2	1.59	0.23	0.36	0.75
B7	2.39	1.19	9.15	0.2	1.59	0.23	0.36	0.75
B8	2.27	1.14	8.71	0.2	1.59	0.23	0.36	0.75
B9	2.95	1.47	11.05	0.2	1.56	0.23	0.36	0.75
B10	1.31	0.66	5.03	0.2	1.59	0.23	0.36	0.75
B11	5.32	1.60	17.84	0.2	1.32	0.25	0.32	0.76
B12	1.93	0.77	7.08	0.2	1.49	0.24	0.34	0.75
B13	6.91	3.46	26.51	0.2	1.59	0.23	0.36	0.75

Values from Sheet 2 "COA_DPM_100yr, 6-hr"

Auto-calculated

Assumes minimum t_c = 12 min. (0.2 hr)

APPENDIX B
SWMM MODEL INPUT DATA

Project Title: COA South Broadway Drainage Analysis

BHI Project #: 20160354

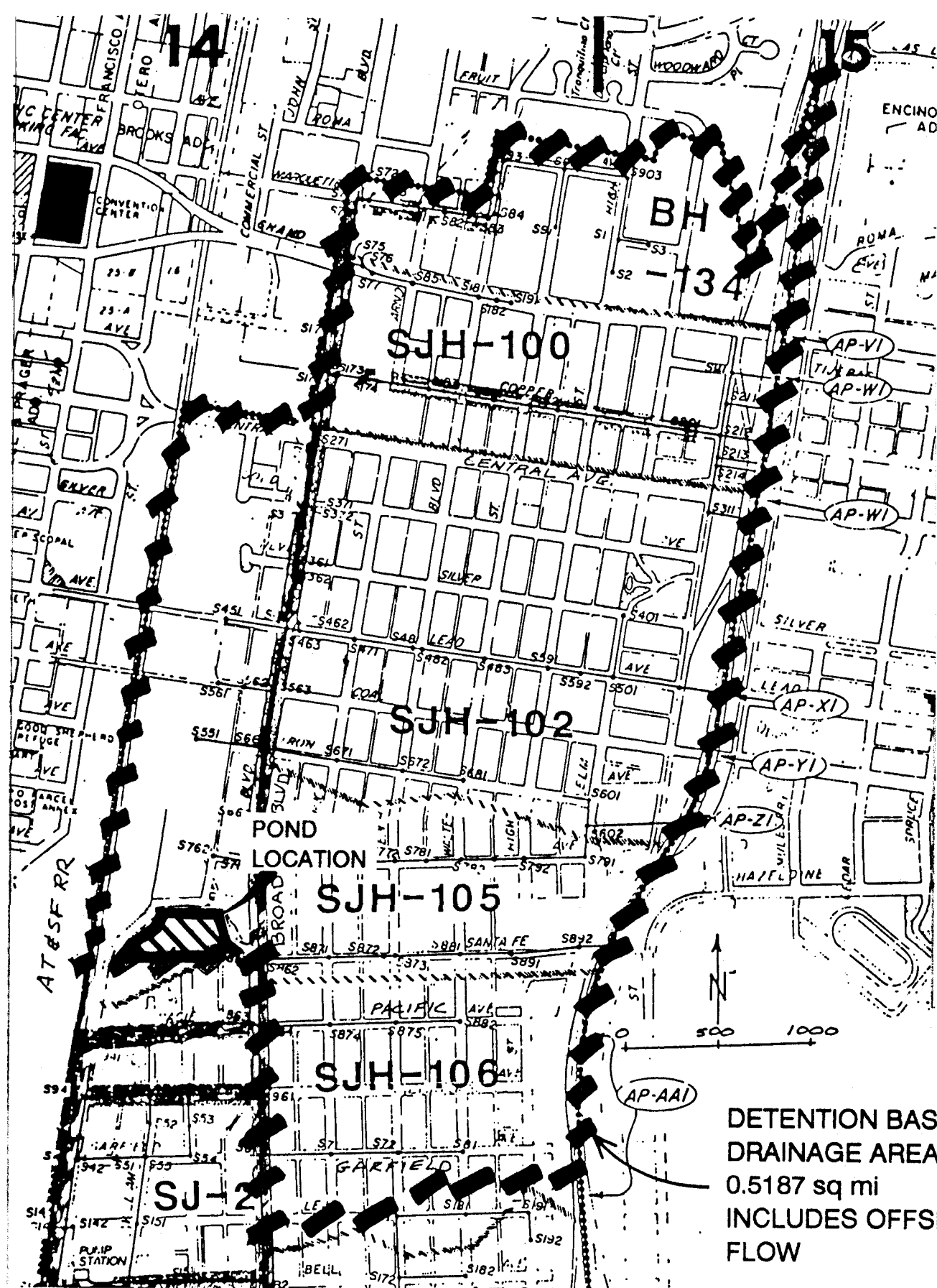
Document: Notes on General Assumptions for Pipe Network Layout

Date: 3-3-2016

Design Engineer: Cameron Herrington

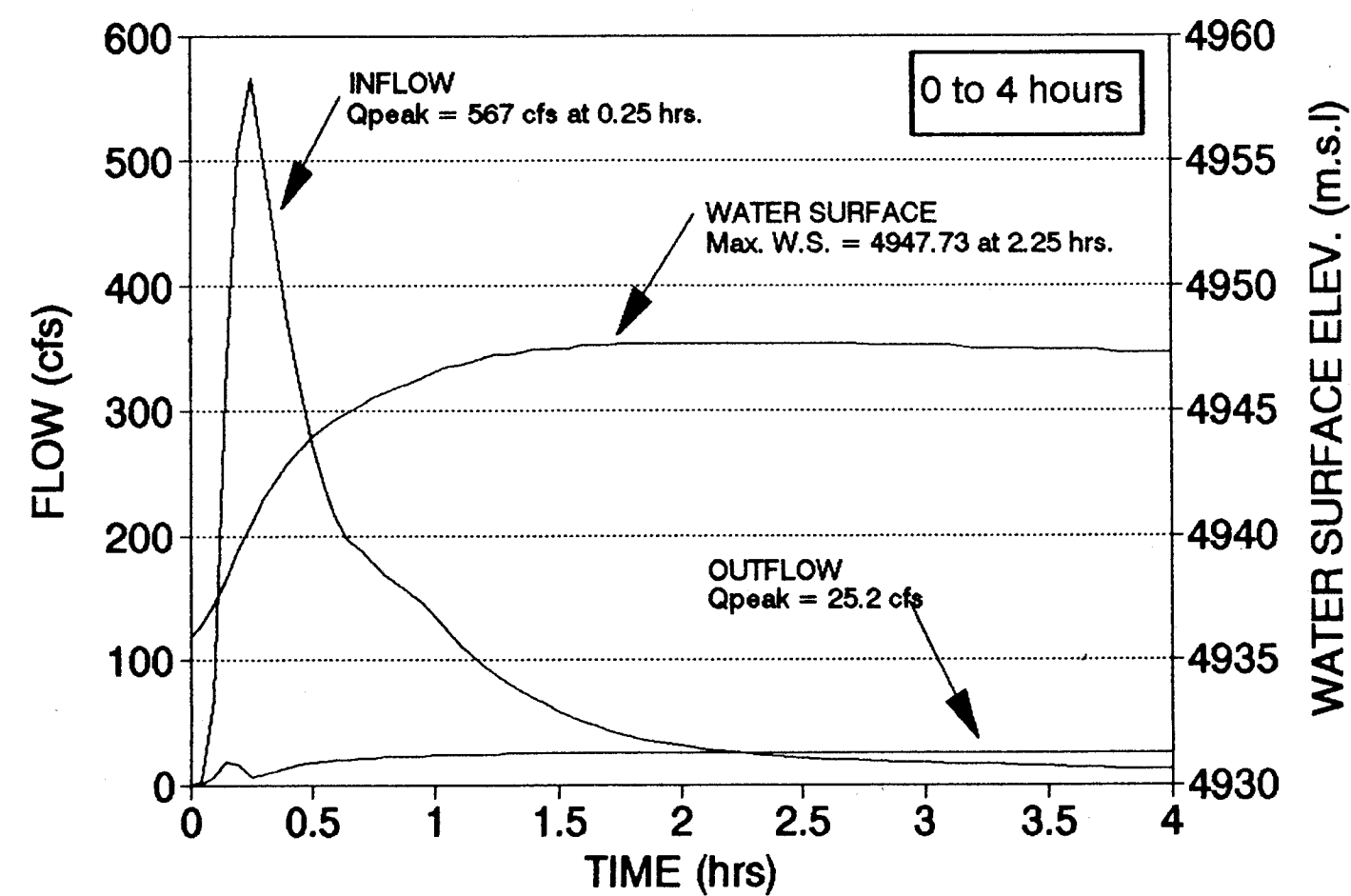
Assumptions Made:

1. **Pipe SDP24** from SDMH42 to SDMH41 – Survey was unable to reach the pipe and did not record the invert at SDMH41. Solution was to obtain the pipe's slope ($S=0.0012$) from the record drawing (COA #08-541-54, Sheet 9) and to calculate the invert based on the centerline distance between the two manholes.
2. **Pipe SDP27** from SDMH943 to SDMH942 – Survey was unable to obtain the pipe invert at SDMH942. Solution was to obtain the pipe's slope ($S=0.004$) from the record drawing (COA #26-4165.90-93, Sheet 11) and to calculate the invert based on the centerline distance between the two manholes.
3. **Pipe SDP26** from SDMH146 to SDMH142 – Survey was unable to obtain the pipe invert at SDMH142 and the pipe slope was not shown in COA record drawings. Solution was to assume the pipe carried the same slope as SDP24 ($S=0.0012$; Item #1 above) since both manholes are located adjacent to Commercial Street and near each other, and to calculate the invert based on the centerline distance between the two manholes on each of its ends.
4. **Pipe SDP25** from SDMH42 to SDMH51 – Survey was unable to reach the pipe and did not record the invert at SDMH42. Solution was to obtain the pipe's slope ($S=0.0012$) from the record drawing (COA #08-541-54, Sheet 9) and to calculate the invert based on the centerline distance between the two manholes.
5. **Pipe SDP19** from SDMH51 to SDMH55 – Survey was unable to reach the pipe and did not record the invert at SDMH55. Solution was to obtain the pipe's slope ($S=0.0012$) from the record drawing (COA #08-541-54, Sheet 9) and to calculate the invert based on the centerline distance between the two manholes.
6. **Pipe SDP22** from SDMH54 to SDMH55 – Survey was unable to reach the pipe and did not record the invert at SDMH55. Solution was to obtain the pipe's slope ($S=0.0012$) from the record drawing (COA #08-541-54, Sheet 9) and to calculate the invert based on the centerline distance between the two manholes.

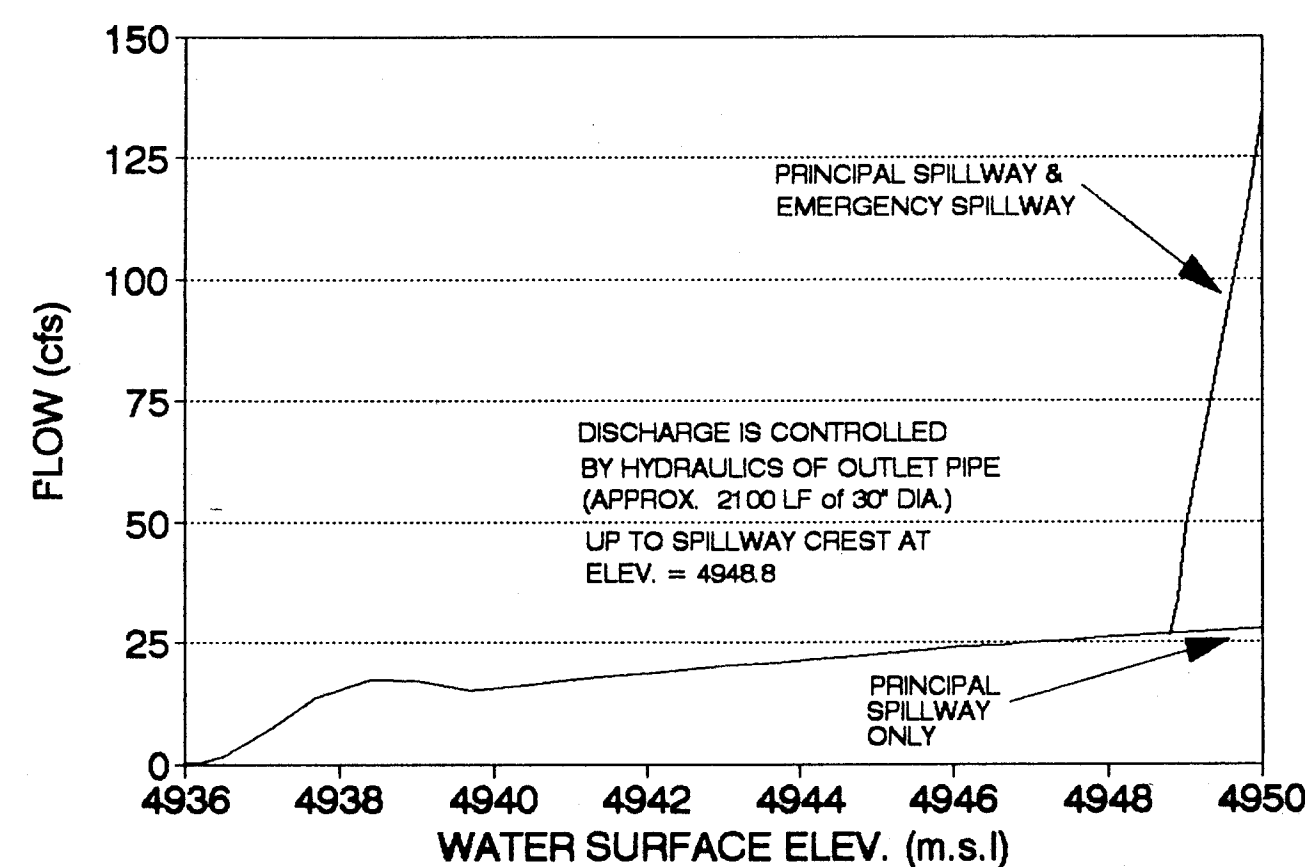


DRAINAGE AREA MAP

100-YR 24-HR STORM INFLOW, OUTFLOW, AND WATER SURFACE



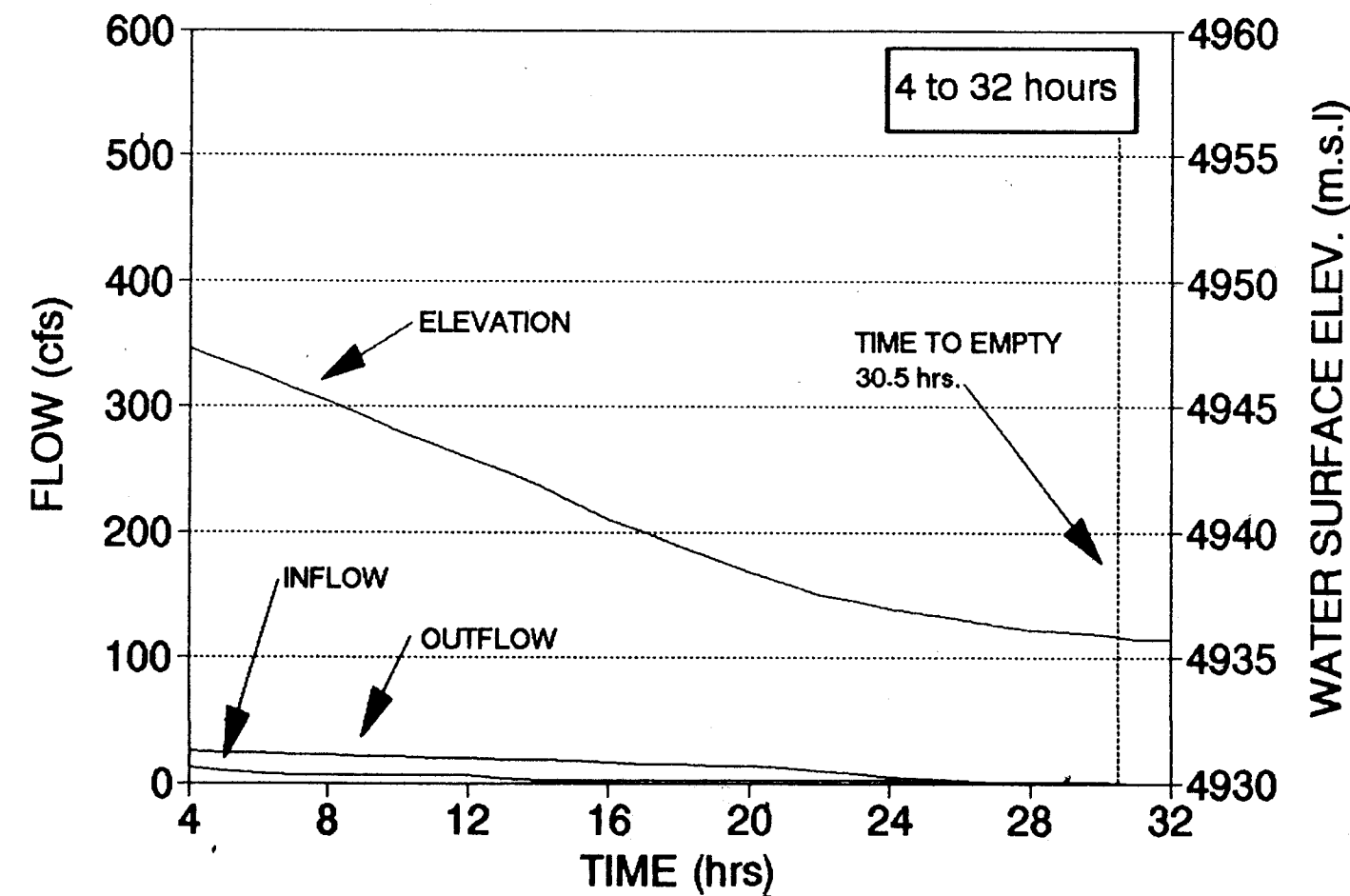
OUTFLOW vs. WATER SURFACE



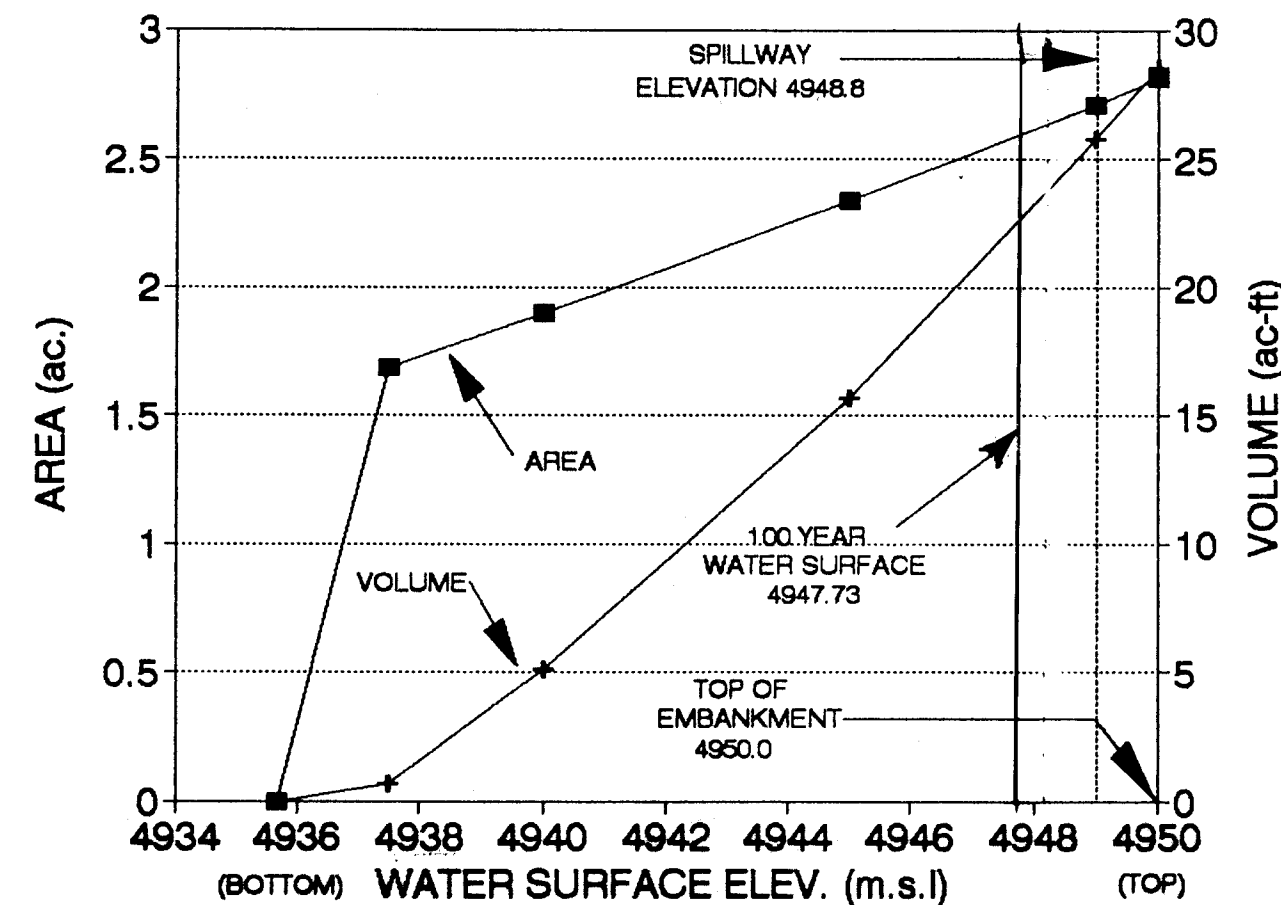
DETENTION BASIN PROPERTIES	
DRAINAGE AREA SIZE (100 YEAR)	332 ac.
100 YEAR DESIGN RAINFALL	2.4 in. in 24 hrs (2.2 in. in 6 hrs)
100 YEAR PEAK INFLOW (24)	567 cfs
HAZARD CLASSIFICATION	DOES NOT APPLY
MAXIMUM HEIGHT OF FILL ABOVE NATURAL GROUND	2.5 ft
LENGTH OF RETAINING WALL	350 ft
TOP OF WALL ELEVATION	4950.0
LOCATION OF EMERGENCY SPILLWAY (WEIR)	SW CORNER OF BASIN
LENGTH OF SPILLWAY CREST	73 ft
TOP OF WEIR WIDTH	2.67 ft
SLOPE OF UPSTREAM FACE	3H:1V OR FLATTER
SLOPE OF DOWNSTREAM FACE	HORIZONTAL; VERTICAL @ 2.5' RET WALL
TOP OF SPILLWAY ELEVATION	4948.8
CROSS SECTIONAL AREA OF EMERGENCY SPILLWAY	87.6 sq ft
DISCHARGE CAPACITY OF EMERGENCY SPILLWAY	107 cfs
OUTLET CONDUIT SIZE	30" dia.
OUTLET INVERT ELEVATION	4935.68
SLOPE OF OUTLET PIPE	0.001 ft/ft
MAXIMUM OUTLET DISCHARGE CAPACITY	27.8 cfs
TIME TO EMPTY DETENTION RESERVOIR (100-YR)	30.5 hrs
MAXIMUM WATER SURFACE ELEVATION (100-YR)	4947.73 @ 2.25 hrs
SURFACE AREA AT MAXIMUM WATER SURFACE ELEVATION (100-YR)	2.6 ac.
SURFACE AREA AT TOP OF WALL (4950.0)	2.8 ac.
STORAGE CAPACITY @ 4947.73 (100-YR)	22.6 ac. ft
STORAGE CAPACITY @ 4950.0 (TOP OF WALL)	28.5 ac. ft.

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100-YR 24-HR STORM INFLOW, OUTFLOW, AND WATER SURFACE



AREA and VOLUME vs. WATER SURFACE



FILE-B:8:8NOTES LAST REVISION=11/14/91

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1988) INCLUDING UPDATES. FOR SHORT, THESE MAY ALSO BE REFERRED TO AS THE SPECIFICATIONS OR THE STANDARD SPECIFICATIONS.
- IF THE CONTRACTOR IS UNCLEAR AS TO THE INTENT OF THE PLANS OR SPECIFICATIONS HE SHALL PROMPTLY DISCUSS THEM WITH THE ENGINEER.
- TIMING OF WORK: SEE THE SUPPLEMENTAL GENERAL CONDITIONS AND SPECIFICATIONS FOR REQUIREMENTS FOR THE TIMING OF CONSTRUCTION.
- MUCH OF THE WORK OF THIS PROJECT OCCURS IN OR NEAR ESTABLISHED RESIDENTIAL AREAS. THE CONTRACTOR SHALL CONDUCT HIS WORK IN SUCH A WAY AS TO AVOID UNNECESSARY DISRUPTION, INCLUDING BUT NOT LIMITED TO DISRUPTIONS CAUSED BY TRAFFIC, NOISE, AND DUST.
- THE UTILITY LOCATIONS SHOWN ON THE PLANS ARE BASED ON RECORD DRAWINGS AND FIELD SPOTTINGS AND MUST BE CONSIDERED APPROXIMATE. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL, 260-1990, FOR LOCATION OF EXISTING UTILITIES. THE ONE-CALL TICKET NUMBER FOR DESIGN OF THIS PROJECT WAS 910517 1429 0174.
- ALL UTILITIES SHOWN AND ANY OTHER UTILITIES THAT ARE NOT SHOWN ON THE PLANS BUT ARE WITHIN THE CONSTRUCTION AREA SHALL BE LOCATED, IDENTIFIED AND PROTECTED BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL OBSTRUCTIONS, PRIOR TO STARTING WORK AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- UTILITIES COORDINATION: THE CONTRACTOR SHALL COORDINATE WITH THE UTILITIES INVOLVED BEFORE AND DURING WORK ON THIS PROJECT AND SHALL INFORM THE ENGINEER OF ANY PROBLEMS AFFECTING THE DESIGN OR EXECUTION OF THE PROJECT. THE UTILITY CONTACT PERSONS FOR THIS PROJECT ARE:

UTILITY	NAME OF CONTACT	PHONE
PUBLIC SERVICE COMPANY OF NEW MEXICO	BRENT SWITZER	848-3470
GAS COMPANY OF NEW MEXICO	TIM CYNOVA	761-7775
U. S. WEST COMMUNICATIONS	TOM WISEMAN	245-6460
JONES INTERCABLE	KAREN JARAMILLO	761-6220
(AT&T)	ISHRAEL PARTOJA	842-2806
- THE GAS CO. SHALL MOVE OR REMOVE ITS LINES AS REQUIRED IN ADVANCE OF CONSTRUCTION.
- HIGH PRESSURE AND VERY HIGH PRESSURE GAS LINES EXIST CLOSE TO THE WORK IN SEVERAL PLACES, PARTICULARLY ALONG COMMERCIAL STREET.
- THE CONTRACTOR SHALL VERIFY THAT THE SANITARY SEWER LINE IN BROADWAY BLVD. SHOWN ON THE PLANS AS BEING ABANDONED ACTUALLY IS ABANDONED BEFORE REMOVING OR DISTURBING IT.
- ALL UTILITIES WITHIN THIS PROJECT SHALL REMAIN IN OPERATION UNLESS OTHERWISE INDICATED ON THE PLANS.
- DESIGN NOTE: THE CATCH BASINS ON THE WEST SIDE OF BROADWAY BLVD. SOUTH OF SANTA FE AVE. WILL CONTINUE TO BE CONNECTED TO THE EXISTING 72-INCH STORM DRAIN. CATCH BASINS ON THE EAST SIDE WILL CONNECT TO NEW STORM DRAINS AS SHOWN ON THE PLANS.
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. THE CONTRACTOR SHALL NOTIFY THE BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH THE CONSTRUCTION COORDINATOR OF THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPT.
- THE CONTRACTOR SHALL MAINTAIN THE TRAFFIC CONTROL SIGNAL (STOP LIGHT) AT BROADWAY BLVD. AND PACIFIC AVE. IN OPERATION AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPLACE ALL SIGNAL LIGHTS TO THEIR ORIGINAL LOCATION, KIND, AND OPERATION AT ANY TIME WHEN A STOP SIGN HAS BEEN REMOVED OR OBSOBELED (E.G. SANTA FE AVE WEST OF BROADWAY BLVD) THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE TEMPORARY STOP SIGN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ALL PAVEMENT STRIPING WITHIN THIS PROJECT SHALL BE REPLACED BY THE CONTRACTOR IN LOCATION AND IN KIND AS EXISTING, OR AS INDICATED BY THIS PLAN SET AS DIRECTED BY THE ENGINEER.
- SURVEY MONUMENTS: THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
- BEARINGS & DISTANCES: THE DETENTION BASIN IS DESIGNED TO BE LAID OUT USING PROJECT BEARINGS AND DISTANCES AS SHOWN ON THE PLANS. LINE 1 ON SHEET 5 IS THE MAIN LAYOUT LINE FOR THE PROJECT. THE PLAT WAS CREATED USING DIFFERENT C.O.A. MONUMENTATION. SHEET 5 CONTAINS BOTH PLAT AND PROJECT DESCRIPTIONS OF LINE 1. THE PROJECT LIES WITHIN THE PLAT BOUNDARIES.
- LEFT AND RIGHT MEAN LEFT AND RIGHT WHEN LOOKING IN THE DIRECTION OF INCREASING STATIONING.
- PROFILE GRADE IS GIVEN AT RIM ELEVATION OF EXISTING STORM DRAIN MANHOLES IN BROADWAY, WILLIAM, PACIFIC, AND COMMERCIAL. THE CONTRACTOR SHALL DOCUMENT EXISTING PAVEMENT GRADES PRIOR TO CONSTRUCTION AND SHALL RESTORE EXISTING GRADES WHEN REPAVING UNLESS OTHERWISE SHOWN ON THE PLANS OR OTHERWISE DIRECTED BY THE ENGINEER.
- CONTROL OF DUST: THE CONTRACTOR SHALL BE FAMILIAR WITH THE RELEVANT REGULATIONS OF THE ALBUQUERQUE/BERNALILLO COUNTY AIR QUALITY CONTROL BOARD. AT A MINIMUM, THE CONTRACTOR SHALL MAKE A VOLUNTARY WORK STOPPAGE WHEN WIND AND SOIL CONDITIONS ARE SUCH THAT HE CANNOT CONFINE THE DUST TO THE SITE. SOIL CONDITIONS MAY REQUIRE THAT ALL EXCAVATION LIFTS BE PRE-WETTED, PARTICULARLY IF PADDLE SCRAPERS ARE USED. ALL TRUCKS SHALL BE PROPERLY MAINTAINED AND EQUIPPED AND ALL LOADS ENTERING AND LEAVING THE SITE SHALL BE COVERED. LEAVE ALL DISTURBED AREAS IN STABLE CONDITION AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL CLEAN UP ADJACENT PAVED STREETS DIRTY BY HIS OPERATIONS, DAILY OR AS DIRECTED BY THE ENGINEER, BY WET BROODING OR OTHER APPROVED MEANS. DRY BROODING WILL NOT BE PERMITTED.
- CONTROL OF WATER: THE CONTRACTOR SHALL CONTROL STORM AND NUISANCE WATER WITHIN THE PROJECT AREA. IN PARTICULAR, THE CONTRACTOR SHALL ENSURE THAT WATER FROM STORM DRAINAGE SYSTEMS WITHIN THE PROJECT AREA (PARTICULARLY THE BROADWAY STORM DRAINAGE SYSTEM) ARE DIRECTED SAFELY AWAY FROM THE WORK AREA. SEE THE CONTRACT DOCUMENTS INCLUDING SUPPLEMENTAL GENERAL CONDITIONS AND TECHNICAL SPECIFICATIONS, SPECIFICALLY STS SECTION 625.
- TRENCHING: SEE THE SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS, INCLUDING SECTION 701.6.5. THE DEPTH OF NEW PIPING, THE NEARNESS OF OTHER UTILITIES AND STRUCTURES WHICH THE CONTRACTOR IS REQUIRED TO PROTECT, PAY LIMITS, AND TRAFFIC CONCERNS INDICATE THAT TRENCH BOXES, SHORING, OR OTHER SUPPORT MAY BE APPROPRIATE IN MUCH OF THIS PROJECT. BACKFILL BETWEEN A TRENCH SHIELD (TRENCH BOX), IF USED, AND THE TRENCH WALL IS REQUIRED IN SOME LOCATIONS.
- VIBRATORY COMPACTION: SEE THE SUPPLEMENTAL SPECIFICATIONS FOR LIMITATIONS.
- PIPE MATERIALS AND INSTALLATION: SEE THE PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ALL CONCRETE PIPE IS CLASS III REINFORCED CONCRETE PIPE EXCEPT AS OTHERWISE NOTED ON THE PLANS.
- LEAN FILL: LEAN FILL CONSTRUCTION PER STS SEC.207 IS PERMITTED AT THE CONTRACTOR'S OPTION UPON AUTHORIZATION BY THE ENGINEER.
- PIPE CROSSINGS: ALL PIPING AND OTHER UTILITIES THAT CROSS WITH LESS THAN EIGHT (8) INCHES OF CLEARANCE SHALL HAVE CONCRETE PLACED BETWEEN THEM FOR A DISTANCE OF 2.5 FEET ON EITHER SIDE OF THE CROSSING SO AS TO PROVIDE FIRM AND UNIFORM SUPPORT EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER.
- PIPE ABANDONMENT: ALL LATERALS AND OTHER PIPE THAT IS TO BE ABANDONED IN PLACE SHALL HAVE ALL OPEN ENDS SECURELY PLUGGED WITH CONCRETE. ANY PIPE THAT IS DAMAGED, AND ANY OTHER PIPE DESIGNATED BY THE ENGINEER, SHALL BE REMOVED AND THE REMAINING OPEN ENDS SHALL BE PLUGGED.
- SALVAGE: SALVAGE ALL MANHOLE RINGS AND COVERS, CATCH BASIN GRATES, AND ANY WATERLINE OR STORM DRAIN COMPONENTS AS DIRECTED BY THE ENGINEER, TO THE PIND AVENUE CITY YARDS. THIS WORK IS INCIDENTAL TO CONSTRUCTION.
- TEMPORARY PAVING: TEMPORARY PAVING AS NEEDED SHALL BE PROVIDED PER THE DETAIL SHOWN ON SHEET 13 AND THE STANDARD SPECIFICATIONS. APPROXIMATELY 80 SY OF TEMPORARY PAVING MAY BE NEEDED AT BROADWAY BLVD. AND SANTA FE AVE. TEMPORARY PAVING SHALL BE INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.

26 4165.90 900293

LEGEND	
DASHED SYMBOLS DENOTE EXISTING ITEMS	
---	EXISTING WATER LINE
---	PROPOSED WATER LINE
---	EXISTING CONTOURS
---	PROPOSED CONTOURS
57.50	EXISTING ELEVATION
50.00	PROPOSED ELEVATION
---	FLOW DIRECTION
---	SLOPE INDICATOR
---	EXISTING FIRE HYDRANT
PP	POWER POLE
---	STORM DRAIN INLET
---	CURB AND GUTTER
O	MANHOLE
---	FENCE
---	OVERHEAD POWER LINE
---	UNDRGRND. TELEPHONE
---	IRRIGATION LINE
---	GAS LINE
---	PROPERTY LINE
---	CENTERLINE
---	EXTENSION OF R
---	ASPHALT PAVEMENT
---	EARTH
---	CONCRETE
---	TRANSITION AREA

ABBREVIATIONS	
T.C.	TOP OF CURB
T.O.C.	TOP OF CONCRETE
T.O.W.	TOP OF WALL
E.O.P.	EDGE OF PAVEMENT
E.O.P.	END OF PROJECT
B.O.P.	BEGINNING OF PROJECT
F.F.	FINISHED FLOOR
F.G.	FINISHED GRADE
P.L.	PROPERTY LINE
C	CENTERLINE
V.P.T.	(VERTICAL) POINT OF TANGENT
P.I.	POINT OF INTERSECTION
F.C.	FACE OF CURB
T.G.	TOP OF GRATE
S.D.	(COA) STANDARD DRAWING
M.H.	MANHOLE
REM.	REMOVE
DISP.	DISPOSE
L.F.	LINEAR FEET
EXIST.	EXISTING
S.A.S.	SANITARY SEWER
R/W	RIGHT OF WAY
F	FLOW LINE
F.C.	FACE OF CURB
H.S.L.	HYDRAULIC GRADE LINE
R.C.P.	REINFORCED CONCRETE PIPE
S.D.	STORM DRAIN
(V.P.I.)	(VERTICAL) POINT OF INTERSECTION
(V.P.C.)	(VERTICAL) POINT CURVATURE
O.C.	ON CENTER

Resource Technology, Inc.
ENGINEERS & ENVIRONMENTAL SCIENTISTS
2159 USUNA NE - SUITE 200 ALBUQUERQUE, NEW MEXICO 87113
TELEPHONE - (505) 245 - 3115

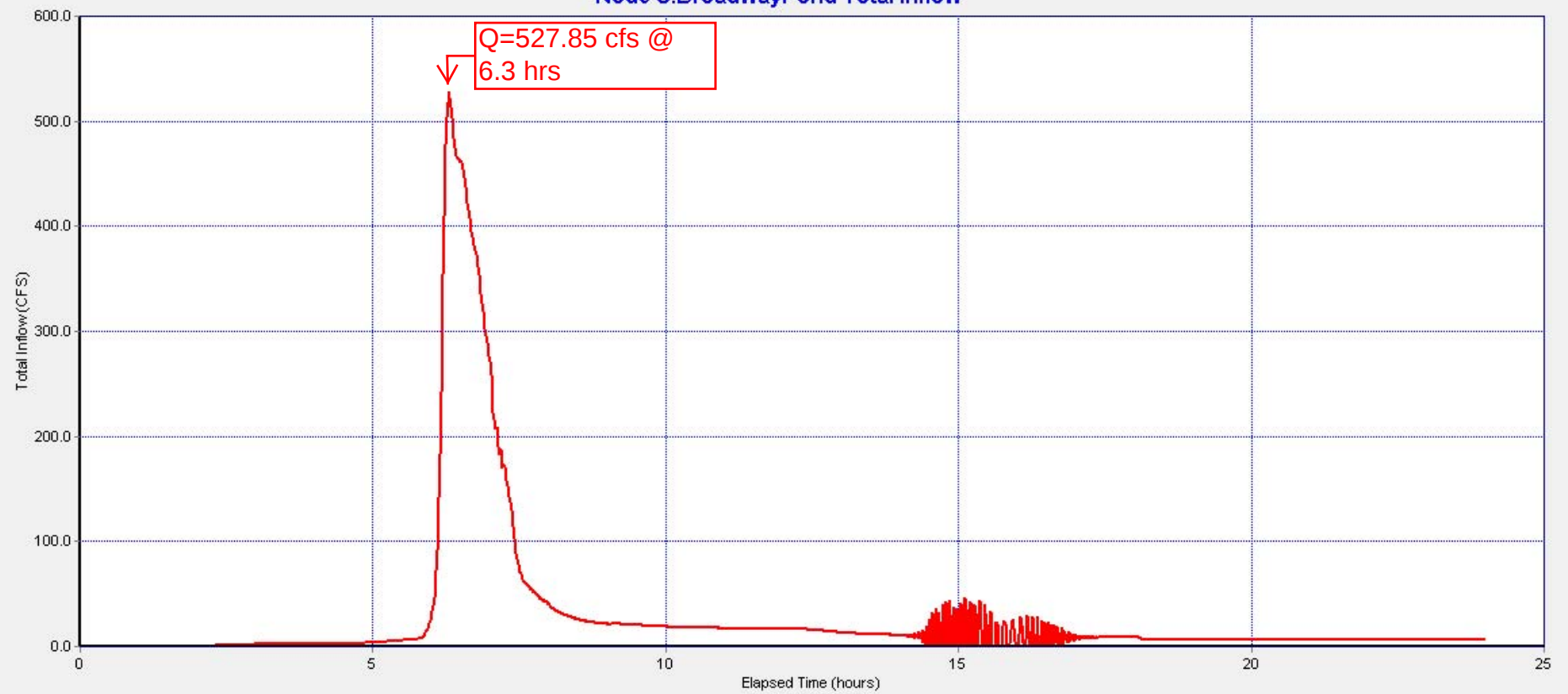
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: BASIN LOCATION AND HYDROGRAPHS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Rogel Rios	2-5-92	WATER		
TRANSPORT.	Rogel Rios	1-22-92	WASTE WATER		
HYDROLOGY	Rogel Rios	1-17-92			
PROJECT NO.	4165.90	MAP NO.	K-14,L-14	SHEET OF	2 34

SCANNED BY
BY LASON



Node S.BroadwayPond Total Inflow

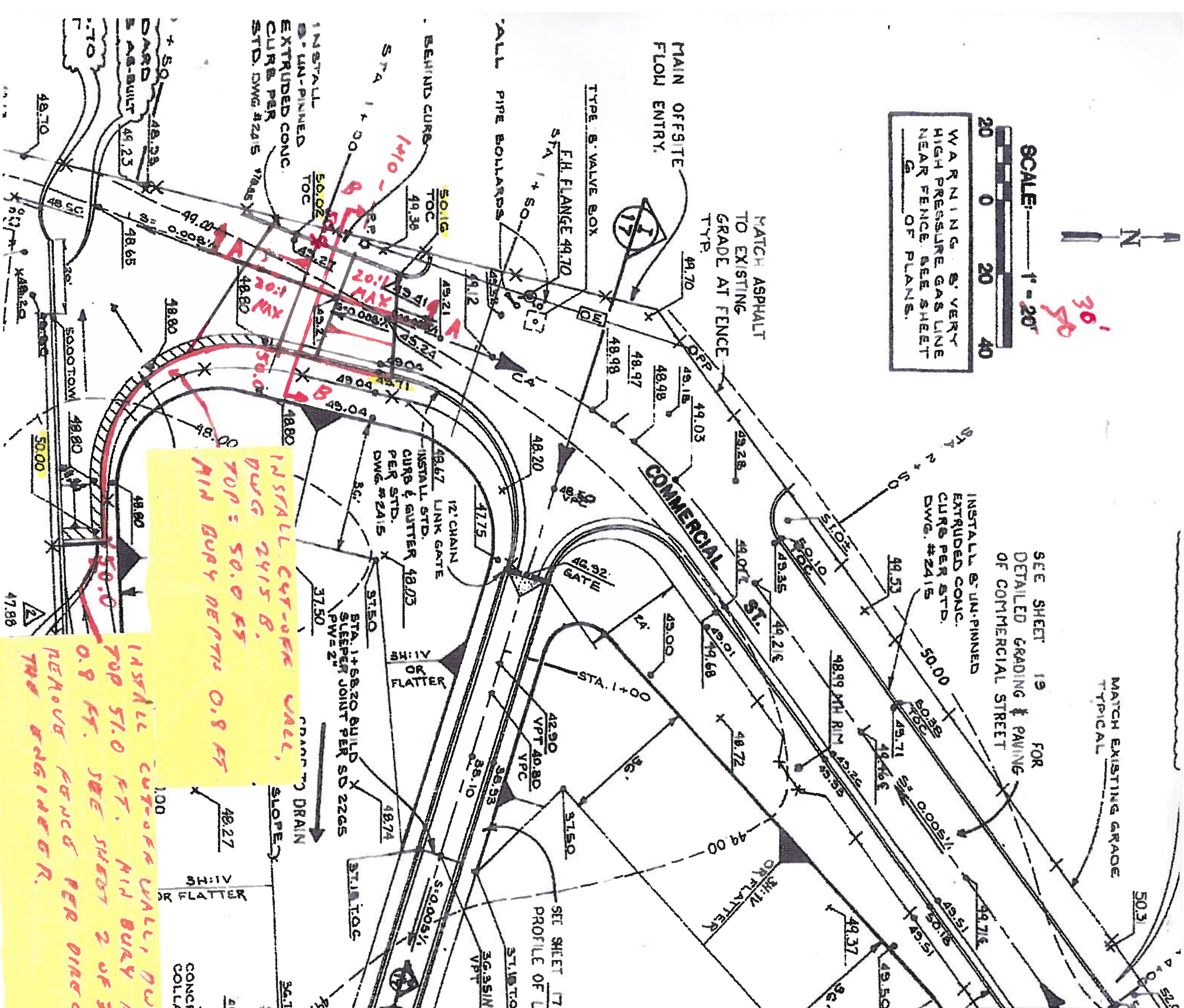




SCALE: 1" = 20'



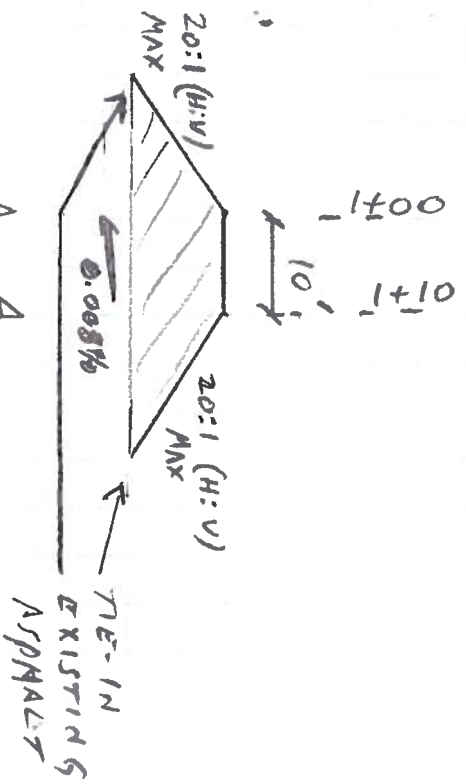
WARNING: VERY HIGH PRESSURE GAS LINE NEAR FENCE. SEE SHEET 6 OF PLANS.



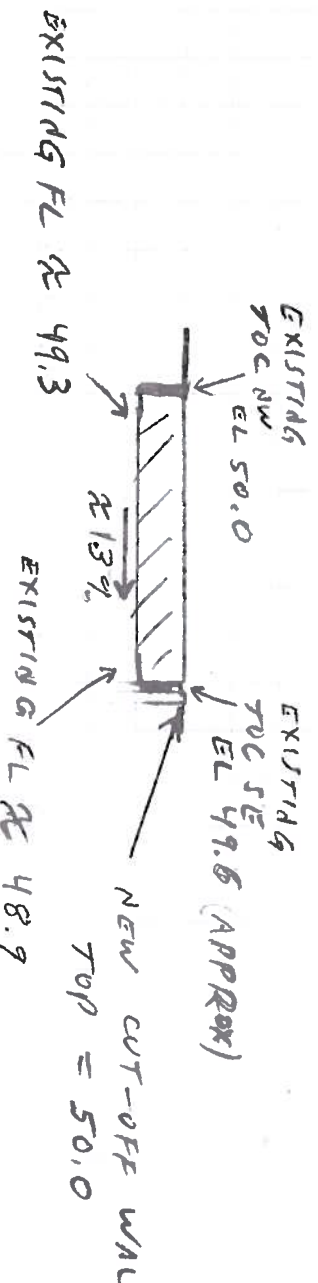
INSTALL CUT-OFF WALL,
DUG 2415 B.
TOP = 50.0 FT
AND BURY DEPTH 0.8 FT

INSTALL CUT-OFF WALL, DUG 2415 B.
TOP 51.0 FT. AND BURY DEPTH OF
0.8 FT. SEE SHEET 2 OF 3.
REMOVE FENCE PER DIRECTION OF
THE ENGINEER.

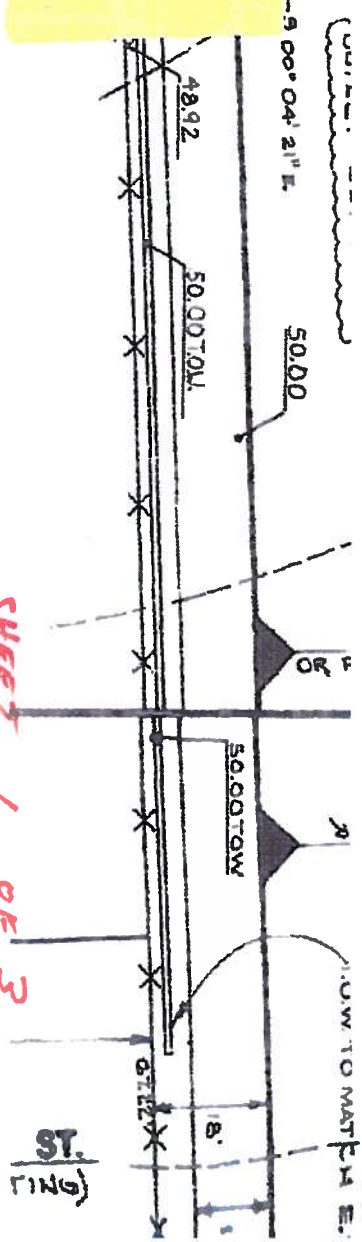
EXISTING
TOC NW
~ EL 50.0



A-A
"SPEED TABLE/WATER BREAK
PROFILE"



B-B
"SPEED TABLE/WATER BREAK
PROFILE"



SHEET 1 OF 3

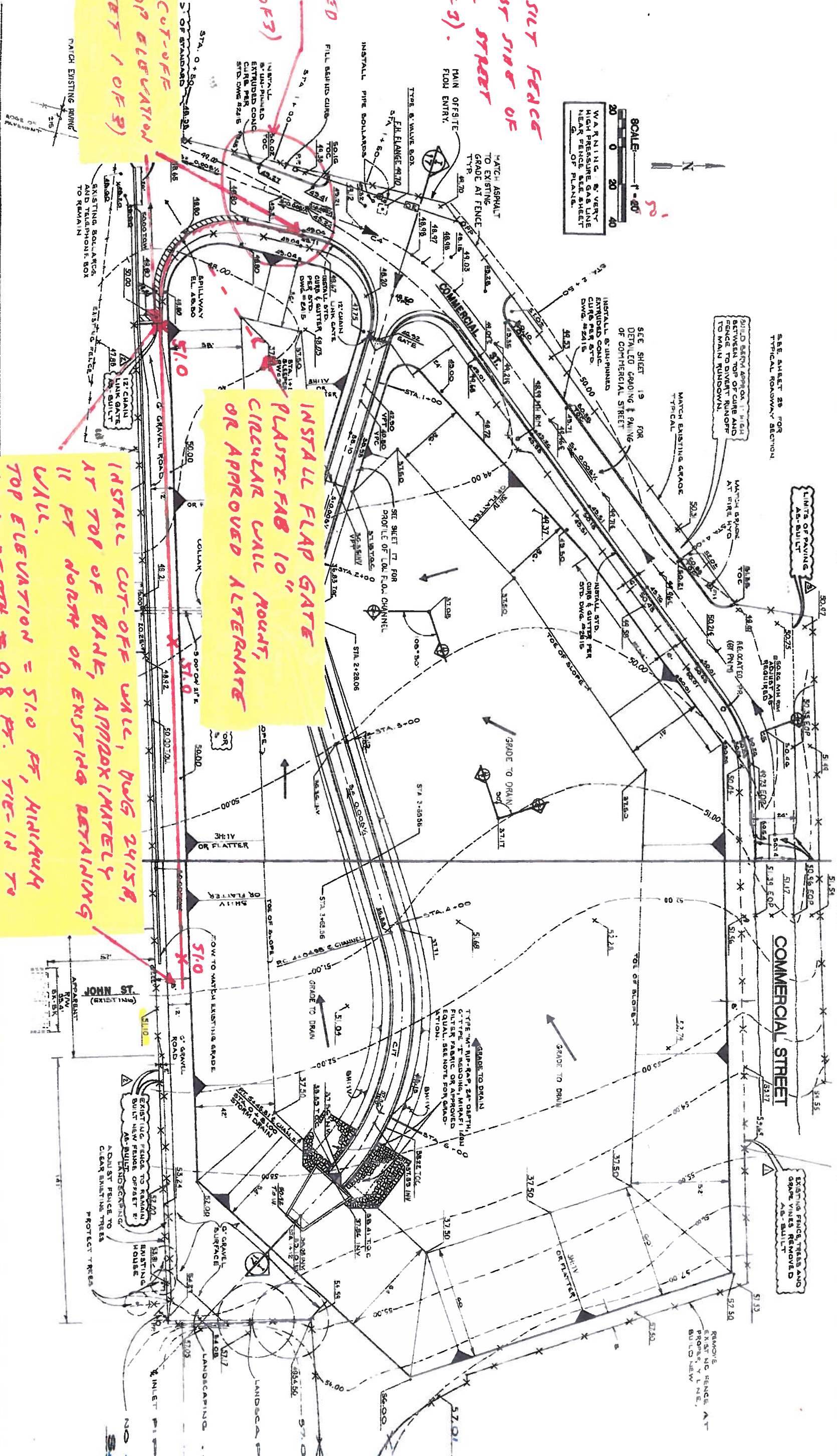
INSTALL SUT FENCE
ALONG WEST SIDE OF
COMMERCIAL STREET
(SHEET 3 OF 3).

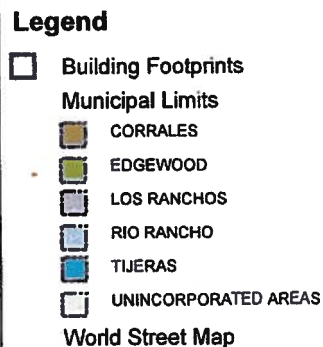
PROPOSED CUT-OFF
WALL, TOP ELEVATION
50.0, (SHEET 1 OF 3)

PROPOSED
WATER
DRAIN
(SHEET 1 OF 3)

INSTALL FLAP GATE
PLASTIC FAB 10" HOUSING,
CIRCULAR WALL ROUTE,
OR APPROVED ALTERNATE

INSTALL CUT-OFF WALL, DUG 24.5",
AT TOP OF BANK, APPROXIMATELY
11 FT NORTH OF EXISTING RETAINING
WALL.
TOP ELEVATION = 51.0 FT, MINIMUM
BURY DEPTH = 0.8 FT. TIE-11 TO
EXISTING GROUND AT EAST END.





Notes



This map is a user generated static output from www.cabq.gov/gis and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION



The diagram illustrates a road cross-section with the following features and dimensions:

- Center of travel lane:** Indicated by a vertical line with a downward arrow, labeled "Center of travel lane".
- Per plan:** Four horizontal lines with downward arrows, labeled "Per plan".
- 12 inches:** A dimension line indicating the width of the lane markings, labeled "12 inches".
- 12-inch white markings:** A label pointing to the white markings on the road surface.
- 6 ft:** A dimension line indicating the width of the lane, labeled "6 ft".
- Center of Roadway:** A label pointing to the center of the road.



W16-9P

part of a retrofit in 2002. Previously, they were in service as activated sludge pumps at the City of Albuquerque's Southside Water Reclamation Facility.

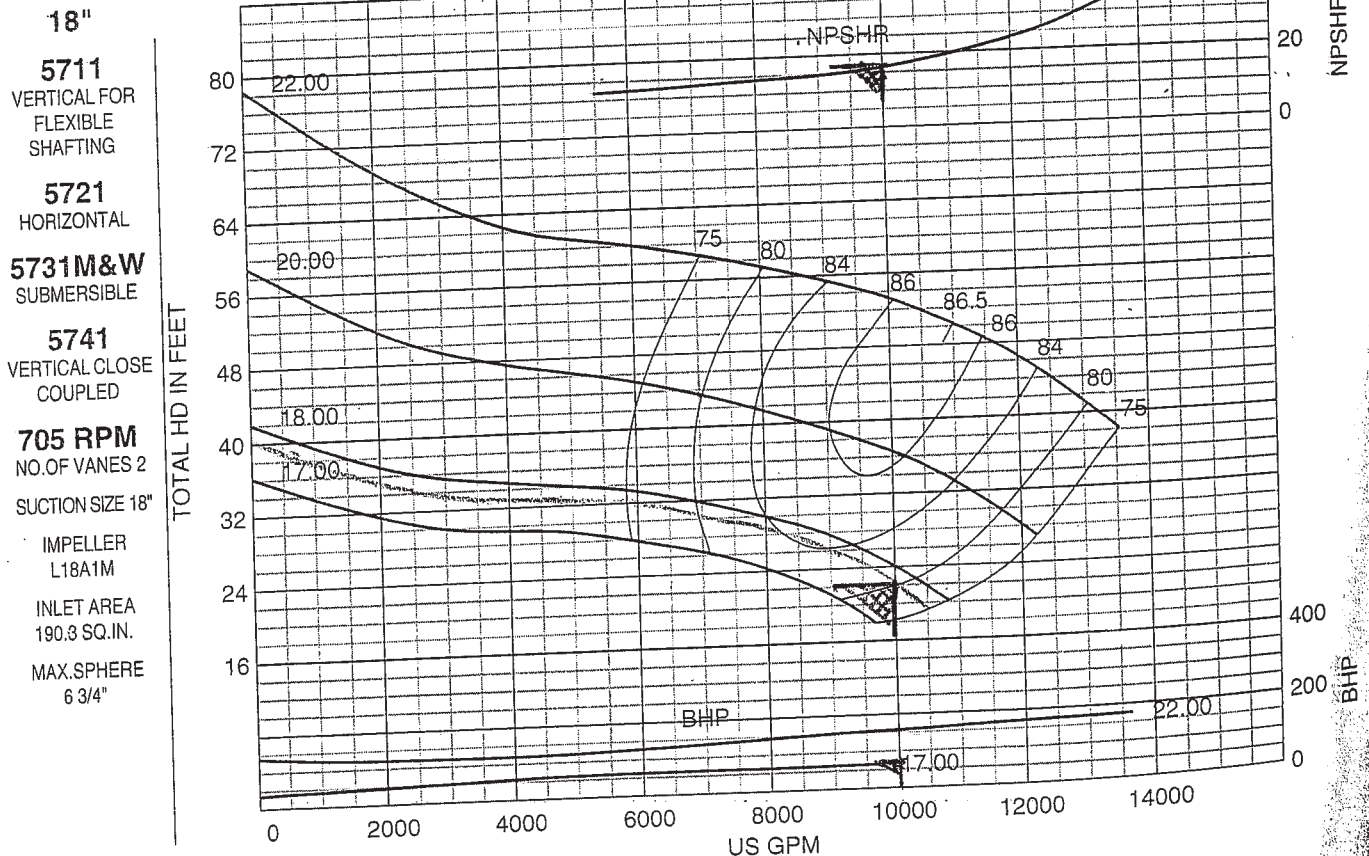
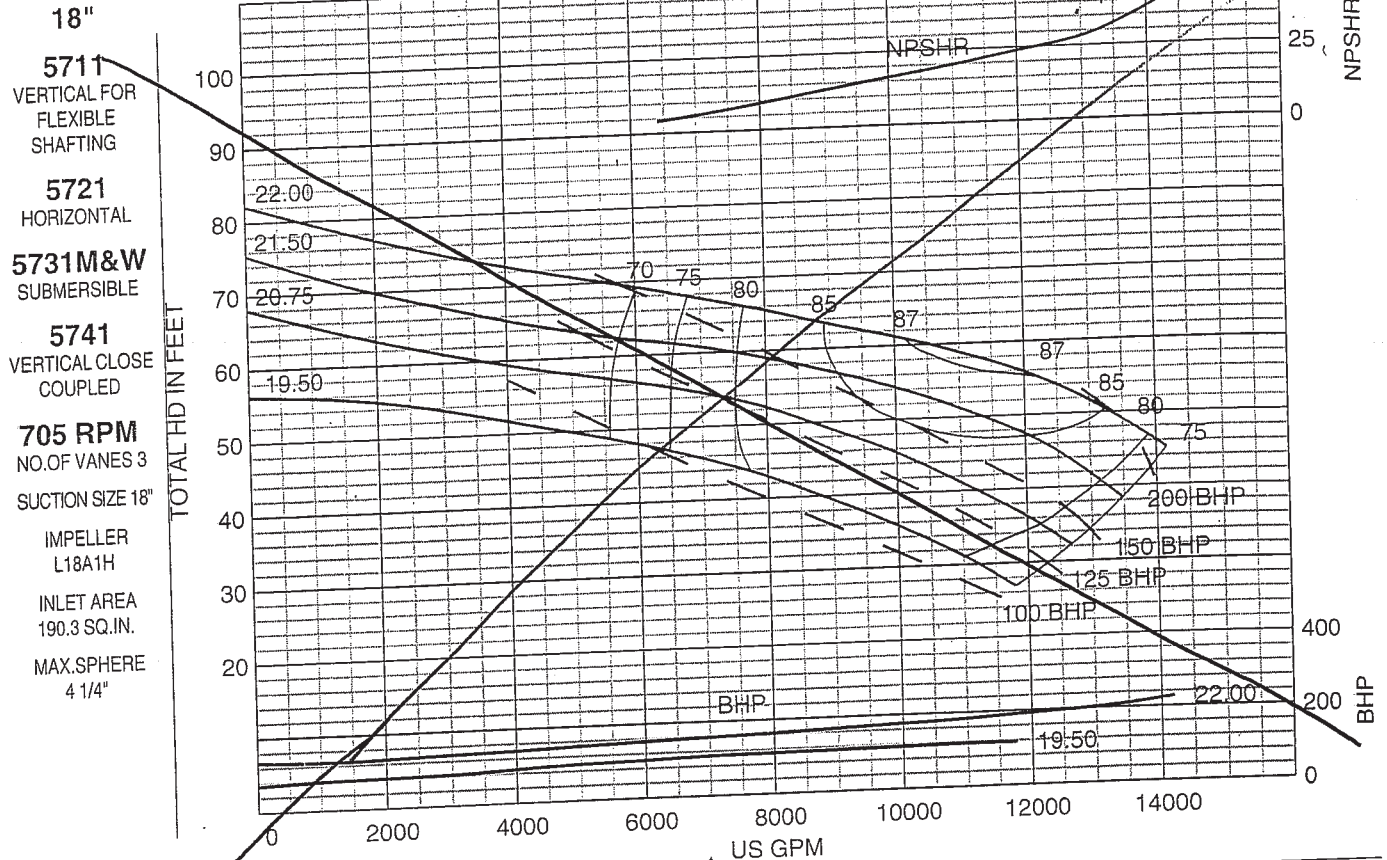
At maximum capacity, the pumps are capable of delivering between 13,900 and 32,000 gpm depending on the total dynamic head (TDH) required. The flow rate depends on the wet well's water level, which causes static lift to range from approximately 16 feet to 35 feet. A larger static lift corresponds to a smaller flow rate as the pumps must work harder to lift the water. The lift pumps may be operated in different configurations to suit variable pumping requirements. Pump No. 1 should not be operated by itself, but rather as an auxiliary to the two (2) Flygt pumps when more capacity is needed. This is because the required flow rate and TDH may be outside the manufacturer's recommended operating range under expected conditions. Refer to Appendix C for the manufacturer's pump curve and data. Also included in Appendix C are an additional set of curves showing approximate system hydraulics and possible pump operating combinations.

The manufacturer's pump curves for the FM 5710-18 and Flygt CT3500 indicate that the pumps require 18 feet and 16 feet of net positive suction head (NPSH) to prevent cavitation, respectively. When cavitation occurs, the pump runs noisily and sounds as if it were pumping marbles. Prolonged cavitation will result in pitting of the impeller and volute. Stormwater periods tend to be brief and some cavitation is tolerable over the life of the pump.

At the station's site elevation, the quantity of available suction head is greater than the required quantity. Therefore, the pumps are capable of pulling between 4.5 (FM 5710) and 8.5 (Flygt CT3500) feet of suction lift. That is, the pumps could pull water through suction piping from a wet well at a lower elevation with a water level approximately 4.5 to 8.5 feet below the elevation of the impeller. The station is designed such that the pumps pull less suction lift than this amount.

The Flygt pumps are installed in Flygt's "T" configuration, which indicates it is installed vertically in a dry-pit with permanent (flanged) suction and discharge piping.

Pump 1



FLYGT

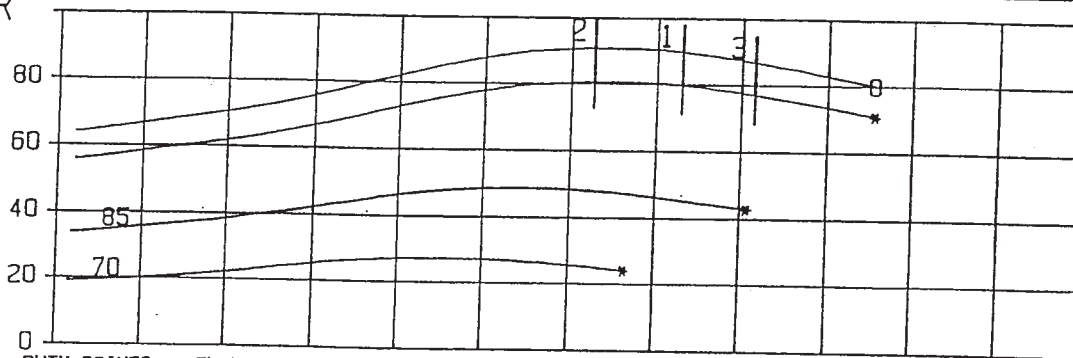
PERFORMANCE CURVE

Pump 2 #3

DATE 1990-11-08	PROJECT C. D. M. ALBQ. WWTP - R. A. S. PUMPS	ISSUE 5	PROD 3500
NO. OF BLADES..... 3	TOT. MOM. OF INERTIA..... 12.99 KGM ²	POLES 14 FREQ 60 HZ	CURVE NO 63-1430
IMPELLER THROUGHLET... 110*250 RECTA.	RATED SPEED..... 505 RPM	VOLTAGE..... 460 V	IMPELLER DIAMETER 595 MM
		MOTOR SHAFT POWER..... 100 KW	MOTORTYPE 51-56-14AA/3
		STARTING TORQUE..... 1715 NM	GEARTYPE RATIO
		MAX TORQUE..... 3560 NM	
		RATED CURRENT..... 225 A	
		STARTING CURRENT..... 715 A	
MOTOR COS FI	1/1-LOAD 0.63	3/4-LOAD 0.56	1/2-LOAD 0.45
MOTOR EFFICIENCY	88.5%	88.5%	86.5%
GEAR EFFICIENCY			

POWER (kW)

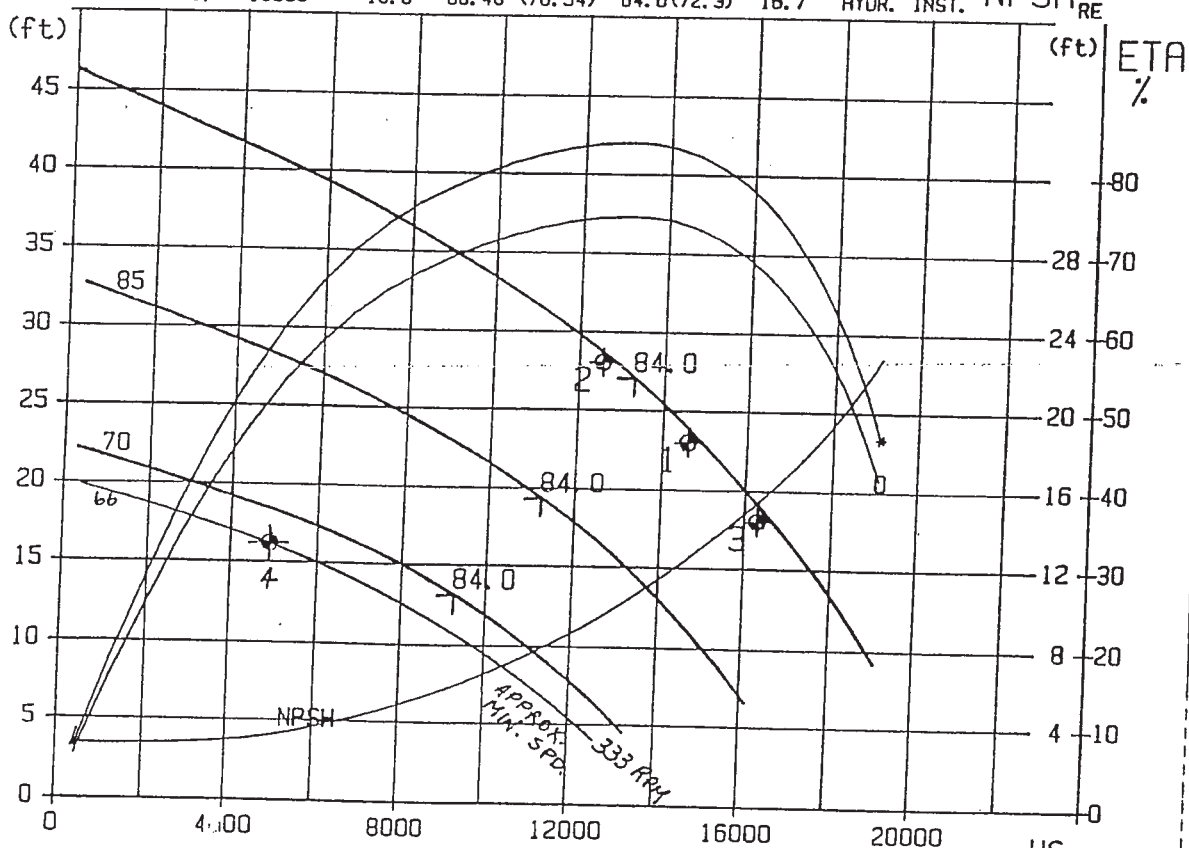
PP04. G



DUTY-POINTS	FLOW (USgpm)	HEAD (ft)	POWER (kW)	EFF. (%)	NPSH (ft)	GUARANTY
1.	14600	23.0	89.64 (79.48)	70.7 (79.7)	13.4	HYDR. INST.
2.	12540	28.0	91.08 (80.79)	72.7 (82.0)	10.2	HYDR. INST.
3.	16300	18.0	86.48 (76.54)	64.0 (72.3)	16.7	HYDR. INST.

HEAD

(ft)



CURVES SHOW PERFORMANCE WITH CLEAR WATER 4. 4865 GPM @ 16' TDH
 * : PUMP EFFICIENCY/SHAFT POWER MIN.SUBMERGENCE 36" ABOVE PUMP BASE.
 O : OVERALL EFFICIENCY/INPUT POWER MAX.SUBMERGENCE 65' ABOVE PUMP BASE.

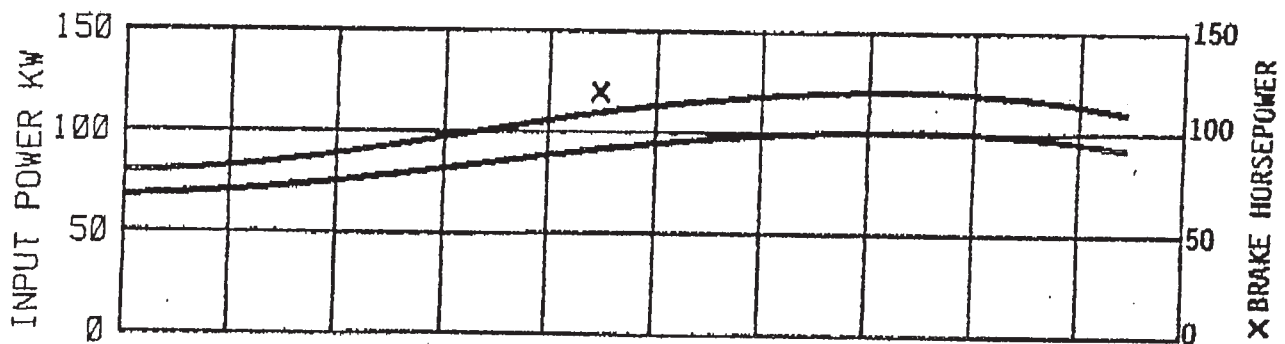
PERFORMANCE CURVE

Pump 2 & 3

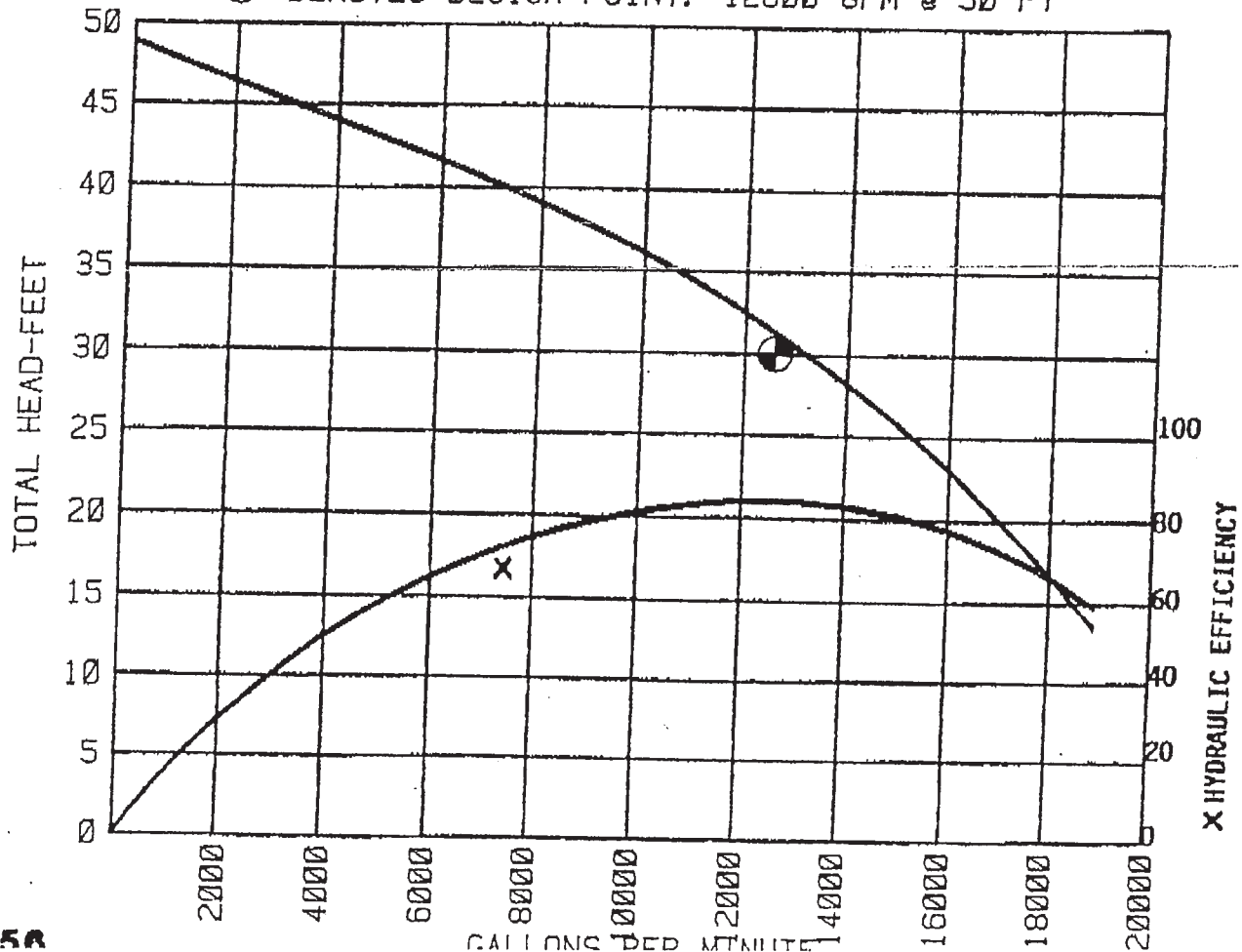
SIMILAR UNIT TEST DATA

 FLYGT CORPORATION, 1000 WALKER DRIVE, GAITHERSBURG, MD 20878	
CUSTOMER REF. NO.	
James Cooke	
Squaw Peak Pkwy	
Phoenix, AZ	
REP.	
James Cooke	

CERTIFIED TEST CURVE NO. 5950			
SER. NO. 880-8850643		KW 112	
HP 134		PH 3	
VOLT. 480		PUMP MODEL	
RTD. RPM 505		IMPLR. 1430	
CP-3500X		SIZE 20"	
CERTIFICATION THIS TEST WAS CONDUCTED AT A FLYGT CORPORATION TEST FACILITY USING CLEAR WATER AT AMBIENT TEMP. (60-80 F.). FLOW, HEAD AND POWER READINGS WERE TAKEN FROM ELECTRONIC METERING EQUIPMENT. ACCURACY OF THE TEST EQUIPMENT CONFIRMED BY PERIODIC CALIBRATIONS.			
TEST BY LINDAS		PREP. BY A. HANNIS	
DATE 6/29/88		DATE 7/29/88	
T.A.# 6662		WITNESSED BY	
		DATE	

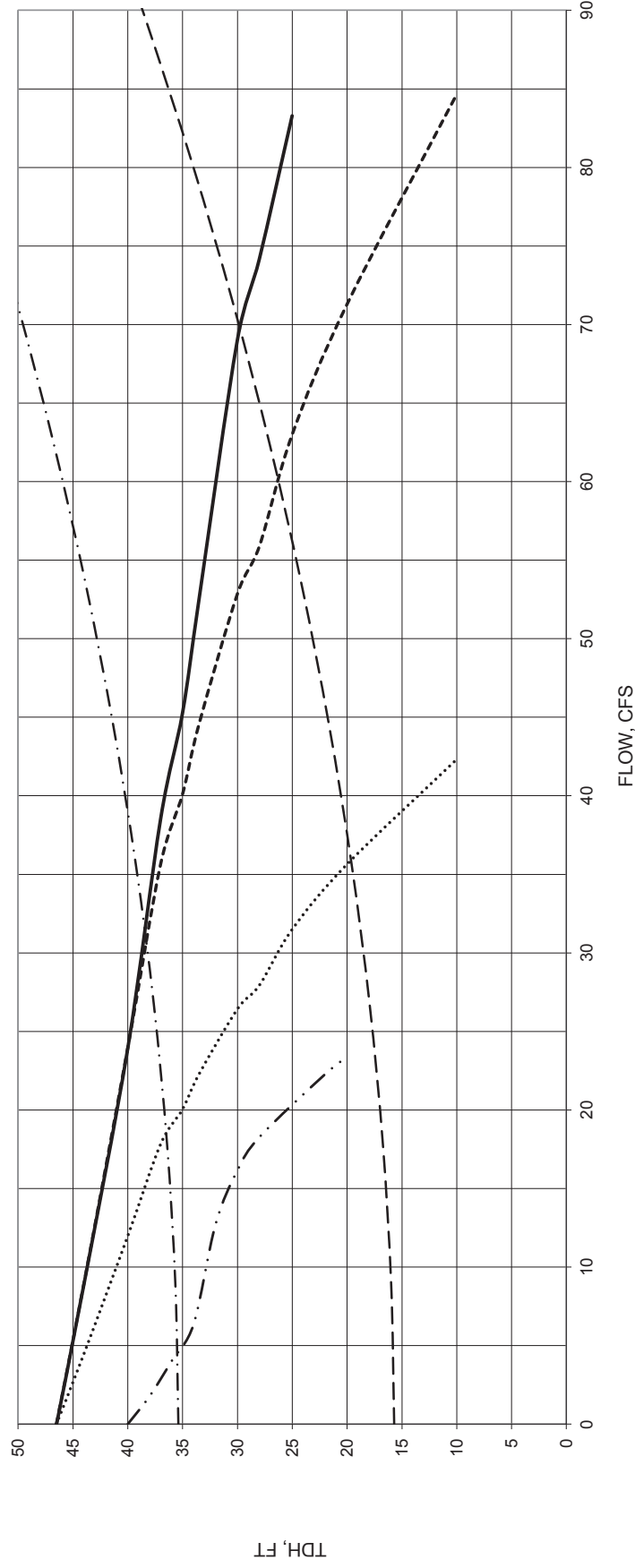
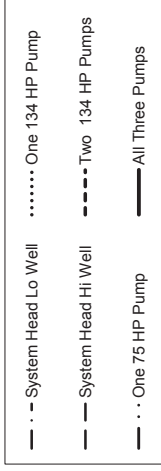


⊕ DENOTES DESIGN POINT: 12600 GPM @ 30 FT



LIFT PUMPS, 36" Pipe

Two Exist. CT3500/860, 1430, 595 mm 134 HP
One Exist VT SN 796118, 75 HP



APPENDIX C
SWMM MODELS ON CD

[OPTIONS]

```

FLOW_UNITS      CFS
INFILTRATION     HORTON
FLOW_ROUTING     DYNWAVE
START_DATE       05/06/2016
START_TIME       00:00:00
REPORT_START_DATE 05/06/2016
REPORT_START_TIME 00:00:00
END_DATE         05/06/2016
END_TIME         06:00:00
SWEEP_START      01/01
SWEEP_END        12/31
DRY_DAYS         0
REPORT_STEP      00:00:15
WET_STEP         00:05:00
DRY_STEP         01:00:00
ROUTING_STEP     0:00:15
ALLOW_PONDING    NO
INERTIAL_DAMPING  PARTIAL
VARIABLE_STEP    0.75
LENGTHENING_STEP 0
MIN_SURFAREA     12.557
NORMAL_FLOW_LIMITED BOTH
SKIP_STEADY_STATE NO
FORCE_MAIN_EQUATION H-W
LINK_OFFSETS     DEPTH
MIN_SLOPE        0.001

```

[JUNCTIONS]

```

;;
;;Name      Invert    Max.      Init.      Surcharge    Poned
;;          Elev.     Depth      Depth      Depth        Area
;;-----
DI2024      4945.64    3.87      0          0            0
;Max/rim_elev._is_top_of_curb_elevation.
DI2046      4945.39    3.5       0          0            0
;Rim elevation was raised to match grate elevation plus 8" curb height.
K14941      4937.35    11.75     0          0            0
;MH rim elevation changed to match lowest connecting inlet grate elevation (DI #2079 - 4949.03) plus 8" curb height.
K14942      4936.82    13.35     0          0            0
K14943      4946.02    3.75      0          0            0
K14944      4937.6     11.85     0          0            0
;Manhole rim elevation has been adjusted to the flowline elevation at the curb plus the curb height (the manhole

```

Existing System Initial WSEL No Inflow.inp

;is located 11 feet from the curb at a 2% cross slope).

K14945	4937.94	12.2	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adjusted to lowest connecting inlet grate elevation (DI #2024 - 4948.66) plus 8" curb height.

K14951	4945.21	4.6	0	0	0
--------	---------	-----	---	---	---

;MH rim elevation changed to reflect lowest connecting inlet grate elevation (DI #2327 - 4948.32) plus 8" curb height.

K14952	4943.04	6.05	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2336 - 4950.17) plus 8" curb height.

K14953	4945.46	5.57	0	0	0
--------	---------	------	---	---	---

;Changed rim elevation to reflect the location of the sd inlet in the middle of the street. William Street has an inverse crown with a 2% cross slope with the sd inlet grate elevation being lower than the curb flowline. Curb elevation was determined to be at 4949.24 ft. multiplied by 2% slope results in an inlet grate elevation of 4949.04 ft. The manhole rim was then adjusted back to the curb height elevation by adding 8" to the grate elevation.

K14954	4937.94	11.81	0	0	0
--------	---------	-------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2009 - 4946.30) plus 8" curb height.

L14041	4936.6	11.17	0	0	0
--------	--------	-------	---	---	---

L14042	4943.53	3.7	0	0	0
--------	---------	-----	---	---	---

L14051	4944.35	2.95	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting grate elevation (DI #2303 - 4947.78) plus 8" curb height.

L14052	4941.40	7.23	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet elevation (DI #2344 - 4949.89) plus 8" curb height.

L14053	4944.98	5.39	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to existing rim elevation (4951.39) plus 8" curb height.

;There were no connecting inlets shown in the survey file.

L14054	4944.59	7.27	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2218 - 4948.59) plus 8" curb height.

L14055	4939.88	9.56	0	0	0
--------	---------	------	---	---	---

L14141	4936.08	12.24	0	0	0
--------	---------	-------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2134 - 4947.71) plus 8" curb height.

L14142	4935.24	13.23	0	0	0
--------	---------	-------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2156 - 4947.10) plus 8" curb height.

L14143	4935.66	12.35	0	0	0
--------	---------	-------	---	---	---

L14146	4943.06	5.41	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2210 - 4947.80) plus 8" curb height.

L14151	4939.08	9.82	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2180 - 4947.83) plus 8" curb height.

L14152	4937.58	11.05	0	0	0
--------	---------	-------	---	---	---

L14999	4937.3	11.28	0	0	0
--------	--------	-------	---	---	---

L14JB145	4934.73	13.55	0	0	0
----------	---------	-------	---	---	---

[OUTFALLS]

;;	Invert	Outfall	Stage/Table	Tide
;;Name	Elev.	Type	Time Series	Gate

Existing System Initial WSEL No Inflow.inp

```
;;-----
L14JB2      4952.21    FREE                      NO
```

[STORAGE]

```
;;
;;Name      Invert    Max.    Init.    Shape    Shape    Poned    Evap.
            Elev.     Depth   Depth   Curve   Parameters Area    Frac.
;;-----
L14PS1      4926.99   22.67    0        TABULAR  L14PS1          0      0
SBroadwayPond 4938.42   15.25   15.25    TABULAR  SB.DepthArea    0      0
```

[CONDUITS]

```
;;
;;Name      Inlet      Outlet      Length    Manning    Inlet      Outlet      Init.      Maximum
            Node       Node              N          Height     Height     Flow       Flow
;;-----
Bell_A      L14JB145    L14143      86         0.017      12.88      11.44      0          0
Bell_B      L14999      L14JB145    261        0.017      10.53      12.88      0          0
Bell_C      L14152      L14999      35         0.017      10.25      10.53      0          0
Commercial_1 K14942      L14041      393        0.017      12.68      10.29      0          0
Commercial_2 L14142      L14041      350        0.017      12.47      10.29      0          0
Commercial_Sag K14941      DI2046      92.157     0.017      10.86      2.56       0          0
Cromwell_Junct K14942      K14943      48         0.017      12.68      3.01       0          0
E.Cromwell   K14953      K14952      170        0.017      4.71       5.28       0          0
E.Garfield   L14054      L14055      244        0.017      6.6        8.71       0          0
Lewis_Junct  L14142      L14146      35         0.017      12.47      4.65       0          0
Link-13      DI2024      K14951      18.41      0.013      0          0.35       0          0
Link-14      DI2046      K14944      46.09      0.013      0          0.15       0          0
N.Commercial K14942      K14941      234        0.017      12.68      10.86      0          0
N.John       K14953      L14053      191        0.017      4.71       4.91       0          0
N.William    DI2024      K14952      355        0.017      3.02       5.28       0          0
Pacific      K14945      DI2046      268        0.017      11.53      2.56       0          0
Pacific_William K14954      K14951      34         0.017      11.14      3.45       0          0
S.Commercial_A L14142      L14141      330        0.017      12.47      11.57      0          0
S.Commercial_B L14141      L14143      36         0.017      11.57      11.44      0          0
S.John       L14054      L14053      200        0.017      6.6        4.91       0          0
S.William    L14152      L14151      370        0.017      10.25      8.72       0          0
SDP1         SBroadwayPond K14954      410.95811861 0.013      0          0.1        0          0
SDP10        L14143      L14JB145    85.40790915 0.013      0          0.42       0          0
SDP11        K14951      K14952      354.71353104 0.013      0          0.08000000000000001 0          0

SDP12        K14952      L14052      158.63026916 0.013      0          0.4        0          0
SDP13        L14052      L14055      223.09104012 0.013      0          0.5        0          0
SDP14        L14055      L14151      339.09603202 0.013      0          0.37       0          0
```

Existing System Initial WSEL No Inflow.inp

SDP15	L14151	L14152	369.53315621	0.013	0	0.85	0	0
SDP16	L14152	L14999	34.22873553	0.013	0	0.77	0	0
SDP17	L14999	L14JB145	260.75662555	0.013	0	0.7	0	0
SDP19	L14055	L14051	183.12768235	0.013	4.69	0	0	0
SDP2	K14954	K14945	43.12332141	0.013	0	0.05000000000000003	0	0
SDP20	L14053	L14054	199.67810886	0.013	0	0	0	0
SDP21	K14953	L14053	191.14310008	0.013	0	0.08000000000000001	0	0
SDP22	L14054	L14055	244.301283	0.013	0.07000000000000003	4.487	0	0
SDP24	L14042	L14041	19.24659539	0.013	0	6.907	0	0
SDP25	L14051	L14042	180.4767637	0.013	0	0.6	0	0
SDP26	L14146	L14142	35.18528675	0.013	0	7.778	0	0
SDP27	K14943	K14942	47.70588865	0.013	0	9	0	0
SDP28	L14JB145	L14PS1	53.05839922	0.013	0	6.45	0	0
SDP3	K14945	K14944	267.90742539	0.013	0	0.15	0	0
SDP4	K14944	K14941	92.15714564	0.013	0	0.15	0	0
SDP5	K14941	K14942	233.62246284	0.013	0	0.2	0	0
SDP6	K14942	L14041	392.68031286	0.013	0	0.12	0	0
SDP7	L14041	L14142	349.68993313	0.013	0	0.09999999999999996	0	0
SDP8	L14142	L14141	330.32958193	0.013	0	0.08000000000000001	0	0
SDP9	L14141	L14143	35.81241274	0.013	0	1.22	0	0
W.Garfield_A	L14051	L14042	181	0.017	2.32	2.77	0	0
W.Garfield_B	L14055	L14051	183	0.017	8.71	2.32	0	0
;Initial_invert_4943.53_to_4936.6_switched_direction								
W.Garfield_Junct	L14041	L14042	19	0.017	10.29	2.77	0	0
William_1A	K14952	L14052	158	0.017	5.28	6.38	0	0
William_1B	L14055	L14052	223	0.017	8.71	6.38	0	0
William_2	L14055	L14151	339	0.017	8.71	8.72	0	0
William_Pacific	K14945	K14954	43	0.017	11.53	11.14	0	0

[PUMPS]

;;	Inlet	Outlet	Pump	Initial		
;;Name	Node	Node	Curve	Status		
;;-----						
PUMP_CT-3500-135_02	L14PS1	L14JB2	PumpStation	OFF	3.5	0

[XSECTIONS]

;;Link	Type	Geom1	Geom2	Geom3	Geom4	Barrels	CulvertCode
--------	------	-------	-------	-------	-------	---------	-------------

Existing System Initial WSEL No Inflow.inp

;;-----						
Bell_A	IRREGULAR	Standard	0	1	1	1
Bell_B	IRREGULAR	Standard	0	1	1	1
Bell_C	IRREGULAR	Standard	0	1	1	1
Commercial_1	IRREGULAR	Standard	0	1	1	1
Commercial_2	IRREGULAR	Standard	0	1	1	1
Commercial_Sag	IRREGULAR	Standard	0	1	1	1
Cromwell_Junct	IRREGULAR	Standard	0	1	1	1
E.Cromwell	IRREGULAR	Standard	0	1	1	1
E.Garfield	IRREGULAR	Standard	0	1	1	1
Lewis_Junct	IRREGULAR	Standard	0	1	1	1
Link-13	CIRCULAR	1.5	0	1	1	1
Link-14	CIRCULAR	1.5	0	1	1	1
N.Commercial	IRREGULAR	Standard	0	1	1	1
N.John	IRREGULAR	Standard	0	1	1	1
N.William	IRREGULAR	Standard	0	1	1	1
Pacific	IRREGULAR	Standard	0	1	1	1
Pacific_William	IRREGULAR	Standard	0	1	1	1
S.Commercial_A	IRREGULAR	Standard	0	1	1	1
S.Commercial_B	IRREGULAR	Standard	0	1	1	1
S.John	IRREGULAR	Standard	0	1	1	1
S.William	IRREGULAR	Standard	0	1	1	1
SDP1	CIRCULAR	2.5	0	1	1	1
SDP10	CIRCULAR	4	0	1	1	1
SDP11	CIRCULAR	2	0	1	1	1
SDP12	CIRCULAR	2	0	1	1	1
SDP13	CIRCULAR	2.5	0	1	1	1
SDP14	CIRCULAR	3	0	1	1	1
SDP15	CIRCULAR	3	0	1	1	1
SDP16	CIRCULAR	4	0	1	1	1
SDP17	CIRCULAR	4	0	1	1	1
SDP19	CIRCULAR	1	0	1	1	1
SDP2	CIRCULAR	2.5	0	1	1	1
SDP20	CIRCULAR	1	0	1	1	1
SDP21	CIRCULAR	1	0	1	1	1
SDP22	CIRCULAR	1	0	1	1	1
SDP24	CIRCULAR	1.5	0	1	1	1
SDP25	CIRCULAR	1	0	1	1	1
SDP26	CIRCULAR	1.5	0	1	1	1
SDP27	CIRCULAR	1.5	0	1	1	1
SDP28	CIRCULAR	4	0	1	1	1
SDP3	CIRCULAR	2.5	0	1	1	1

1

			Existing	System	Initial	WSEL	No Inflow.inp
SDP4	CIRCULAR	2.5	0	1	1	1	
SDP5	CIRCULAR	2.5	0	1	1	1	
SDP6	CIRCULAR	2.5	0	1	1	1	
SDP7	CIRCULAR	2.5	0	1	1	1	
SDP8	CIRCULAR	2.5	0	1	1	1	
SDP9	CIRCULAR	4	0	1	1	1	
W.Garfield_A	IRREGULAR	Standard	0	1	1	1	
W.Garfield_B	IRREGULAR	Standard	0	1	1	1	
W.Garfield_Junct	IRREGULAR	Standard	0	1	1	1	
William_1A	IRREGULAR	Standard	0	1	1	1	
William_1B	IRREGULAR	Standard	0	1	1	1	
William_2	IRREGULAR	Standard	0	1	1	1	
William_Pacific	IRREGULAR	Standard	0	1	1	1	

[TRANSECTS]

;;-----

;Standard roadway section for the project with 2% cross slope, 32' full street sectionand 8" curb and gutter.

NC 0	0	0.017							
X1 Standard	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR 0.67	0	0	0.1	0.32	16	0	31.9	0.67	32

[LOSSES]

;;Link	Inlet	Outlet	Average	Flap Gate
;;-----				
Link-13	0.5	0.6	0	NO
Link-14	0.5	0.6	0	NO
SDP1	0.025	0.025	0	NO
SDP10	.025	.025	0	NO
SDP11	.025	.025	0	NO
SDP12	.025	.025	0	NO
SDP13	.025	.025	0	NO
SDP14	0.025	0.025	0	NO
SDP15	.025	.025	0	NO
SDP16	.025	.025	0	NO
SDP17	0.025	.025	0	NO
SDP19	.025	.025	0	NO
SDP2	0.025	0.025	0	NO
SDP20	.025	.025	0	NO
SDP21	0.025	.025	0	NO
SDP22	.025	.025	0	NO
SDP24	0.025	0.025	0	NO

Existing System Initial WSEL No Inflow.inp

SDP25	.025	.025	0	NO
SDP26	0.025	0.025	0	NO
SDP27	0.025	0.025	0	NO
SDP28	.025	.025	0	NO
SDP3	.025	0.025	0	NO
SDP4	0.025	0.025	0	NO
SDP5	0.025	0.025	0	NO
SDP6	0.025	0.025	0	NO
SDP7	.025	.025	0	NO
SDP8	0.025	.025	0	NO
SDP9	.025	.025	0	NO

[INFLOWS]

;;							
;;Node	Parameter	Time Series	Param Type	Units Factor	Scale Factor	Baseline Value	Baseline Pattern
DI2024	FLOW	UH-B2	FLOW	1.0	1.0		
DI2046	FLOW	UH-B1	FLOW	1.0	1.0		
K14941	FLOW	UH-B3	FLOW	1.0	1.0		
K14952	FLOW	UH-B4	FLOW	1.0	1.0		
K14953	FLOW	UH-B5	FLOW	1.0	1.0		
L14042	FLOW	UH-B6	FLOW	1.0	1.0		
L14052	FLOW	UH-B7	FLOW	1.0	1.0		
L14053	FLOW	UH-B8	FLOW	1.0	1.0		
L14055	FLOW	UH-B9	FLOW	1.0	1.0		
L14142	FLOW	UH-B10	FLOW	1.0	1.0		
L14143	FLOW	UH-B12	FLOW	1.0	1.0		
L14151	FLOW	UH-B11	FLOW	1.0	1.0		
L14152	FLOW	UH-B13	FLOW	1.0	1.0		

[CURVES]

;;Name	Type	X-Value	Y-Value
L14PS1	Storage	0	0
L14PS1		25	496
SB.DepthArea	Storage	0	0
SB.DepthArea		3.94	21780
SB.DepthArea		4.42	43560
SB.DepthArea		5.19	65340
SB.DepthArea		8.74	87120
SB.DepthArea		14.36	108900

SB.DepthArea		16.54	Existing System Initial WSEL No Inflow.inp 121968
PumpStation	Pump3	26.5	80
PumpStation		28	75
PumpStation		29.5	70
PumpStation		31.5	65
PumpStation		32	60
PumpStation		33	55
PumpStation		33.5	50
PumpStation		35	45
PumpStation		37	40
PumpStation		47	0

[TIMESERIES]

;;Name	Date	Time	Value
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;;-----

;Unit hydrograph for sub-basin #1 developed using COA DPM Modified Rational Method.

UH-B1	5/6/2016	0:00	0
UH-B1	5/6/2016	00:12	10.21
UH-B1	5/6/2016	00:24	10.21
UH-B1	5/6/2016	00:43	0

;Unit hydrograph for sub-basin #10 using COA DPM Modified Rational Method.

UH-B10	5/6/2016	0:00	0
UH-B10	5/6/2016	0:14	5.03
UH-B10	5/6/2016	0:21	5.03
UH-B10	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #11 using COA DPM Modified Rational Method.

UH-B11	5/6/2016	0:00	0
UH-B11	5/6/2016	0:15	17.84
UH-B11	5/6/2016	0:19	17.84
UH-B11	5/6/2016	0:45	0

;Unit hydrograph for sub-basin 12 using COA DPM Modified Rational Method.

UH-B12	5/6/2016	0:00	0
UH-B12	5/6/2016	0:14	7.08
UH-B12	5/6/2016	0:20	7.08
UH-B12	5/6/2016	0:45	0

;Unit hydrograph for sub-basin 13 using COA DPM Modified Rational Method.

UH-B13	5/6/2016	0:00	0
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Existing System Initial WSEL No Inflow.inp

UH-B13	5/6/2016	0:14	26.51
UH-B13	5/6/2016	0:21	26.51
UH-B13	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #2 using COA DPM Modified Rational Method.

UH-B2	5/6/2016	0:00	0
UH-B2	5/6/2016	0:14	21.48
UH-B2	5/6/2016	0:21	21.48
UH-B2	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #3 using COA DPM Modified Rational Method.

UH-B3	5/6/2016	0:00	0
UH-B3	5/6/2016	0:14	6.43
UH-B3	5/6/2016	0:20	6.43
UH-B3	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #4 using COA DPM Modified Rational Method.

UH-B4	5/6/2016	0:00	0
UH-B4	5/6/2016	0:14	6.96
UH-B4	5/6/2016	0:21	6.96
UH-B4	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #5 using COA DPM Modified Rational Method

UH-B5	5/6/2016	0:00	0
UH-B5	5/6/2016	0:14	14.64
UH-B5	5/6/2016	0:21	14.64
UH-B5	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #6 using COA DPM Modified Rational Method.

UH-B6	5/6/2016	0:00	0
UH-B6	5/6/2016	0:14	11.73
UH-B6	5/6/2016	0:21	11.73
UH-B6	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #7 using COA DPM Modified Rational Method.

UH-B7	5/6/2016	0:00	0
UH-B7	5/6/2016	0:14	9.15
UH-B7	5/6/2016	0:21	9.15
UH-B7	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #8 using COA DPM Modified Rational Method.

UH-B8	5/6/2016	0:00	0
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Existing System Initial WSEL No Inflow.inp

UH-B8	5/6/2016	0:14	8.71
UH-B8	5/6/2016	0:21	8.71
UH-B8	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #9 using COA DPM Modified Rational Method.

UH-B9	5/6/2016	0:00	0
UH-B9	5/6/2016	0:14	11.05
UH-B9	5/6/2016	0:21	11.05
UH-B9	5/6/2016	0:45	0

[REPORT]

INPUT	YES
CONTROLS	YES

[TAGS]

[MAP]

DIMENSIONS	1520848.93	1481094.56	1521757.51	1483178.35
UNITS	Feet			

[COORDINATES]

;Node	X-Coord	Y-Coord
DI2024	1521464.40	1482627.25
DI2046	1521132.64	1482625.37
K14941	1521127.10	1482521.88
K14942	1521091.60	1482287.96
K14943	1521139.22	1482285.17
K14944	1521142.93	1482609.67
K14945	1521410.07	1482629.98
K14951	1521435.40	1482633.43
K14952	1521444.18	1482278.82
K14953	1521650.77	1482287.06
K14954	1521432.24	1482666.96
L14041	1521030.20	1481900.11
L14042	1521049.29	1481897.72
L14051	1521229.76	1481896.04
L14052	1521448.09	1482120.24
L14053	1521654.92	1482095.97
L14054	1521657.12	1481896.30
L14055	1521412.85	1481899.95
L14141	1520921.98	1481228.76
L14142	1520974.20	1481554.94

Existing System Initial WSEL No Inflow.inp

L14143	1520918.32	1481193.13
L14146	1521008.94	1481549.41
L14151	1521357.36	1481565.42
L14152	1521298.17	1481200.66
L14999	1521264.33	1481195.52
L14JB145	1521003.65	1481189.28
L14JB2	1520997.60	1481244.15
L14PS1	1520997.73	1481242.01
SBroadwayPond	1521439.08	1483083.63

[VERTICES]

;;Link	X-Coord	Y-Coord
Bell_A	1520962.58	1481217.12
Bell_B	1521135.35	1481250.80
Bell_C	1521271.32	1481233.96
Commercial_1	1521006.17	1482100.16
Commercial_2	1520943.12	1481714.30
Commercial_Sag	1521091.07	1482563.31
Cromwell_Junct	1521113.77	1482303.59
E.Cromwell	1521561.32	1482327.70
E.Garfield	1521540.07	1481972.68
Lewis_Junct	1521002.71	1481579.91
N.Commercial	1521030.16	1482398.29
N.John	1521705.92	1482179.23
N.William	1521487.30	1482435.30
Pacific	1521246.24	1482667.33
Pacific_William	1521465.12	1482651.40
S.Commercial_A	1520895.83	1481387.38
S.Commercial_B	1520890.23	1481220.24
S.John	1521716.21	1482043.27
S.William	1521398.89	1481381.21
W.Garfield_A	1521152.26	1481980.28
W.Garfield_B	1521238.51	1481985.02
W.Garfield_Junct	1521043.84	1481915.03
William_1A	1521513.22	1482191.70
William_1B	1521505.12	1482095.36
William_2	1521448.92	1481693.74
William_Pacific	1521394.65	1482667.62

[PROFILES]

;;Name	Links
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;;-----
"SouthBroadwaytoPump" SDP1 SDP2 SDP3 SDP4 SDP5
"SouthBroadwaytoPump" SDP6 SDP7 SDP8 SDP9 SDP10
"SouthBroadwaytoPump" SDP28
"SouthBroadway Pond to Pump Station through Road" SDP1 William_Pacific Pacific_Commercial SDP4 SDP5
"SouthBroadway Pond to Pump Station through Road" SDP6 SDP7 SDP8 SDP9 SDP10
"SouthBroadway Pond to Pump Station through Road" SDP28
" SDP1 Williams_Pacific SDP4 SDP5 SDP6
" SDP7 SDP8 SDP9 SDP10 SDP28
"SouthBroadway Street Profile" SDP1 Williams_Pacific SDP4 SDP5 SDP6
"SouthBroadway Street Profile" SDP7 SDP8 SDP9 SDP10 SDP28
"FullStreet" SDP1 Williams_Pacific Commercial SDP5 SDP6
"FullStreet" SDP7 SDP8 SDP9 SDP10 SDP28

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EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.

Analysis Options

Flow Units CFS

Process Models:

Rainfall/Runoff NO

Snowmelt NO

Groundwater NO

Flow Routing YES

Ponding Allowed NO

Water Quality NO

Flow Routing Method DYNWAVE

Starting Date MAY-06-2016 00:00:00

Ending Date MAY-06-2016 06:00:00

Antecedent Dry Days 0.0

Report Time Step 00:00:15

Routing Time Step 15.00 sec

WARNING 04: minimum elevation drop used for Conduit Bell_C

WARNING 04: minimum elevation drop used for Conduit Lewis_Junct

WARNING 02: maximum depth increased for Node L14051

WARNING 02: maximum depth increased for Node L14053

Element Count

Number of rain gages 0

Number of subcatchments ... 0
 Number of nodes 29
 Number of links 55
 Number of pollutants 0
 Number of land uses 0

Node Summary

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
DI2024	JUNCTION	4945.64	3.87	0.0	Yes
DI2046	JUNCTION	4945.39	3.50	0.0	Yes
K14941	JUNCTION	4937.35	11.75	0.0	Yes
K14942	JUNCTION	4936.82	13.35	0.0	
K14943	JUNCTION	4946.02	3.75	0.0	
K14944	JUNCTION	4937.60	11.85	0.0	
K14945	JUNCTION	4937.94	12.20	0.0	
K14951	JUNCTION	4945.21	4.60	0.0	
K14952	JUNCTION	4943.04	6.05	0.0	Yes
K14953	JUNCTION	4945.46	5.57	0.0	Yes
K14954	JUNCTION	4937.94	11.81	0.0	
L14041	JUNCTION	4936.60	11.17	0.0	
L14042	JUNCTION	4943.53	3.70	0.0	Yes
L14051	JUNCTION	4944.35	2.99	0.0	
L14052	JUNCTION	4941.40	7.23	0.0	Yes
L14053	JUNCTION	4944.98	5.58	0.0	Yes
L14054	JUNCTION	4944.59	7.27	0.0	
L14055	JUNCTION	4939.88	9.56	0.0	Yes
L14141	JUNCTION	4936.08	12.24	0.0	
L14142	JUNCTION	4935.24	13.23	0.0	Yes
L14143	JUNCTION	4935.66	12.35	0.0	Yes
L14146	JUNCTION	4943.06	5.41	0.0	
L14151	JUNCTION	4939.08	9.82	0.0	Yes
L14152	JUNCTION	4937.58	11.05	0.0	Yes
L14999	JUNCTION	4937.30	11.28	0.0	
L14JB145	JUNCTION	4934.73	13.55	0.0	
L14JB2	OUTFALL	4952.21	0.00	0.0	
L14PS1	STORAGE	4926.99	22.67	0.0	
SBroadwayPond	STORAGE	4938.42	15.25	0.0	

Existing System Initial WSEL No Inflow.rpt

Link Summary

Name	From Node	To Node	Type	Length	%Slope	Roughness
Bell_A	L14JB145	L14143	CONDUIT	86.0	0.5930	0.0170
Bell_B	L14999	L14JB145	CONDUIT	261.0	0.0843	0.0170
Bell_C	L14152	L14999	CONDUIT	35.0	0.0029	0.0170
Commercial_1	K14942	L14041	CONDUIT	393.0	0.6641	0.0170
Commercial_2	L14142	L14041	CONDUIT	350.0	0.2343	0.0170
Commercial_Sag	K14941	DI2046	CONDUIT	92.2	0.2821	0.0170
Cromwell_Junct	K14942	K14943	CONDUIT	48.0	0.9792	0.0170
E.Cromwell	K14953	K14952	CONDUIT	170.0	1.0883	0.0170
E.Garfield	L14054	L14055	CONDUIT	244.0	1.0656	0.0170
Lewis_Junct	L14142	L14146	CONDUIT	35.0	0.0029	0.0170
Link-13	DI2024	K14951	CONDUIT	18.4	0.4346	0.0130
Link-14	DI2046	K14944	CONDUIT	46.1	16.8088	0.0130
N.Commercial	K14942	K14941	CONDUIT	234.0	0.5513	0.0170
N.John	K14953	L14053	CONDUIT	191.0	0.1466	0.0170
N.William	DI2024	K14952	CONDUIT	355.0	0.0958	0.0170
Pacific	K14945	DI2046	CONDUIT	268.0	0.5672	0.0170
Pacific_William	K14954	K14951	CONDUIT	34.0	1.2354	0.0170
S.Commercial_A	L14142	L14141	CONDUIT	330.0	0.0182	0.0170
S.Commercial_B	L14141	L14143	CONDUIT	36.0	1.5280	0.0170
S.John	L14054	L14053	CONDUIT	200.0	0.6500	0.0170
S.William	L14152	L14151	CONDUIT	370.0	0.0081	0.0170
SDP1	SBroadwayPond	K14954	CONDUIT	411.0	0.0925	0.0130
SDP10	L14143	L14JB145	CONDUIT	85.4	0.5971	0.0130
SDP11	K14951	K14952	CONDUIT	354.7	0.5892	0.0130
SDP12	K14952	L14052	CONDUIT	158.6	0.7817	0.0130
SDP13	L14052	L14055	CONDUIT	223.1	0.4572	0.0130
SDP14	L14055	L14151	CONDUIT	339.1	0.1268	0.0130
SDP15	L14151	L14152	CONDUIT	369.5	0.1759	0.0130
SDP16	L14999	L14152	CONDUIT	34.2	1.4317	0.0130
SDP17	L14999	L14JB145	CONDUIT	260.8	0.7172	0.0130
SDP19	L14055	L14051	CONDUIT	183.1	0.1201	0.0130
SDP2	K14945	K14954	CONDUIT	43.1	0.1159	0.0130
SDP20	L14053	L14054	CONDUIT	199.7	0.1953	0.0130
SDP21	K14953	L14053	CONDUIT	191.1	0.2093	0.0130
SDP22	L14054	L14055	CONDUIT	244.3	0.1199	0.0130

Existing System Initial WSEL No Inflow.rpt						
SDP24	L14042	L14041	CONDUIT	19.2	0.1195	0.0130
SDP25	L14051	L14042	CONDUIT	180.5	0.1219	0.0130
SDP26	L14146	L14142	CONDUIT	35.2	0.1194	0.0130
SDP27	K14943	K14942	CONDUIT	47.7	0.4192	0.0130
SDP28	L14JB145	L14PS1	CONDUIT	53.1	2.4320	0.0130
SDP3	K14945	K14944	CONDUIT	267.9	0.0709	0.0130
SDP4	K14944	K14941	CONDUIT	92.2	0.1085	0.0130
SDP5	K14941	K14942	CONDUIT	233.6	0.1413	0.0130
SDP6	K14942	L14041	CONDUIT	392.7	0.0255	0.0130
SDP7	L14041	L14142	CONDUIT	349.7	0.3603	0.0130
SDP8	L14141	L14142	CONDUIT	330.3	0.2785	0.0130
SDP9	L14143	L14141	CONDUIT	35.8	2.2344	0.0130
W.Garfield_A	L14051	L14042	CONDUIT	181.0	0.2044	0.0170
W.Garfield_B	L14055	L14051	CONDUIT	183.0	1.0492	0.0170
W.Garfield_Junct	L14041	L14042	CONDUIT	19.0	3.1068	0.0170
William_1A	K14952	L14052	CONDUIT	158.0	0.3418	0.0170
William_1B	L14055	L14052	CONDUIT	223.0	0.3632	0.0170
William_2	L14055	L14151	CONDUIT	339.0	0.2330	0.0170
William_Pacific	K14945	K14954	CONDUIT	43.0	0.9070	0.0170
PUMP_CT-3500-135_02	L14PS1	L14JB2	TYPE3 PUMP			

Cross Section Summary

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
Bell_A	Standard	0.67	16.28	0.49	32.00	1	68.05
Bell_B	Standard	0.67	16.28	0.49	32.00	1	25.66
Bell_C	Standard	0.67	16.28	0.49	32.00	1	4.72
Commercial_1	Standard	0.67	16.28	0.49	32.00	1	72.02
Commercial_2	Standard	0.67	16.28	0.49	32.00	1	42.77
Commercial_Sag	Standard	0.67	16.28	0.49	32.00	1	46.94
Cromwell_Junct	Standard	0.67	16.28	0.49	32.00	1	87.44
E.Cromwell	Standard	0.67	16.28	0.49	32.00	1	92.19
E.Garfield	Standard	0.67	16.28	0.49	32.00	1	91.22
Lewis_Junct	Standard	0.67	16.28	0.49	32.00	1	4.72
Link-13	CIRCULAR	1.50	1.77	0.38	1.50	1	6.92
Link-14	CIRCULAR	1.50	1.77	0.38	1.50	1	43.07
N.Commercial	Standard	0.67	16.28	0.49	32.00	1	65.61
N.John	Standard	0.67	16.28	0.49	32.00	1	33.83

		Existing System Initial WSEL No Inflow.rpt					
N.William	Standard	0.67	16.28	0.49	32.00	1	27.35
Pacific	Standard	0.67	16.28	0.49	32.00	1	66.55
Pacific_William	Standard	0.67	16.28	0.49	32.00	1	98.22
S.Commercial_A	Standard	0.67	16.28	0.49	32.00	1	11.92
S.Commercial_B	Standard	0.67	16.28	0.49	32.00	1	109.23
S.John	Standard	0.67	16.28	0.49	32.00	1	71.25
S.William	Standard	0.67	16.28	0.49	32.00	1	7.96
SDP1	CIRCULAR	2.50	4.91	0.63	2.50	1	12.47
SDP10	CIRCULAR	4.00	12.57	1.00	4.00	1	111.00
SDP11	CIRCULAR	2.00	3.14	0.50	2.00	1	17.37
SDP12	CIRCULAR	2.00	3.14	0.50	2.00	1	20.00
SDP13	CIRCULAR	2.50	4.91	0.63	2.50	1	27.73
SDP14	CIRCULAR	3.00	7.07	0.75	3.00	1	23.75
SDP15	CIRCULAR	3.00	7.07	0.75	3.00	1	27.97
SDP16	CIRCULAR	4.00	12.57	1.00	4.00	1	171.87
SDP17	CIRCULAR	4.00	12.57	1.00	4.00	1	121.64
SDP19	CIRCULAR	1.00	0.79	0.25	1.00	1	1.23
SDP2	CIRCULAR	2.50	4.91	0.63	2.50	1	13.97
SDP20	CIRCULAR	1.00	0.79	0.25	1.00	1	1.57
SDP21	CIRCULAR	1.00	0.79	0.25	1.00	1	1.63
SDP22	CIRCULAR	1.00	0.79	0.25	1.00	1	1.23
SDP24	CIRCULAR	1.50	1.77	0.38	1.50	1	3.63
SDP25	CIRCULAR	1.00	0.79	0.25	1.00	1	1.24
SDP26	CIRCULAR	1.50	1.77	0.38	1.50	1	3.63
SDP27	CIRCULAR	1.50	1.77	0.38	1.50	1	6.80
SDP28	CIRCULAR	4.00	12.57	1.00	4.00	1	224.01
SDP3	CIRCULAR	2.50	4.91	0.63	2.50	1	10.92
SDP4	CIRCULAR	2.50	4.91	0.63	2.50	1	13.51
SDP5	CIRCULAR	2.50	4.91	0.63	2.50	1	15.42
SDP6	CIRCULAR	2.50	4.91	0.63	2.50	1	6.55
SDP7	CIRCULAR	2.50	4.91	0.63	2.50	1	24.62
SDP8	CIRCULAR	2.50	4.91	0.63	2.50	1	21.65
SDP9	CIRCULAR	4.00	12.57	1.00	4.00	1	214.72
W.Garfield_A	Standard	0.67	16.28	0.49	32.00	1	39.95
W.Garfield_B	Standard	0.67	16.28	0.49	32.00	1	90.52
W.Garfield_Junct	Standard	0.67	16.28	0.49	32.00	1	155.76
William_1A	Standard	0.67	16.28	0.49	32.00	1	51.66
William_1B	Standard	0.67	16.28	0.49	32.00	1	53.26
William_2	Standard	0.67	16.28	0.49	32.00	1	42.66
William_Pacific	Standard	0.67	16.28	0.49	32.00	1	84.16

Transect Summary

Transect Standard

Area:

0.0005	0.0022	0.0049	0.0088	0.0137
0.0198	0.0269	0.0352	0.0445	0.0550
0.0665	0.0791	0.0929	0.1077	0.1236
0.1407	0.1588	0.1780	0.1984	0.2198
0.2423	0.2660	0.2907	0.3165	0.3428
0.3690	0.3953	0.4215	0.4478	0.4740
0.5003	0.5266	0.5528	0.5791	0.6054
0.6317	0.6580	0.6843	0.7106	0.7369
0.7632	0.7895	0.8158	0.8421	0.8684
0.8947	0.9210	0.9473	0.9737	1.0000

Hrad:

0.0134	0.0268	0.0402	0.0536	0.0670
0.0805	0.0939	0.1073	0.1207	0.1341
0.1475	0.1609	0.1743	0.1877	0.2011
0.2145	0.2279	0.2414	0.2548	0.2682
0.2816	0.2950	0.3084	0.3234	0.3499
0.3764	0.4028	0.4292	0.4556	0.4819
0.5082	0.5344	0.5606	0.5868	0.6129
0.6390	0.6650	0.6910	0.7170	0.7429
0.7688	0.7947	0.8205	0.8462	0.8719
0.8976	0.9233	0.9489	0.9745	1.0000

Width:

0.0417	0.0835	0.1252	0.1670	0.2087
0.2504	0.2922	0.3339	0.3756	0.4174
0.4591	0.5009	0.5426	0.5843	0.6261
0.6678	0.7096	0.7513	0.7930	0.8348
0.8765	0.9182	0.9600	0.9968	0.9969
0.9970	0.9971	0.9972	0.9974	0.9975
0.9976	0.9977	0.9979	0.9980	0.9981
0.9983	0.9984	0.9985	0.9986	0.9988
0.9989	0.9990	0.9991	0.9992	0.9994
0.9995	0.9996	0.9998	0.9999	1.0000

Control Actions Taken

*****	Volume	Volume
Flow Routing Continuity	acre-feet	10^6 gal
*****	-----	-----
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.000	0.000
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	5.591	1.822
External Outflow	18.610	6.064
Internal Outflow	2.144	0.699
Storage Losses	0.000	0.000
Initial Stored Volume	23.467	7.647
Final Stored Volume	8.203	2.673
Continuity Error (%)	0.348	

Highest Continuity Errors

Node L14051 (-4.50%)

Time-Step Critical Elements

Link SDP9 (86.90%)

Link SDP24 (3.01%)

Link William_Pacific (2.56%)

Link Link-13 (2.50%)

Link W.Garfield_Junct (2.24%)

Highest Flow Instability Indexes

Link SDP9 (5)

Link SDP10 (4)

Link SDP28 (3)

Link SDP11 (2)
Link Link-13 (1)

Routing Time Step Summary

Minimum Time Step : 0.50 sec
Average Time Step : 2.16 sec
Maximum Time Step : 15.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 2.14

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
DI2024	JUNCTION	0.46	3.84	4949.48	0 00:21
DI2046	JUNCTION	0.93	3.50	4948.89	0 00:20
K14941	JUNCTION	8.16	11.55	4948.90	0 00:21
K14942	JUNCTION	7.42	11.45	4948.27	0 00:21
K14943	JUNCTION	0.15	2.25	4948.27	0 00:21
K14944	JUNCTION	8.42	11.32	4948.92	0 00:21
K14945	JUNCTION	9.46	11.62	4949.56	0 00:50
K14951	JUNCTION	0.56	4.53	4949.74	0 00:16
K14952	JUNCTION	0.60	6.05	4949.09	0 00:16
K14953	JUNCTION	0.58	5.07	4950.53	0 00:20
K14954	JUNCTION	9.75	11.81	4949.75	0 00:16
L14041	JUNCTION	5.58	10.66	4947.26	0 00:20
L14042	JUNCTION	0.31	3.70	4947.23	0 00:19
L14051	JUNCTION	0.20	2.95	4947.30	0 00:21
L14052	JUNCTION	0.66	7.23	4948.63	0 00:16
L14053	JUNCTION	0.62	5.58	4950.56	0 00:17
L14054	JUNCTION	0.55	5.02	4949.61	0 00:23
L14055	JUNCTION	0.79	8.56	4948.44	0 00:21
L14141	JUNCTION	2.49	10.58	4946.66	0 00:21

Existing System Initial WSEL No Inflow.rpt

L14142	JUNCTION	5.07	11.84	4947.08	0	00:20
L14143	JUNCTION	2.02	11.00	4946.66	0	00:21
L14146	JUNCTION	0.18	4.02	4947.08	0	00:20
L14151	JUNCTION	0.78	9.02	4948.10	0	00:24
L14152	JUNCTION	1.15	9.58	4947.16	0	00:21
L14999	JUNCTION	0.72	9.79	4947.09	0	00:21
L14JB145	JUNCTION	1.76	11.91	4946.64	0	00:21
L14JB2	OUTFALL	0.00	0.00	4952.21	0	00:00
L14PS1	STORAGE	1.73	19.45	4946.44	0	00:21
SBroadwayPond	STORAGE	11.76	15.25	4953.67	0	00:00

Node Inflow Summary

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
DI2024	JUNCTION	21.48	28.31	0 00:16	0.250	0.385
DI2046	JUNCTION	10.21	12.95	0 00:14	0.126	0.154
K14941	JUNCTION	6.43	47.59	0 00:03	0.074	4.691
K14942	JUNCTION	0.00	44.21	0 00:02	0.000	4.673
K14943	JUNCTION	0.00	0.57	0 00:12	0.000	0.001
K14944	JUNCTION	0.00	46.18	0 00:03	0.000	4.527
K14945	JUNCTION	0.00	65.25	0 00:00	0.000	5.171
K14951	JUNCTION	0.00	25.21	0 00:51	0.000	0.466
K14952	JUNCTION	6.96	67.70	0 00:16	0.081	0.952
K14953	JUNCTION	14.64	20.21	0 00:18	0.171	0.216
K14954	JUNCTION	0.00	79.95	0 00:17	0.000	5.709
L14041	JUNCTION	0.00	38.63	0 00:10	0.000	4.752
L14042	JUNCTION	11.73	41.84	0 00:20	0.137	0.262
L14051	JUNCTION	0.00	11.61	0 00:18	0.000	0.043
L14052	JUNCTION	9.15	68.86	0 00:20	0.107	1.049
L14053	JUNCTION	8.71	11.77	0 00:13	0.102	0.121
L14054	JUNCTION	0.00	4.50	0 00:06	0.000	0.074
L14055	JUNCTION	11.05	46.99	0 00:13	0.129	0.831
L14141	JUNCTION	0.00	40.79	0 00:10	0.000	4.688
L14142	JUNCTION	5.03	41.43	0 00:10	0.059	4.705

		Existing	System	Initial	WSEL	No Inflow.rpt	
L14143	JUNCTION	7.08	45.44	0	00:58	0.081	4.764
L14146	JUNCTION	0.00	1.77	0	00:13	0.000	0.001
L14151	JUNCTION	17.84	58.37	0	00:12	0.196	0.998
L14152	JUNCTION	26.51	79.53	0	00:12	0.309	1.303
L14999	JUNCTION	0.00	76.46	0	00:12	0.000	1.303
L14JB145	JUNCTION	0.00	108.70	0	00:10	0.000	6.061
L14JB2	OUTFALL	0.00	80.00	0	00:02	0.000	6.064
L14PS1	STORAGE	0.00	99.95	0	00:09	0.000	6.063
SBroadwayPond	STORAGE	0.00	0.00	0	00:00	0.000	7.639

Node Surcharge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
DI2024	JUNCTION	0.22	0.147	0.033
DI2046	JUNCTION	0.39	0.270	0.000
K14941	JUNCTION	0.04	0.025	0.195
K14944	JUNCTION	5.98	8.670	0.530
K14951	JUNCTION	0.63	0.412	0.068
K14952	JUNCTION	0.22	0.100	0.000
K14954	JUNCTION	0.48	0.000	0.000
L14042	JUNCTION	0.48	0.260	0.000
L14052	JUNCTION	0.45	0.180	0.000
L14053	JUNCTION	0.08	0.000	0.000
L14PS1	STORAGE	0.82	9.004	3.216
SBroadwayPond	STORAGE	6.00	12.750	0.000

Node Flooding Summary

Flooding refers to all water that overflows a node, whether it ponds or not.

Total Maximum

Existing System Initial WSEL No Inflow.rpt						
Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min		Flood Volume 10^6 gal	Ponded Depth Feet
DI2046	0.11	5.81	0	00:21	0.006	3.50
K14952	0.14	10.94	0	00:16	0.014	6.05
K14954	0.47	13.41	0	00:21	0.104	11.81
L14042	0.28	41.72	0	00:20	0.139	3.70
L14052	0.42	56.56	0	00:21	0.434	7.23
L14053	0.08	0.70	0	00:20	0.001	5.58

Storage Volume Summary

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	E&I Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min		Maximum Outflow CFS
L14PS1	0.268	5	0	3.754	74	0	00:21	80.00
SBroadwayPond	659.176	65	0	1021.242	100	0	00:00	69.44

Outfall Loading Summary

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
L14JB2	99.24	36.57	80.00	6.064
System	99.24	36.57	80.00	6.064

Link Flow Summary

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Veloc ft/sec	Max/ Full Flow	Max/ Full Depth
Bell_A	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
Bell_B	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
Bell_C	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
Commercial_1	CHANNEL	0.00	0 00:00	0.00	0.00	0.28
Commercial_2	CHANNEL	0.00	0 00:00	0.00	0.00	0.28
Commercial_Sag	CHANNEL	11.22	0 00:16	0.89	0.24	1.00
Cromwell_Junct	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
E.Cromwell	CHANNEL	20.19	0 00:20	2.36	0.22	0.77
E.Garfield	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
Lewis_Junct	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
Link-13	CONDUIT	10.55	0 00:07	5.97	1.52	1.00
Link-14	CONDUIT	5.30	0 00:06	3.19	0.12	1.00
N.Commercial	CHANNEL	0.00	0 00:00	0.00	0.00	0.50
N.John	CHANNEL	5.35	0 00:23	0.68	0.16	0.77
N.William	CHANNEL	30.82	0 00:16	1.93	1.13	1.00
Pacific	CHANNEL	0.34	0 00:50	0.11	0.01	0.50
Pacific_William	CHANNEL	25.21	0 00:51	2.86	0.26	1.00
S.Commercial_A	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
S.Commercial_B	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
S.John	CHANNEL	0.00	0 00:00	0.00	0.00	0.50
S.William	CHANNEL	0.78	0 00:24	0.38	0.10	0.30
SDP1	CONDUIT	69.44	0 00:00	14.15	5.57	1.00
SDP10	CONDUIT	47.96	0 00:58	8.20	0.43	1.00
SDP11	CONDUIT	21.03	0 00:55	6.69	1.21	1.00
SDP12	CONDUIT	27.81	0 00:50	8.85	1.39	1.00
SDP13	CONDUIT	36.41	0 00:46	7.42	1.31	1.00
SDP14	CONDUIT	43.54	0 00:12	6.16	1.83	1.00
SDP15	CONDUIT	56.30	0 00:12	8.00	2.01	1.00
SDP16	CONDUIT	76.46	0 00:12	10.14	0.44	1.00
SDP17	CONDUIT	71.14	0 00:11	9.48	0.58	1.00
SDP19	CONDUIT	3.17	0 00:49	4.33	2.57	1.00
SDP2	CONDUIT	65.25	0 00:00	13.29	4.67	1.00
SDP20	CONDUIT	4.50	0 00:06	5.73	2.86	1.00
SDP21	CONDUIT	3.25	0 00:04	4.14	1.99	1.00
SDP22	CONDUIT	3.94	0 00:49	5.19	3.19	1.00
SDP24	CONDUIT	9.99	0 00:13	5.82	2.75	1.00

		Existing System Initial WSEL No Inflow.rpt					
SDP25	CONDUIT	1.64	0	00:13	2.14	1.32	1.00
SDP26	CONDUIT	1.77	0	00:13	2.31	0.49	1.00
SDP27	CONDUIT	0.57	0	00:12	1.00	0.08	1.00
SDP28	CONDUIT	99.95	0	00:09	16.69	0.45	1.00
SDP3	CONDUIT	43.72	0	00:01	8.91	4.00	1.00
SDP4	CONDUIT	46.18	0	00:03	9.41	3.42	1.00
SDP5	CONDUIT	44.21	0	00:02	9.01	2.87	1.00
SDP6	CONDUIT	34.60	0	00:04	7.06	5.29	1.00
SDP7	CONDUIT	37.53	0	00:10	7.65	1.52	1.00
SDP8	CONDUIT	40.79	0	00:10	8.48	1.88	1.00
SDP9	CONDUIT	45.44	0	00:58	8.02	0.21	1.00
W.Garfield_A	CHANNEL	9.03	0	00:22	0.71	0.23	0.97
W.Garfield_B	CHANNEL	0.00	0	00:00	0.00	0.00	0.47
W.Garfield_Junct	CHANNEL	27.43	0	00:20	2.50	0.18	0.78
William_1A	CHANNEL	47.68	0	00:25	2.93	0.92	1.00
William_1B	CHANNEL	0.07	0	00:34	0.01	0.00	0.53
William_2	CHANNEL	0.00	0	00:00	0.00	0.00	0.22
William_Pacific	CHANNEL	42.26	0	00:27	3.32	0.50	0.87
PUMP_CT-3500-135_02	PUMP	80.00	0	00:02		1.00	

Flow Classification Summary

Conduit	Adjusted /Actual Length	--- Dry	Fraction of Up Dry	Time Down Dry	in Sub Crit	Flow Sup Crit	Class Up Crit	---- Down Crit	Avg. Froude Number	Avg. Flow Change
Bell_A	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Bell_B	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Bell_C	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Commercial_1	1.00	0.95	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Commercial_2	1.00	0.95	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Commercial_Sag	1.00	0.88	0.02	0.00	0.05	0.00	0.05	0.00	0.02	0.0001
Cromwell_Junct	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
E.Cromwell	1.00	0.90	0.00	0.00	0.05	0.00	0.00	0.04	0.06	0.0000
E.Garfield	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Lewis_Junct	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Link-13	1.00	0.00	0.00	0.00	0.22	0.00	0.00	0.78	0.05	0.0013
Link-14	1.00	0.00	0.31	0.00	0.69	0.00	0.00	0.00	0.01	0.0001

	Existing System Initial WSEL No Inflow.rpt									
N.Commercial	1.00	0.94	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
N.John	1.00	0.90	0.00	0.00	0.09	0.00	0.00	0.01	0.02	0.0001
N.William	1.00	0.89	0.00	0.00	0.05	0.00	0.00	0.06	0.04	0.0004
Pacific	1.00	0.88	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Pacific_William	1.00	0.75	0.00	0.00	0.07	0.00	0.00	0.17	0.22	0.0001
S.Commercial_A	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
S.Commercial_B	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
S.John	1.00	0.91	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
S.William	1.00	0.98	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.0000
SDP1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.0009
SDP10	1.00	0.00	0.00	0.00	0.11	0.00	0.00	0.89	1.14	0.0002
SDP11	1.00	0.00	0.00	0.00	0.12	0.00	0.00	0.88	0.28	0.0007
SDP12	1.00	0.00	0.00	0.00	0.10	0.00	0.00	0.90	0.44	0.0005
SDP13	1.00	0.00	0.00	0.00	0.13	0.00	0.00	0.87	0.37	0.0004
SDP14	1.00	0.00	0.00	0.00	0.13	0.00	0.00	0.87	0.35	0.0006
SDP15	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.45	0.0005
SDP16	1.00	0.00	0.00	0.00	0.09	0.00	0.91	0.00	0.14	0.0001
SDP17	1.00	0.00	0.00	0.00	0.88	0.02	0.00	0.09	0.23	0.0001
SDP19	1.00	0.02	0.87	0.00	0.06	0.00	0.05	0.00	0.01	0.0011
SDP2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.0019
SDP20	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.0007
SDP21	1.00	0.00	0.00	0.00	0.17	0.00	0.00	0.83	0.16	0.0008
SDP22	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.94	0.34	0.0009
SDP24	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.33	0.0028
SDP25	1.00	0.01	0.01	0.00	0.12	0.00	0.00	0.86	0.26	0.0010
SDP26	1.00	0.06	0.00	0.00	0.07	0.00	0.00	0.88	0.07	0.0003
SDP27	1.00	0.03	0.00	0.00	0.11	0.00	0.00	0.85	0.06	0.0001
SDP28	1.00	0.00	0.00	0.00	0.11	0.00	0.00	0.89	2.27	0.0001
SDP3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.0011
SDP4	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.0010
SDP5	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.01	0.0007
SDP6	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.01	0.0012
SDP7	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.01	0.0005
SDP8	1.00	0.00	0.01	0.00	0.99	0.00	0.00	0.00	0.59	0.0005
SDP9	1.00	0.01	0.00	0.00	0.10	0.00	0.89	0.00	1.02	0.0001
W.Garfield_A	1.00	0.95	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.0002
W.Garfield_B	1.00	0.95	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
W.Garfield_Junct	1.00	0.95	0.01	0.00	0.04	0.00	0.00	0.00	0.01	0.0002
William_1A	1.00	0.94	0.00	0.00	0.05	0.00	0.00	0.01	0.04	0.0002
William_1B	1.00	0.95	0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.0000
William_2	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
William_Pacific	1.00	0.75	0.19	0.00	0.00	0.00	0.05	0.00	0.05	0.0001

Conduit Surcharge Summary

Conduit	Hours Full			Hours Above Full	
	Both Ends	Upstream	Dnstream	Normal Flow	Capacity Limited
Commercial_Sag	0.04	0.04	0.04	0.01	0.01
Link-13	0.85	0.85	0.85	0.54	0.14
Link-14	1.79	1.79	1.79	0.01	0.01
N.William	0.18	0.18	0.18	0.11	0.10
Pacific_William	0.47	0.47	0.48	0.01	0.01
SDP1	6.00	6.00	6.00	6.00	6.00
SDP10	0.75	0.75	0.75	0.01	0.01
SDP11	0.79	0.79	0.79	0.12	0.09
SDP12	0.76	0.76	0.76	0.26	0.19
SDP13	0.75	0.75	0.75	0.35	0.34
SDP14	0.73	0.73	0.73	0.64	0.54
SDP15	0.67	0.67	0.67	0.82	0.67
SDP16	0.64	0.64	0.64	0.01	0.01
SDP17	0.67	0.67	0.67	0.01	0.01
SDP19	0.59	0.59	0.59	0.52	0.39
SDP2	5.99	5.99	5.99	6.00	0.01
SDP20	0.88	0.88	0.88	0.86	0.83
SDP21	0.88	0.88	0.88	0.07	0.07
SDP22	0.60	0.60	0.60	0.92	0.60
SDP24	0.67	0.67	0.67	0.40	0.29
SDP25	0.64	0.64	0.64	0.01	0.01
SDP26	0.58	0.58	0.58	0.01	0.01
SDP27	0.59	0.59	0.59	0.01	0.01
SDP28	0.78	0.78	0.78	0.01	0.01
SDP3	5.98	5.98	5.98	5.67	5.66
SDP4	5.97	5.97	5.97	5.48	5.47
SDP5	5.95	5.95	5.95	5.97	5.95
SDP6	5.93	5.93	5.93	5.96	5.93
SDP7	5.93	5.93	5.93	5.53	5.52
SDP8	0.79	0.79	0.79	5.62	0.01
SDP9	0.68	0.68	0.68	0.01	0.01

		Existing System Initial WSEL No Inflow.rpt			
William_1A	0.22	0.22	0.22	0.01	0.01

Pumping Summary

Pump	Percent Utilized	Number of Start-Ups	Min Flow	Avg Flow	Max Flow	Total Volume	Power Usage	% Time Off Pump Curve	
			CFS	CFS	CFS	10^6 gal	Kw-hr	Low	High
PUMP_CT-3500-135_02	99.27	1	0.00	36.57	80.00	6.064	386.07	0.0	100.0

Analysis begun on: Tue Jan 03 07:49:09 2017
Analysis ended on: Tue Jan 03 07:49:10 2017
Total elapsed time: 00:00:01

Existing System With Inflow Hydrograph.inp

[OPTIONS]

```

FLOW_UNITS      CFS
INFILTRATION     HORTON
FLOW_ROUTING     DYNWAVE
START_DATE       05/06/2016
START_TIME       00:00:00
REPORT_START_DATE 05/06/2016
REPORT_START_TIME 00:00:00
END_DATE         05/06/2016
END_TIME         06:00:00
SWEEP_START      01/01
SWEEP_END        12/31
DRY_DAYS         0
REPORT_STEP      00:00:15
WET_STEP         00:05:00
DRY_STEP         01:00:00
ROUTING_STEP     0:00:15
ALLOW_PONDING    NO
INERTIAL_DAMPING  PARTIAL
VARIABLE_STEP    0.75
LENGTHENING_STEP 0
MIN_SURFAREA     12.557
NORMAL_FLOW_LIMITED BOTH
SKIP_STEADY_STATE NO
FORCE_MAIN_EQUATION H-W
LINK_OFFSETS     DEPTH
MIN_SLOPE        0.001

```

[JUNCTIONS]

```

;;
;;Name      Invert    Max.      Init.      Surcharge    Poned
;;          Elev.     Depth     Depth     Depth        Area
;;-----
DI2024      4945.64    3.87      0          0            0
;Max/rim_elev._is_top_of_curb_elevation.
DI2046      4945.39    3.5       0          0            0
;Rim elevation was raised to match grate elevation plus 8" curb height.
K14941      4937.35    11.75     0          0            0
;MH rim elevation changed to match lowest connecting inlet grate elevation (DI #2079 - 4949.03) plus 8" curb height.
K14942      4936.82    13.35     0          0            0
K14943      4946.02    3.75      0          0            0
K14944      4937.6     11.85     0          0            0
;Manhole rim elevation has been adjusted to the flowline elevation at the curb plus the curb height (the manhole

```

Existing System With Inflow Hydrograph.inp

;is located 11 feet from the curb at a 2% cross slope).

K14945	4937.94	12.2	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adjusted to lowest connecting inlet grate elevation (DI #2024 - 4948.66) plus 8" curb height.

K14951	4945.21	4.6	0	0	0
--------	---------	-----	---	---	---

;MH rim elevation changed to reflect lowest connecting inlet grate elevation (DI #2327 - 4948.32) plus 8" curb height.

K14952	4943.04	6.05	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2336 - 4950.17) plus 8" curb height.

K14953	4945.46	5.57	0	0	0
--------	---------	------	---	---	---

;Changed rim elevation to reflect the location of the sd inlet in the middle of the street. William Street has an inverse crown with a 2% cross slope with the sd inlet grate elevation being lower than the curb flowline. Curb elevation was determined to be at 4949.24 ft. multiplied by 2% slope results in an inlet grate elevation of 4949.04 ft. The manhole rim was then adjusted back to the curb height elevation by adding 8" to the grate elevation.

K14954	4937.94	11.81	0	0	0
--------	---------	-------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2009 - 4946.30) plus 8" curb height.

L14041	4936.6	11.17	0	0	0
--------	--------	-------	---	---	---

L14042	4943.53	3.7	0	0	0
--------	---------	-----	---	---	---

L14051	4944.35	2.95	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting grate elevation (DI #2303 - 4947.78) plus 8" curb height.

L14052	4941.40	7.23	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet elevation (DI #2344 - 4949.89) plus 8" curb height.

L14053	4944.98	5.39	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to existing rim elevation (4951.39) plus 8" curb height.

;There were no connecting inlets shown in the survey file.

L14054	4944.59	7.27	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2218 - 4948.59) plus 8" curb height.

L14055	4939.88	9.56	0	0	0
--------	---------	------	---	---	---

L14141	4936.08	12.24	0	0	0
--------	---------	-------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2134 - 4947.71) plus 8" curb height.

L14142	4935.24	13.23	0	0	0
--------	---------	-------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2156 - 4947.10) plus 8" curb height.

L14143	4935.66	12.35	0	0	0
--------	---------	-------	---	---	---

L14146	4943.06	5.41	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2210 - 4947.80) plus 8" curb height.

L14151	4939.08	9.82	0	0	0
--------	---------	------	---	---	---

;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2180 - 4947.83) plus 8" curb height.

L14152	4937.58	11.05	0	0	0
--------	---------	-------	---	---	---

L14999	4937.3	11.28	0	0	0
--------	--------	-------	---	---	---

L14JB145	4934.73	13.55	0	0	0
----------	---------	-------	---	---	---

[OUTFALLS]

;;	Invert	Outfall	Stage/Table	Tide
;;Name	Elev.	Type	Time Series	Gate

Existing System With Inflow Hydrograph.inp

```

;;-----
L14JB2      4952.21    FREE      NO
Unknown     4952      NORMAL     NO

```

[STORAGE]

```

;;
;;Name      Invert    Max.      Init.      Shape      Shape      Poned      Evap.
            Elev.     Depth     Depth     Curve     Parameters Area      Frac.
;;-----
L14PS1      4926.99    22.67     0          TABULAR    L14PS1      0          0
SBroadwayPond 4938.42    15.25     0          TABULAR    SB.DepthArea 0          0

```

[CONDUITS]

```

;;
;;Name      Inlet      Outlet      Length      Manning      Inlet      Outlet      Init.      Maximum
            Node       Node              N            Height     Height     Flow       Flow
;;-----
Bell_A      L14JB145    L14143      86           0.017        12.88      11.44      0          0
Bell_B      L14999      L14JB145    261          0.017        10.53      12.88      0          0
Bell_C      L14152      L14999      35           0.017        10.25      10.53      0          0
Commercial_1 K14942      L14041      393          0.017        12.68      10.29      0          0
Commercial_2 L14142      L14041      350          0.017        12.47      10.29      0          0
Commercial_Sag K14941      DI2046      92.157       0.017        10.86      2.56       0          0
Cromwell_Junct K14942      K14943      48           0.017        12.68      3.01       0          0
E.Cromwell   K14953      K14952      170          0.017        4.71       5.28       0          0
E.Garfield   L14054      L14055      244          0.017        6.6        8.71       0          0
Lewis_Junct  L14142      L14146      35           0.017        12.47      4.65       0          0
Link-13      DI2024      K14951      18.41        0.013        0          0.35       0          0
Link-14      DI2046      K14944      46.09        0.013        0          0.15       0          0
N.Commercial K14942      K14941      234          0.017        12.68      10.86      0          0
N.John       K14953      L14053      191          0.017        4.71       4.91       0          0
N.William    DI2024      K14952      355          0.017        3.02       5.28       0          0
Pacific      K14945      DI2046      268          0.017        11.53      2.56       0          0
Pacific_William K14954      K14951      34           0.017        11.14      3.45       0          0
S.Commercial_A L14142      L14141      330          0.017        12.47      11.57      0          0
S.Commercial_B L14141      L14143      36           0.017        11.57      11.44      0          0
S.John       L14054      L14053      200          0.017        6.6        4.91       0          0
S.William    L14152      L14151      370          0.017        10.25      8.72       0          0
SDP1         SBroadwayPond K14954      410.95811861 0.013        0          0.1        0          0
SDP10        L14143      L14JB145    85.40790915 0.013        0          0.42       0          0
SDP11        K14951      K14952      354.71353104 0.013        0          0.08000000000000001 0          0

SDP12        K14952      L14052      158.63026916 0.013        0          0.4        0          0
SDP13        L14052      L14055      223.09104012 0.013        0          0.5        0          0

```

Existing System With Inflow Hydrograph.inp

SDP14	L14055	L14151	339.09603202	0.013	0	0.37	0	0
SDP15	L14151	L14152	369.53315621	0.013	0	0.85	0	0
SDP16	L14152	L14999	34.22873553	0.013	0	0.77	0	0
SDP17	L14999	L14JB145	260.75662555	0.013	0	0.7	0	0
SDP19	L14055	L14051	183.12768235	0.013	4.69	0	0	0
SDP2	K14954	K14945	43.12332141	0.013	0	0.05000000000000003	0	0
SDP20	L14053	L14054	199.67810886	0.013	0	0	0	0
SDP21	K14953	L14053	191.14310008	0.013	0	0.08000000000000001	0	0
SDP22	L14054	L14055	244.301283	0.013	0.07000000000000003	4.487	0	0
SDP24	L14042	L14041	19.24659539	0.013	0	6.907	0	0
SDP25	L14051	L14042	180.4767637	0.013	0	0.6	0	0
SDP26	L14146	L14142	35.18528675	0.013	0	7.778	0	0
SDP27	K14943	K14942	47.70588865	0.013	0	9	0	0
SDP28	L14JB145	L14PS1	53.05839922	0.013	0	6.45	0	0
SDP3	K14945	K14944	267.90742539	0.013	0	0.15	0	0
SDP4	K14944	K14941	92.15714564	0.013	0	0.15	0	0
SDP5	K14941	K14942	233.62246284	0.013	0	0.2	0	0
SDP6	K14942	L14041	392.68031286	0.013	0	0.12	0	0
SDP7	L14041	L14142	349.68993313	0.013	0	0.09999999999999996	0	0
SDP8	L14142	L14141	330.32958193	0.013	0	0.08000000000000001	0	0
SDP9	L14141	L14143	35.81241274	0.013	0	1.22	0	0
W.Garfield_A	L14051	L14042	181	0.017	2.32	2.77	0	0
W.Garfield_B	L14055	L14051	183	0.017	8.71	2.32	0	0
;Initial_invert_4943.53_to_4936.6_switched_direction								
W.Garfield_Junct	L14041	L14042	19	0.017	10.29	2.77	0	0
William_1A	K14952	L14052	158	0.017	5.28	6.38	0	0
William_1B	L14055	L14052	223	0.017	8.71	6.38	0	0
William_2	L14055	L14151	339	0.017	8.71	8.72	0	0
William_Pacific	K14945	K14954	43	0.017	11.53	11.14	0	0

[PUMPS]

;;	Inlet	Outlet	Pump	Initial		
;;Name	Node	Node	Curve	Status		
;;-----						
PUMP_CT-3500-135_02	L14PS1	L14JB2	PumpStation	OFF	3.5	0

[WEIRS]

Existing System With Inflow Hydrograph.inp

;;	Inlet	Outlet		Crest	Disch.	Flap End	End	
;;Name	Node	Node	Type	Height	Coeff.	Gate	Coeff.	Con.
EmergencySpillway	SBroadwayPond	Unknown	TRANSVERSE	14.32	1.7	NO	0	2.60

[XSECTIONS]

;;Link	Type	Geom1	Geom2	Geom3	Geom4	Barrels	CulvertCode
Bell_A	IRREGULAR	Standard	0	1	1	1	
Bell_B	IRREGULAR	Standard	0	1	1	1	
Bell_C	IRREGULAR	Standard	0	1	1	1	
Commercial_1	IRREGULAR	Standard	0	1	1	1	
Commercial_2	IRREGULAR	Standard	0	1	1	1	
Commercial_Sag	IRREGULAR	Standard	0	1	1	1	
Cromwell_Junct	IRREGULAR	Standard	0	1	1	1	
E.Cromwell	IRREGULAR	Standard	0	1	1	1	
E.Garfield	IRREGULAR	Standard	0	1	1	1	
Lewis_Junct	IRREGULAR	Standard	0	1	1	1	
Link-13	CIRCULAR	1.5	0	1	1	1	
Link-14	CIRCULAR	1.5	0	1	1	1	
N.Commercial	IRREGULAR	Standard	0	1	1	1	
N.John	IRREGULAR	Standard	0	1	1	1	
N.William	IRREGULAR	Standard	0	1	1	1	
Pacific	IRREGULAR	Standard	0	1	1	1	
Pacific_William	IRREGULAR	Standard	0	1	1	1	
S.Commercial_A	IRREGULAR	Standard	0	1	1	1	
S.Commercial_B	IRREGULAR	Standard	0	1	1	1	
S.John	IRREGULAR	Standard	0	1	1	1	
S.William	IRREGULAR	Standard	0	1	1	1	
SDP1	CIRCULAR	2.5	0	1	1	1	
SDP10	CIRCULAR	4	0	1	1	1	
SDP11	CIRCULAR	2	0	1	1	1	1
SDP12	CIRCULAR	2	0	1	1	1	
SDP13	CIRCULAR	2.5	0	1	1	1	
SDP14	CIRCULAR	3	0	1	1	1	
SDP15	CIRCULAR	3	0	1	1	1	
SDP16	CIRCULAR	4	0	1	1	1	
SDP17	CIRCULAR	4	0	1	1	1	
SDP19	CIRCULAR	1	0	1	1	1	
SDP2	CIRCULAR	2.5	0	1	1	1	
SDP20	CIRCULAR	1	0	1	1	1	
SDP21	CIRCULAR	1	0	1	1	1	

Existing System With Inflow Hydrograph.inp

SDP22	CIRCULAR	1	0	1	1	1
SDP24	CIRCULAR	1.5	0	1	1	1
SDP25	CIRCULAR	1	0	1	1	1
SDP26	CIRCULAR	1.5	0	1	1	1
SDP27	CIRCULAR	1.5	0	1	1	1
SDP28	CIRCULAR	4	0	1	1	1
SDP3	CIRCULAR	2.5	0	1	1	1
SDP4	CIRCULAR	2.5	0	1	1	1
SDP5	CIRCULAR	2.5	0	1	1	1
SDP6	CIRCULAR	2.5	0	1	1	1
SDP7	CIRCULAR	2.5	0	1	1	1
SDP8	CIRCULAR	2.5	0	1	1	1
SDP9	CIRCULAR	4	0	1	1	1
W.Garfield_A	IRREGULAR	Standard	0	1	1	1
W.Garfield_B	IRREGULAR	Standard	0	1	1	1
W.Garfield_Junct	IRREGULAR	Standard	0	1	1	1
William_1A	IRREGULAR	Standard	0	1	1	1
William_1B	IRREGULAR	Standard	0	1	1	1
William_2	IRREGULAR	Standard	0	1	1	1
William_Pacific	IRREGULAR	Standard	0	1	1	1
EmergencySpillway	RECT_OPEN	1	73	1	1	

[TRANSECTS]

```
;;-----
```

;Standard roadway section for the project with 2% cross slope, 32' full street section and 8" curb and gutter.

NC	0	0.017							
X1	Standard	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	0.67	0	0.1	0.32	16	0	31.9	0.67	32

[LOSSES]

```
;;Link      Inlet      Outlet      Average      Flap Gate
;;-----
```

Link-13	0.5	0.6	0	NO
Link-14	0.5	0.6	0	NO
SDP1	0.025	0.025	0	NO
SDP10	.025	.025	0	NO
SDP11	.025	.025	0	NO
SDP12	.025	.025	0	NO
SDP13	.025	.025	0	NO
SDP14	0.025	0.025	0	NO
SDP15	.025	.025	0	NO

Existing System With Inflow Hydrograph.inp

SDP16	.025	.025	0	NO
SDP17	0.025	.025	0	NO
SDP19	.025	.025	0	NO
SDP2	0.025	0.025	0	NO
SDP20	.025	.025	0	NO
SDP21	0.025	.025	0	NO
SDP22	.025	.025	0	NO
SDP24	0.025	0.025	0	NO
SDP25	.025	.025	0	NO
SDP26	0.025	0.025	0	NO
SDP27	0.025	0.025	0	NO
SDP28	.025	.025	0	NO
SDP3	.025	0.025	0	NO
SDP4	0.025	0.025	0	NO
SDP5	0.025	0.025	0	NO
SDP6	0.025	0.025	0	NO
SDP7	.025	.025	0	NO
SDP8	0.025	.025	0	NO
SDP9	.025	.025	0	NO

[INFLOWS]

;;			Param	Units	Scale	Baseline	Baseline
;;Node	Parameter	Time Series	Type	Factor	Factor	Value	Pattern
;;	-----	-----	-----	-----	-----	-----	-----
DI2024	FLOW	UH-B2	FLOW	1.0	1.0		
DI2046	FLOW	UH-B1	FLOW	1.0	1.0		
K14941	FLOW	UH-B3	FLOW	1.0	1.0		
K14952	FLOW	UH-B4	FLOW	1.0	1.0		
K14953	FLOW	UH-B5	FLOW	1.0	1.0		
L14042	FLOW	UH-B6	FLOW	1.0	1.0		
L14052	FLOW	UH-B7	FLOW	1.0	1.0		
L14053	FLOW	UH-B8	FLOW	1.0	1.0		
L14055	FLOW	UH-B9	FLOW	1.0	1.0		
L14142	FLOW	UH-B10	FLOW	1.0	1.0		
L14143	FLOW	UH-B12	FLOW	1.0	1.0		
L14151	FLOW	UH-B11	FLOW	1.0	1.0		
L14152	FLOW	UH-B13	FLOW	1.0	1.0		
SBroadwayPond	FLOW	UH-B1			1.0		

[CURVES]

;;Name	Type	X-Value	Y-Value
;;	-----	-----	-----

Existing System With Inflow Hydrograph.inp			
L14PS1	Storage	0	0
L14PS1		25	496
SB.DepthArea	Storage	0	0
SB.DepthArea		3.94	21780
SB.DepthArea		4.42	43560
SB.DepthArea		5.19	65340
SB.DepthArea		8.74	87120
SB.DepthArea		14.36	108900
SB.DepthArea		16.54	121968
PumpStation	Pump3	26.5	80
PumpStation		28	75
PumpStation		29.5	70
PumpStation		31.5	65
PumpStation		32	60
PumpStation		33	55
PumpStation		33.5	50
PumpStation		35	45
PumpStation		37	40
PumpStation		47	0

[TIMESERIES]

;;Name	Date	Time	Value

;;			
;;5/6/2016	0:02	38.99	
UH-B1	5/6/2016	0:04	57.38
UH-B1	5/6/2016	0:05	72.32
UH-B1	5/6/2016	0:06	91.17
UH-B1	5/6/2016	0:07	113.22
UH-B1	5/6/2016	0:08	141.27
UH-B1	5/6/2016	0:09	183.18
UH-B1	5/6/2016	0:10	241.75
UH-B1	5/6/2016	0:11	309.74
UH-B1	5/6/2016	0:12	354.16
UH-B1	5/6/2016	0:13	409.71
UH-B1	5/6/2016	0:14	444.98
UH-B1	5/6/2016	0:15	477.07
UH-B1	5/6/2016	0:16	502.79
UH-B1	5/6/2016	0:17	517.66
UH-B1	5/6/2016	0:18	527.53
UH-B1	5/6/2016	0:19	523.01

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	0:20	513.8
UH-B1	5/6/2016	0:21	503.6
UH-B1	5/6/2016	0:22	491.45
UH-B1	5/6/2016	0:23	483.62
UH-B1	5/6/2016	0:24	475.38
UH-B1	5/6/2016	0:25	470.44
UH-B1	5/6/2016	0:26	466.98
UH-B1	5/6/2016	0:27	464.4
UH-B1	5/6/2016	0:28	462.93
UH-B1	5/6/2016	0:29	461.78
UH-B1	5/6/2016	0:30	460.75
UH-B1	5/6/2016	0:31	460.69
UH-B1	5/6/2016	0:32	458.8
UH-B1	5/6/2016	0:33	454.5
UH-B1	5/6/2016	0:34	447.13
UH-B1	5/6/2016	0:35	437.94
UH-B1	5/6/2016	0:36	429.75
UH-B1	5/6/2016	0:37	422.16
UH-B1	5/6/2016	0:38	415.24
UH-B1	5/6/2016	0:39	408.53
UH-B1	5/6/2016	0:40	401.43
UH-B1	5/6/2016	0:41	395.71
UH-B1	5/6/2016	0:42	390.7
UH-B1	5/6/2016	0:43	386
UH-B1	5/6/2016	0:44	382
UH-B1	5/6/2016	0:45	377.89
UH-B1	5/6/2016	0:46	373.79
UH-B1	5/6/2016	0:47	368.66
UH-B1	5/6/2016	0:48	361.99
UH-B1	5/6/2016	0:49	353.47
UH-B1	5/6/2016	0:50	344.71
UH-B1	5/6/2016	0:51	335.89
UH-B1	5/6/2016	0:52	327.2
UH-B1	5/6/2016	0:53	318.7
UH-B1	5/6/2016	0:54	310.5
UH-B1	5/6/2016	0:55	303.05
UH-B1	5/6/2016	0:56	295.96
UH-B1	5/6/2016	0:57	289.14
UH-B1	5/6/2016	0:58	282.65
UH-B1	5/6/2016	0:59	276.38
UH-B1	5/6/2016	1:00	271.93
UH-B1	5/6/2016	1:01	265.74

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	1:02	258.49
UH-B1	5/6/2016	1:03	222.16
UH-B1	5/6/2016	1:04	216.95
UH-B1	5/6/2016	1:05	212.58
UH-B1	5/6/2016	1:06	207.4
UH-B1	5/6/2016	1:07	207.01
UH-B1	5/6/2016	1:08	207.99
UH-B1	5/6/2016	1:09	190.69
UH-B1	5/6/2016	1:10	183.29
UH-B1	5/6/2016	1:11	188.34
UH-B1	5/6/2016	1:12	171.41
UH-B1	5/6/2016	1:13	170.37
UH-B1	5/6/2016	1:14	174.06
UH-B1	5/6/2016	1:15	170.82
UH-B1	5/6/2016	1:16	161.48
UH-B1	5/6/2016	1:17	158.8
UH-B1	5/6/2016	1:18	152.75
UH-B1	5/6/2016	1:19	146.2
UH-B1	5/6/2016	1:20	142.82
UH-B1	5/6/2016	1:21	137.48
UH-B1	5/6/2016	1:22	130.47
UH-B1	5/6/2016	1:23	122.64
UH-B1	5/6/2016	1:24	114.13
UH-B1	5/6/2016	1:25	102.43
UH-B1	5/6/2016	1:26	95.35
UH-B1	5/6/2016	1:27	89.27
UH-B1	5/6/2016	1:28	83.67
UH-B1	5/6/2016	1:29	78.4
UH-B1	5/6/2016	1:30	74.18
UH-B1	5/6/2016	1:31	71.26
UH-B1	5/6/2016	1:32	68.9
UH-B1	5/6/2016	1:33	66.7
UH-B1	5/6/2016	1:34	64.78
UH-B1	5/6/2016	1:35	61.98
UH-B1	5/6/2016	1:36	60.49
UH-B1	5/6/2016	1:37	59.49
UH-B1	5/6/2016	1:38	58.59
UH-B1	5/6/2016	1:39	57.53
UH-B1	5/6/2016	1:40	56.47
UH-B1	5/6/2016	1:41	55.47
UH-B1	5/6/2016	1:42	54.53
UH-B1	5/6/2016	1:43	53.63

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	1:44	52.7
UH-B1	5/6/2016	1:45	51.8
UH-B1	5/6/2016	1:46	50.96
UH-B1	5/6/2016	1:47	50.17
UH-B1	5/6/2016	1:48	49.37
UH-B1	5/6/2016	1:49	48.57
UH-B1	5/6/2016	1:50	47.77
UH-B1	5/6/2016	1:51	46.51
UH-B1	5/6/2016	1:52	45.61
UH-B1	5/6/2016	1:53	46.17
UH-B1	5/6/2016	1:54	44.27
UH-B1	5/6/2016	1:55	44.39
UH-B1	5/6/2016	1:56	42.13
UH-B1	5/6/2016	1:57	42.4
UH-B1	5/6/2016	1:58	42.27
UH-B1	5/6/2016	1:59	41.29
UH-B1	5/6/2016	2:00	40.41
UH-B1	5/6/2016	2:01	39.84
UH-B1	5/6/2016	2:02	37.56
UH-B1	5/6/2016	2:03	36.9
UH-B1	5/6/2016	2:04	36.31
UH-B1	5/6/2016	2:05	35.7
UH-B1	5/6/2016	2:06	35.14
UH-B1	5/6/2016	2:07	34.57
UH-B1	5/6/2016	2:08	34.03
UH-B1	5/6/2016	2:09	33.48
UH-B1	5/6/2016	2:10	32.97
UH-B1	5/6/2016	2:11	32.46
UH-B1	5/6/2016	2:12	31.98
UH-B1	5/6/2016	2:13	31.51
UH-B1	5/6/2016	2:14	31.07
UH-B1	5/6/2016	2:15	30.64
UH-B1	5/6/2016	2:16	30.23
UH-B1	5/6/2016	2:17	29.83
UH-B1	5/6/2016	2:18	29.44
UH-B1	5/6/2016	2:19	29.06
UH-B1	5/6/2016	2:20	28.7
UH-B1	5/6/2016	2:21	28.35
UH-B1	5/6/2016	2:22	28.02
UH-B1	5/6/2016	2:23	27.68
UH-B1	5/6/2016	2:24	27.37
UH-B1	5/6/2016	2:25	27.07

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	2:26	26.78
UH-B1	5/6/2016	2:27	26.5
UH-B1	5/6/2016	2:28	26.22
UH-B1	5/6/2016	2:29	25.97
UH-B1	5/6/2016	2:30	25.7
UH-B1	5/6/2016	2:31	25.46
UH-B1	5/6/2016	2:32	25.22
UH-B1	5/6/2016	2:33	24.98
UH-B1	5/6/2016	2:34	24.79
UH-B1	5/6/2016	2:35	24.53
UH-B1	5/6/2016	2:36	24.4
UH-B1	5/6/2016	2:37	24.14
UH-B1	5/6/2016	2:38	24.02
UH-B1	5/6/2016	2:39	23.7
UH-B1	5/6/2016	2:40	23.62
UH-B1	5/6/2016	2:41	23.43
UH-B1	5/6/2016	2:42	23.36
UH-B1	5/6/2016	2:43	23.1
UH-B1	5/6/2016	2:44	22.99
UH-B1	5/6/2016	2:45	22.82
UH-B1	5/6/2016	2:46	22.74
UH-B1	5/6/2016	2:47	22.57
UH-B1	5/6/2016	2:48	22.44
UH-B1	5/6/2016	2:49	22.32
UH-B1	5/6/2016	2:50	22.2
UH-B1	5/6/2016	2:51	22.14
UH-B1	5/6/2016	2:52	22.04
UH-B1	5/6/2016	2:53	21.91
UH-B1	5/6/2016	2:54	21.82
UH-B1	5/6/2016	2:55	21.72
UH-B1	5/6/2016	2:56	21.66
UH-B1	5/6/2016	2:57	21.53
UH-B1	5/6/2016	2:58	21.48
UH-B1	5/6/2016	2:59	21.35
UH-B1	5/6/2016	3:00	21.29
UH-B1	5/6/2016	3:01	21.21
UH-B1	5/6/2016	3:02	21.16
UH-B1	5/6/2016	3:03	21.06
UH-B1	5/6/2016	3:04	21.29
UH-B1	5/6/2016	3:05	21.54
UH-B1	5/6/2016	3:06	21.88
UH-B1	5/6/2016	3:07	21.88

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	3:08	21.7
UH-B1	5/6/2016	3:09	21.74
UH-B1	5/6/2016	3:10	21.64
UH-B1	5/6/2016	3:11	21.79
UH-B1	5/6/2016	3:12	21.51
UH-B1	5/6/2016	3:13	21.33
UH-B1	5/6/2016	3:14	21.13
UH-B1	5/6/2016	3:15	21.1
UH-B1	5/6/2016	3:16	21.19
UH-B1	5/6/2016	3:17	21.21
UH-B1	5/6/2016	3:18	21.14
UH-B1	5/6/2016	3:19	21.08
UH-B1	5/6/2016	3:20	21.06
UH-B1	5/6/2016	3:21	21.03
UH-B1	5/6/2016	3:22	21.06
UH-B1	5/6/2016	3:23	20.94
UH-B1	5/6/2016	3:24	20.82
UH-B1	5/6/2016	3:25	20.72
UH-B1	5/6/2016	3:26	20.63
UH-B1	5/6/2016	3:27	20.62
UH-B1	5/6/2016	3:28	20.62
UH-B1	5/6/2016	3:29	20.54
UH-B1	5/6/2016	3:30	20.47
UH-B1	5/6/2016	3:31	20.37
UH-B1	5/6/2016	3:32	20.32
UH-B1	5/6/2016	3:33	20.27
UH-B1	5/6/2016	3:34	20.16
UH-B1	5/6/2016	3:35	20.1
UH-B1	5/6/2016	3:36	20
UH-B1	5/6/2016	3:37	19.95
UH-B1	5/6/2016	3:38	19.89
UH-B1	5/6/2016	3:39	19.83
UH-B1	5/6/2016	3:40	19.79
UH-B1	5/6/2016	3:41	19.72
UH-B1	5/6/2016	3:42	19.66
UH-B1	5/6/2016	3:43	19.6
UH-B1	5/6/2016	3:44	19.55
UH-B1	5/6/2016	3:45	19.51
UH-B1	5/6/2016	3:46	19.44
UH-B1	5/6/2016	3:47	19.37
UH-B1	5/6/2016	3:48	19.31
UH-B1	5/6/2016	3:49	19.25

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	3:50	19.23
UH-B1	5/6/2016	3:51	19.16
UH-B1	5/6/2016	3:52	19.13
UH-B1	5/6/2016	3:53	19.06
UH-B1	5/6/2016	3:54	19.01
UH-B1	5/6/2016	3:55	18.93
UH-B1	5/6/2016	3:56	18.82
UH-B1	5/6/2016	3:57	18.79
UH-B1	5/6/2016	3:58	18.75
UH-B1	5/6/2016	3:59	18.76
UH-B1	5/6/2016	4:00	18.73
UH-B1	5/6/2016	4:01	18.71
UH-B1	5/6/2016	4:02	18.68
UH-B1	5/6/2016	4:03	18.65
UH-B1	5/6/2016	4:04	18.6
UH-B1	5/6/2016	4:05	18.55
UH-B1	5/6/2016	4:06	18.5
UH-B1	5/6/2016	4:07	18.47
UH-B1	5/6/2016	4:08	18.45
UH-B1	5/6/2016	4:09	18.41
UH-B1	5/6/2016	4:10	18.36
UH-B1	5/6/2016	4:11	18.3
UH-B1	5/6/2016	4:12	18.25
UH-B1	5/6/2016	4:13	18.23
UH-B1	5/6/2016	4:14	18.2
UH-B1	5/6/2016	4:15	18.19
UH-B1	5/6/2016	4:16	18.16
UH-B1	5/6/2016	4:17	18.14
UH-B1	5/6/2016	4:18	18.1
UH-B1	5/6/2016	4:19	18.07
UH-B1	5/6/2016	4:20	18.04
UH-B1	5/6/2016	4:21	18.01
UH-B1	5/6/2016	4:22	17.99
UH-B1	5/6/2016	4:23	17.96
UH-B1	5/6/2016	4:24	17.94
UH-B1	5/6/2016	4:25	17.91
UH-B1	5/6/2016	4:26	17.89
UH-B1	5/6/2016	4:27	17.86
UH-B1	5/6/2016	4:28	17.85
UH-B1	5/6/2016	4:29	17.82
UH-B1	5/6/2016	4:30	17.8
UH-B1	5/6/2016	4:31	17.77

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	4:32	17.75
UH-B1	5/6/2016	4:33	17.73
UH-B1	5/6/2016	4:34	17.72
UH-B1	5/6/2016	4:35	17.7
UH-B1	5/6/2016	4:36	17.68
UH-B1	5/6/2016	4:37	17.66
UH-B1	5/6/2016	4:38	17.64
UH-B1	5/6/2016	4:39	17.62
UH-B1	5/6/2016	4:40	17.6
UH-B1	5/6/2016	4:41	17.59
UH-B1	5/6/2016	4:42	17.57
UH-B1	5/6/2016	4:43	17.56
UH-B1	5/6/2016	4:44	17.54
UH-B1	5/6/2016	4:45	17.53
UH-B1	5/6/2016	4:46	17.51
UH-B1	5/6/2016	4:47	17.49
UH-B1	5/6/2016	4:48	17.48
UH-B1	5/6/2016	4:49	17.47
UH-B1	5/6/2016	4:50	17.46
UH-B1	5/6/2016	4:51	17.44
UH-B1	5/6/2016	4:52	17.42
UH-B1	5/6/2016	4:53	17.41
UH-B1	5/6/2016	4:54	17.39
UH-B1	5/6/2016	4:55	17.38
UH-B1	5/6/2016	4:56	17.36
UH-B1	5/6/2016	4:57	17.35
UH-B1	5/6/2016	4:58	17.34
UH-B1	5/6/2016	4:59	17.31
UH-B1	5/6/2016	5:00	17.27
UH-B1	5/6/2016	5:01	17.22
UH-B1	5/6/2016	5:02	17.19
UH-B1	5/6/2016	5:03	17.18
UH-B1	5/6/2016	5:04	17.18
UH-B1	5/6/2016	5:05	17.19
UH-B1	5/6/2016	5:06	17.19
UH-B1	5/6/2016	5:07	17.17
UH-B1	5/6/2016	5:08	17.15
UH-B1	5/6/2016	5:09	17.12
UH-B1	5/6/2016	5:10	17.1
UH-B1	5/6/2016	5:11	17.07
UH-B1	5/6/2016	5:12	17.07
UH-B1	5/6/2016	5:13	17.06

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	5:14	17.05
UH-B1	5/6/2016	5:15	17.04
UH-B1	5/6/2016	5:16	17.03
UH-B1	5/6/2016	5:17	17.01
UH-B1	5/6/2016	5:18	16.99
UH-B1	5/6/2016	5:19	16.98
UH-B1	5/6/2016	5:20	16.97
UH-B1	5/6/2016	5:21	16.97
UH-B1	5/6/2016	5:22	16.96
UH-B1	5/6/2016	5:23	16.95
UH-B1	5/6/2016	5:24	16.94
UH-B1	5/6/2016	5:25	16.93
UH-B1	5/6/2016	5:26	16.91
UH-B1	5/6/2016	5:27	16.9
UH-B1	5/6/2016	5:28	16.89
UH-B1	5/6/2016	5:29	16.89
UH-B1	5/6/2016	5:30	16.88
UH-B1	5/6/2016	5:31	16.87
UH-B1	5/6/2016	5:32	16.87
UH-B1	5/6/2016	5:33	16.85
UH-B1	5/6/2016	5:34	16.84
UH-B1	5/6/2016	5:35	16.83
UH-B1	5/6/2016	5:36	16.82
UH-B1	5/6/2016	5:37	16.82
UH-B1	5/6/2016	5:38	16.81
UH-B1	5/6/2016	5:39	16.8
UH-B1	5/6/2016	5:40	16.79
UH-B1	5/6/2016	5:41	16.78
UH-B1	5/6/2016	5:42	16.78
UH-B1	5/6/2016	5:43	16.77
UH-B1	5/6/2016	5:44	16.76
UH-B1	5/6/2016	5:45	16.75
UH-B1	5/6/2016	5:46	16.74
UH-B1	5/6/2016	5:47	16.74
UH-B1	5/6/2016	5:48	16.73
UH-B1	5/6/2016	5:49	16.72
UH-B1	5/6/2016	5:50	16.72
UH-B1	5/6/2016	5:51	16.71
UH-B1	5/6/2016	5:52	16.7
UH-B1	5/6/2016	5:53	16.69
UH-B1	5/6/2016	5:54	16.68
UH-B1	5/6/2016	5:55	16.68

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	5:56	16.67
UH-B1	5/6/2016	5:57	16.66
UH-B1	5/6/2016	5:58	16.65
UH-B1	5/6/2016	5:59	16.65
UH-B1	5/6/2016	6:00	16.64
UH-B1	5/6/2016	6:01	16.63
UH-B1	5/6/2016	6:02	16.62
UH-B1	5/6/2016	6:03	16.6
UH-B1	5/6/2016	6:04	16.52
UH-B1	5/6/2016	6:05	16.46
UH-B1	5/6/2016	6:06	16.46
UH-B1	5/6/2016	6:07	16.5
UH-B1	5/6/2016	6:08	16.54
UH-B1	5/6/2016	6:09	16.54
UH-B1	5/6/2016	6:10	16.52
UH-B1	5/6/2016	6:11	16.48
UH-B1	5/6/2016	6:12	16.47
UH-B1	5/6/2016	6:13	16.46
UH-B1	5/6/2016	6:14	16.47
UH-B1	5/6/2016	6:15	16.48
UH-B1	5/6/2016	6:16	16.47
UH-B1	5/6/2016	6:17	16.45
UH-B1	5/6/2016	6:18	16.43
UH-B1	5/6/2016	6:19	16.4
UH-B1	5/6/2016	6:20	16.38
UH-B1	5/6/2016	6:21	16.35
UH-B1	5/6/2016	6:22	16.31
UH-B1	5/6/2016	6:23	16.26
UH-B1	5/6/2016	6:24	16.2
UH-B1	5/6/2016	6:25	16.14
UH-B1	5/6/2016	6:26	16.09
UH-B1	5/6/2016	6:27	16.04
UH-B1	5/6/2016	6:28	15.98
UH-B1	5/6/2016	6:29	15.92
UH-B1	5/6/2016	6:30	15.84
UH-B1	5/6/2016	6:31	15.75
UH-B1	5/6/2016	6:32	15.65
UH-B1	5/6/2016	6:33	15.55
UH-B1	5/6/2016	6:34	15.46
UH-B1	5/6/2016	6:35	15.37
UH-B1	5/6/2016	6:36	15.28
UH-B1	5/6/2016	6:37	15.18

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	6:38	15.09
UH-B1	5/6/2016	6:39	15
UH-B1	5/6/2016	6:40	14.9
UH-B1	5/6/2016	6:41	14.81
UH-B1	5/6/2016	6:42	14.72
UH-B1	5/6/2016	6:43	14.63
UH-B1	5/6/2016	6:44	14.54
UH-B1	5/6/2016	6:45	14.46
UH-B1	5/6/2016	6:46	14.38
UH-B1	5/6/2016	6:47	14.3
UH-B1	5/6/2016	6:48	14.22
UH-B1	5/6/2016	6:49	14.13
UH-B1	5/6/2016	6:50	14.05
UH-B1	5/6/2016	6:51	13.97
UH-B1	5/6/2016	6:52	13.9
UH-B1	5/6/2016	6:53	13.82
UH-B1	5/6/2016	6:54	13.74
UH-B1	5/6/2016	6:55	13.66
UH-B1	5/6/2016	6:56	13.51
UH-B1	5/6/2016	6:57	13.39
UH-B1	5/6/2016	6:58	13.35
UH-B1	5/6/2016	6:59	13.32
UH-B1	5/6/2016	7:00	13.32
UH-B1	5/6/2016	7:01	12.96
UH-B1	5/6/2016	7:02	13.08
UH-B1	5/6/2016	7:03	12.88
UH-B1	5/6/2016	7:04	12.76
UH-B1	5/6/2016	7:05	12.96
UH-B1	5/6/2016	7:06	12.59
UH-B1	5/6/2016	7:07	12.78
UH-B1	5/6/2016	7:08	12.55
UH-B1	5/6/2016	7:09	12.52
UH-B1	5/6/2016	7:10	12.71
UH-B1	5/6/2016	7:11	12.3
UH-B1	5/6/2016	7:12	12.5
UH-B1	5/6/2016	7:13	12.34
UH-B1	5/6/2016	7:14	12.32
UH-B1	5/6/2016	7:15	12.34
UH-B1	5/6/2016	7:16	12.11
UH-B1	5/6/2016	7:17	12.31
UH-B1	5/6/2016	7:18	12.02
UH-B1	5/6/2016	7:19	12.15

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	7:20	12.03
UH-B1	5/6/2016	7:21	12.03
UH-B1	5/6/2016	7:22	11.92
UH-B1	5/6/2016	7:23	11.92
UH-B1	5/6/2016	7:24	11.97
UH-B1	5/6/2016	7:25	11.75
UH-B1	5/6/2016	7:26	11.88
UH-B1	5/6/2016	7:27	11.7
UH-B1	5/6/2016	7:28	11.84
UH-B1	5/6/2016	7:29	11.6
UH-B1	5/6/2016	7:30	11.72
UH-B1	5/6/2016	7:31	11.58
UH-B1	5/6/2016	7:32	11.65
UH-B1	5/6/2016	7:33	11.51
UH-B1	5/6/2016	7:34	11.58
UH-B1	5/6/2016	7:35	11.5
UH-B1	5/6/2016	7:36	11.45
UH-B1	5/6/2016	7:37	11.46
UH-B1	5/6/2016	7:38	11.32
UH-B1	5/6/2016	7:39	11.49
UH-B1	5/6/2016	7:40	11.25
UH-B1	5/6/2016	7:41	11.42
UH-B1	5/6/2016	7:42	11.21
UH-B1	5/6/2016	7:43	11.35
UH-B1	5/6/2016	7:44	11.18
UH-B1	5/6/2016	7:45	11.26
UH-B1	5/6/2016	7:46	11.17
UH-B1	5/6/2016	7:47	11.19
UH-B1	5/6/2016	7:48	11.15
UH-B1	5/6/2016	7:49	11.07
UH-B1	5/6/2016	7:50	11.2
UH-B1	5/6/2016	7:51	11.19
UH-B1	5/6/2016	7:52	11.18
UH-B1	5/6/2016	7:53	11.17
UH-B1	5/6/2016	7:54	11.16
UH-B1	5/6/2016	7:55	11.15
UH-B1	5/6/2016	7:56	11.14
UH-B1	5/6/2016	7:57	11.13
UH-B1	5/6/2016	7:58	11.12
UH-B1	5/6/2016	7:59	11.11
UH-B1	5/6/2016	8:00	11.10
UH-B1	5/6/2016	8:01	11.09

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	8:02	11.08
UH-B1	5/6/2016	8:03	11.07
UH-B1	5/6/2016	8:04	11.06
UH-B1	5/6/2016	8:05	11.05
UH-B1	5/6/2016	8:06	11.04
UH-B1	5/6/2016	8:07	11.03
UH-B1	5/6/2016	8:08	11.02
UH-B1	5/6/2016	8:09	11.00
UH-B1	5/6/2016	8:10	10.99
UH-B1	5/6/2016	8:11	10.98
UH-B1	5/6/2016	8:12	10.97
UH-B1	5/6/2016	8:13	10.96
UH-B1	5/6/2016	8:14	10.95
UH-B1	5/6/2016	8:15	10.94
UH-B1	5/6/2016	8:16	10.93
UH-B1	5/6/2016	8:17	10.92
UH-B1	5/6/2016	8:18	10.91
UH-B1	5/6/2016	8:19	10.90
UH-B1	5/6/2016	8:20	10.89
UH-B1	5/6/2016	8:21	10.88
UH-B1	5/6/2016	8:22	10.87
UH-B1	5/6/2016	8:23	10.86
UH-B1	5/6/2016	8:24	10.85
UH-B1	5/6/2016	8:25	10.84
UH-B1	5/6/2016	8:26	10.83
UH-B1	5/6/2016	8:27	10.82
UH-B1	5/6/2016	8:28	10.81
UH-B1	5/6/2016	8:29	10.80
UH-B1	5/6/2016	8:30	10.79
UH-B1	5/6/2016	8:31	10.78
UH-B1	5/6/2016	8:32	10.77
UH-B1	5/6/2016	8:33	10.76
UH-B1	5/6/2016	8:34	10.75
UH-B1	5/6/2016	8:35	10.74
UH-B1	5/6/2016	8:36	10.73
UH-B1	5/6/2016	8:37	10.72
UH-B1	5/6/2016	8:38	10.71
UH-B1	5/6/2016	8:39	10.70
UH-B1	5/6/2016	8:40	10.69
UH-B1	5/6/2016	8:41	10.68
UH-B1	5/6/2016	8:42	10.67
UH-B1	5/6/2016	8:43	10.66

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	8:44	10.65
UH-B1	5/6/2016	8:45	10.64
UH-B1	5/6/2016	8:46	10.63
UH-B1	5/6/2016	8:47	10.61
UH-B1	5/6/2016	8:48	10.60
UH-B1	5/6/2016	8:49	10.59
UH-B1	5/6/2016	8:50	10.58
UH-B1	5/6/2016	8:51	10.57
UH-B1	5/6/2016	8:52	10.56
UH-B1	5/6/2016	8:53	10.55
UH-B1	5/6/2016	8:54	10.54
UH-B1	5/6/2016	8:55	10.53
UH-B1	5/6/2016	8:56	10.52
UH-B1	5/6/2016	8:57	10.51
UH-B1	5/6/2016	8:58	10.50
UH-B1	5/6/2016	8:59	10.49
UH-B1	5/6/2016	9:00	10.48
UH-B1	5/6/2016	9:01	10.47
UH-B1	5/6/2016	9:02	10.46
UH-B1	5/6/2016	9:03	10.45
UH-B1	5/6/2016	9:04	10.44
UH-B1	5/6/2016	9:05	10.43
UH-B1	5/6/2016	9:06	10.42
UH-B1	5/6/2016	9:07	10.41
UH-B1	5/6/2016	9:08	10.40
UH-B1	5/6/2016	9:09	10.39
UH-B1	5/6/2016	9:10	10.38
UH-B1	5/6/2016	9:11	10.37
UH-B1	5/6/2016	9:12	10.36
UH-B1	5/6/2016	9:13	10.35
UH-B1	5/6/2016	9:14	10.34
UH-B1	5/6/2016	9:15	10.33
UH-B1	5/6/2016	9:16	10.32
UH-B1	5/6/2016	9:17	10.31
UH-B1	5/6/2016	9:18	10.30
UH-B1	5/6/2016	9:19	10.29
UH-B1	5/6/2016	9:20	10.28
UH-B1	5/6/2016	9:21	10.27
UH-B1	5/6/2016	9:22	10.26
UH-B1	5/6/2016	9:23	10.25
UH-B1	5/6/2016	9:24	10.23
UH-B1	5/6/2016	9:25	10.22

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	9:26	10.21
UH-B1	5/6/2016	9:27	10.20
UH-B1	5/6/2016	9:28	10.19
UH-B1	5/6/2016	9:29	10.18
UH-B1	5/6/2016	9:30	10.17
UH-B1	5/6/2016	9:31	10.16
UH-B1	5/6/2016	9:32	10.15
UH-B1	5/6/2016	9:33	10.14
UH-B1	5/6/2016	9:34	10.13
UH-B1	5/6/2016	9:35	10.12
UH-B1	5/6/2016	9:36	10.11
UH-B1	5/6/2016	9:37	10.10
UH-B1	5/6/2016	9:38	10.09
UH-B1	5/6/2016	9:39	10.08
UH-B1	5/6/2016	9:40	10.07
UH-B1	5/6/2016	9:41	10.06
UH-B1	5/6/2016	9:42	10.05
UH-B1	5/6/2016	9:43	10.04
UH-B1	5/6/2016	9:44	10.03
UH-B1	5/6/2016	9:45	10.02
UH-B1	5/6/2016	9:46	10.01
UH-B1	5/6/2016	9:47	10.00
UH-B1	5/6/2016	9:48	9.99
UH-B1	5/6/2016	9:49	9.98
UH-B1	5/6/2016	9:50	9.97
UH-B1	5/6/2016	9:51	9.96
UH-B1	5/6/2016	9:52	9.95
UH-B1	5/6/2016	9:53	9.94
UH-B1	5/6/2016	9:54	9.93
UH-B1	5/6/2016	9:55	9.92
UH-B1	5/6/2016	9:56	9.91
UH-B1	5/6/2016	9:57	9.90
UH-B1	5/6/2016	9:58	9.89
UH-B1	5/6/2016	9:59	9.88
UH-B1	5/6/2016	10:00	9.87
UH-B1	5/6/2016	10:01	9.85
UH-B1	5/6/2016	10:02	9.84
UH-B1	5/6/2016	10:03	9.83
UH-B1	5/6/2016	10:04	9.82
UH-B1	5/6/2016	10:05	9.81
UH-B1	5/6/2016	10:06	9.80
UH-B1	5/6/2016	10:07	9.79

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	10:08	9.78
UH-B1	5/6/2016	10:09	9.77
UH-B1	5/6/2016	10:10	9.76
UH-B1	5/6/2016	10:11	9.75
UH-B1	5/6/2016	10:12	9.74
UH-B1	5/6/2016	10:13	9.73
UH-B1	5/6/2016	10:14	9.72
UH-B1	5/6/2016	10:15	9.71
UH-B1	5/6/2016	10:16	9.70
UH-B1	5/6/2016	10:17	9.69
UH-B1	5/6/2016	10:18	9.68
UH-B1	5/6/2016	10:19	9.67
UH-B1	5/6/2016	10:20	9.66
UH-B1	5/6/2016	10:21	9.65
UH-B1	5/6/2016	10:22	9.64
UH-B1	5/6/2016	10:23	9.63
UH-B1	5/6/2016	10:24	9.62
UH-B1	5/6/2016	10:25	9.61
UH-B1	5/6/2016	10:26	9.60
UH-B1	5/6/2016	10:27	9.59
UH-B1	5/6/2016	10:28	9.58
UH-B1	5/6/2016	10:29	9.57
UH-B1	5/6/2016	10:30	9.56
UH-B1	5/6/2016	10:31	9.55
UH-B1	5/6/2016	10:32	9.54
UH-B1	5/6/2016	10:33	9.53
UH-B1	5/6/2016	10:34	9.52
UH-B1	5/6/2016	10:35	9.51
UH-B1	5/6/2016	10:36	9.50
UH-B1	5/6/2016	10:37	9.49
UH-B1	5/6/2016	10:38	9.48
UH-B1	5/6/2016	10:39	9.46
UH-B1	5/6/2016	10:40	9.45
UH-B1	5/6/2016	10:41	9.44
UH-B1	5/6/2016	10:42	9.43
UH-B1	5/6/2016	10:43	9.42
UH-B1	5/6/2016	10:44	9.41
UH-B1	5/6/2016	10:45	9.40
UH-B1	5/6/2016	10:46	9.39
UH-B1	5/6/2016	10:47	9.38
UH-B1	5/6/2016	10:48	9.37
UH-B1	5/6/2016	10:49	9.36

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	10:50	9.35
UH-B1	5/6/2016	10:51	9.34
UH-B1	5/6/2016	10:52	9.33
UH-B1	5/6/2016	10:53	9.32
UH-B1	5/6/2016	10:54	9.31
UH-B1	5/6/2016	10:55	9.30
UH-B1	5/6/2016	10:56	9.29
UH-B1	5/6/2016	10:57	9.28
UH-B1	5/6/2016	10:58	9.27
UH-B1	5/6/2016	10:59	9.26
UH-B1	5/6/2016	11:00	9.25
UH-B1	5/6/2016	11:01	9.24
UH-B1	5/6/2016	11:02	9.23
UH-B1	5/6/2016	11:03	9.22
UH-B1	5/6/2016	11:04	9.21
UH-B1	5/6/2016	11:05	9.20
UH-B1	5/6/2016	11:06	9.19
UH-B1	5/6/2016	11:07	9.18
UH-B1	5/6/2016	11:08	9.17
UH-B1	5/6/2016	11:09	9.16
UH-B1	5/6/2016	11:10	9.15
UH-B1	5/6/2016	11:11	9.14
UH-B1	5/6/2016	11:12	9.13
UH-B1	5/6/2016	11:13	9.12
UH-B1	5/6/2016	11:14	9.11
UH-B1	5/6/2016	11:15	9.10
UH-B1	5/6/2016	11:16	9.08
UH-B1	5/6/2016	11:17	9.07
UH-B1	5/6/2016	11:18	9.06
UH-B1	5/6/2016	11:19	9.05
UH-B1	5/6/2016	11:20	9.04
UH-B1	5/6/2016	11:21	9.03
UH-B1	5/6/2016	11:22	9.02
UH-B1	5/6/2016	11:23	9.01
UH-B1	5/6/2016	11:24	9.00
UH-B1	5/6/2016	11:25	8.99
UH-B1	5/6/2016	11:26	8.98
UH-B1	5/6/2016	11:27	8.97
UH-B1	5/6/2016	11:28	8.96
UH-B1	5/6/2016	11:29	8.95
UH-B1	5/6/2016	11:30	8.94
UH-B1	5/6/2016	11:31	8.93

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	11:32	8.92
UH-B1	5/6/2016	11:33	8.91
UH-B1	5/6/2016	11:34	8.9
UH-B1	5/6/2016	11:35	8.65
UH-B1	5/6/2016	11:36	8.73
UH-B1	5/6/2016	11:37	8.92
UH-B1	5/6/2016	11:38	8.97
UH-B1	5/6/2016	11:39	8.87
UH-B1	5/6/2016	11:40	8.74
UH-B1	5/6/2016	11:41	8.71
UH-B1	5/6/2016	11:42	8.79
UH-B1	5/6/2016	11:43	8.88
UH-B1	5/6/2016	11:44	8.91
UH-B1	5/6/2016	11:45	8.87
UH-B1	5/6/2016	11:46	8.8
UH-B1	5/6/2016	11:47	8.76
UH-B1	5/6/2016	11:48	8.76
UH-B1	5/6/2016	11:49	8.8
UH-B1	5/6/2016	11:50	8.84
UH-B1	5/6/2016	11:51	8.86
UH-B1	5/6/2016	11:52	8.86
UH-B1	5/6/2016	11:53	8.83
UH-B1	5/6/2016	11:54	8.81
UH-B1	5/6/2016	11:55	8.79
UH-B1	5/6/2016	11:56	8.78
UH-B1	5/6/2016	11:57	8.79
UH-B1	5/6/2016	11:58	8.81
UH-B1	5/6/2016	11:59	8.82
UH-B1	5/6/2016	12:00	8.83
UH-B1	5/6/2016	12:01	8.83
UH-B1	5/6/2016	12:02	8.81
UH-B1	5/6/2016	12:03	8.69
UH-B1	5/6/2016	12:04	8.45
UH-B1	5/6/2016	12:05	8.12
UH-B1	5/6/2016	12:06	7.74
UH-B1	5/6/2016	12:07	7.35
UH-B1	5/6/2016	12:08	7.05
UH-B1	5/6/2016	12:09	6.86
UH-B1	5/6/2016	12:10	6.73
UH-B1	5/6/2016	12:11	6.66
UH-B1	5/6/2016	12:12	6.61
UH-B1	5/6/2016	12:13	6.58

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	12:14	6.56
UH-B1	5/6/2016	12:15	6.55
UH-B1	5/6/2016	12:16	6.54
UH-B1	5/6/2016	12:17	6.54
UH-B1	5/6/2016	12:18	6.54
UH-B1	5/6/2016	12:19	6.54
UH-B1	5/6/2016	12:20	6.55
UH-B1	5/6/2016	12:21	6.55
UH-B1	5/6/2016	12:22	6.56
UH-B1	5/6/2016	12:23	6.56
UH-B1	5/6/2016	12:24	6.57
UH-B1	5/6/2016	12:25	6.57
UH-B1	5/6/2016	12:26	6.58
UH-B1	5/6/2016	12:27	6.59
UH-B1	5/6/2016	12:28	6.59
UH-B1	5/6/2016	12:29	6.6
UH-B1	5/6/2016	12:30	6.6
UH-B1	5/6/2016	12:31	6.61
UH-B1	5/6/2016	12:32	6.62
UH-B1	5/6/2016	12:33	6.62
UH-B1	5/6/2016	12:34	6.63
UH-B1	5/6/2016	12:35	6.63
UH-B1	5/6/2016	12:36	6.64
UH-B1	5/6/2016	12:37	6.64
UH-B1	5/6/2016	12:38	6.65
UH-B1	5/6/2016	12:39	6.65
UH-B1	5/6/2016	12:40	6.65
UH-B1	5/6/2016	12:41	6.66
UH-B1	5/6/2016	12:42	6.66
UH-B1	5/6/2016	12:43	6.67
UH-B1	5/6/2016	12:44	6.67
UH-B1	5/6/2016	12:45	6.67
UH-B1	5/6/2016	12:46	6.68
UH-B1	5/6/2016	12:47	6.68
UH-B1	5/6/2016	12:48	6.68
UH-B1	5/6/2016	12:49	6.69
UH-B1	5/6/2016	12:50	6.69
UH-B1	5/6/2016	12:51	6.69
UH-B1	5/6/2016	12:52	6.69
UH-B1	5/6/2016	12:53	6.7
UH-B1	5/6/2016	12:54	6.7
UH-B1	5/6/2016	12:55	6.7

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	12:56	6.7
UH-B1	5/6/2016	12:57	6.71
UH-B1	5/6/2016	12:58	6.71
UH-B1	5/6/2016	12:59	6.71
UH-B1	5/6/2016	13:00	6.71
UH-B1	5/6/2016	13:01	6.71
UH-B1	5/6/2016	13:02	6.72
UH-B1	5/6/2016	13:03	6.72
UH-B1	5/6/2016	13:04	6.72
UH-B1	5/6/2016	13:05	6.72
UH-B1	5/6/2016	13:06	6.73
UH-B1	5/6/2016	13:07	6.73
UH-B1	5/6/2016	13:08	6.73
UH-B1	5/6/2016	13:09	6.73
UH-B1	5/6/2016	13:10	6.74
UH-B1	5/6/2016	13:11	6.74
UH-B1	5/6/2016	13:12	6.74
UH-B1	5/6/2016	13:13	6.74
UH-B1	5/6/2016	13:14	6.74
UH-B1	5/6/2016	13:15	6.74
UH-B1	5/6/2016	13:16	6.75
UH-B1	5/6/2016	13:17	6.75
UH-B1	5/6/2016	13:18	6.75
UH-B1	5/6/2016	13:19	6.75
UH-B1	5/6/2016	13:20	6.75
UH-B1	5/6/2016	13:21	6.75
UH-B1	5/6/2016	13:22	6.75
UH-B1	5/6/2016	13:23	6.75
UH-B1	5/6/2016	13:24	6.75
UH-B1	5/6/2016	13:25	6.75
UH-B1	5/6/2016	13:26	6.76
UH-B1	5/6/2016	13:27	6.76
UH-B1	5/6/2016	13:28	6.76
UH-B1	5/6/2016	13:29	6.76
UH-B1	5/6/2016	13:30	6.76
UH-B1	5/6/2016	13:31	6.76
UH-B1	5/6/2016	13:32	6.76
UH-B1	5/6/2016	13:33	6.76
UH-B1	5/6/2016	13:34	6.76
UH-B1	5/6/2016	13:35	6.76
UH-B1	5/6/2016	13:36	6.77
UH-B1	5/6/2016	13:37	6.77

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	13:38	6.77
UH-B1	5/6/2016	13:39	6.77
UH-B1	5/6/2016	13:40	6.77
UH-B1	5/6/2016	13:41	6.77
UH-B1	5/6/2016	13:42	6.77
UH-B1	5/6/2016	13:43	6.77
UH-B1	5/6/2016	13:44	6.78
UH-B1	5/6/2016	13:45	6.78
UH-B1	5/6/2016	13:46	6.78
UH-B1	5/6/2016	13:47	6.78
UH-B1	5/6/2016	13:48	6.78
UH-B1	5/6/2016	13:49	6.78
UH-B1	5/6/2016	13:50	6.78
UH-B1	5/6/2016	13:51	6.78
UH-B1	5/6/2016	13:52	6.78
UH-B1	5/6/2016	13:53	6.78
UH-B1	5/6/2016	13:54	6.78
UH-B1	5/6/2016	13:55	6.78
UH-B1	5/6/2016	13:56	6.78
UH-B1	5/6/2016	13:57	6.78
UH-B1	5/6/2016	13:58	6.78
UH-B1	5/6/2016	13:59	6.78
UH-B1	5/6/2016	14:00	6.78
UH-B1	5/6/2016	14:01	6.78
UH-B1	5/6/2016	14:02	6.78
UH-B1	5/6/2016	14:03	6.78
UH-B1	5/6/2016	14:04	6.78
UH-B1	5/6/2016	14:05	6.78
UH-B1	5/6/2016	14:06	6.78
UH-B1	5/6/2016	14:07	6.79
UH-B1	5/6/2016	14:08	6.79
UH-B1	5/6/2016	14:09	6.79
UH-B1	5/6/2016	14:10	6.79
UH-B1	5/6/2016	14:11	6.79
UH-B1	5/6/2016	14:12	6.79
UH-B1	5/6/2016	14:13	6.79
UH-B1	5/6/2016	14:14	6.79
UH-B1	5/6/2016	14:15	6.79
UH-B1	5/6/2016	14:16	6.79
UH-B1	5/6/2016	14:17	6.79
UH-B1	5/6/2016	14:18	6.79
UH-B1	5/6/2016	14:19	6.79

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	14:20	6.79
UH-B1	5/6/2016	14:21	6.79
UH-B1	5/6/2016	14:22	6.79
UH-B1	5/6/2016	14:23	6.79
UH-B1	5/6/2016	14:24	6.79
UH-B1	5/6/2016	14:25	6.79
UH-B1	5/6/2016	14:26	6.79
UH-B1	5/6/2016	14:27	6.79
UH-B1	5/6/2016	14:28	6.79
UH-B1	5/6/2016	14:29	6.79
UH-B1	5/6/2016	14:30	6.79
UH-B1	5/6/2016	14:31	6.79
UH-B1	5/6/2016	14:32	6.79
UH-B1	5/6/2016	14:33	6.79
UH-B1	5/6/2016	14:34	6.79
UH-B1	5/6/2016	14:35	6.79
UH-B1	5/6/2016	14:36	6.8
UH-B1	5/6/2016	14:37	6.8
UH-B1	5/6/2016	14:38	6.8
UH-B1	5/6/2016	14:39	6.8
UH-B1	5/6/2016	14:40	6.8
UH-B1	5/6/2016	14:41	6.8
UH-B1	5/6/2016	14:42	6.8
UH-B1	5/6/2016	14:43	6.8
UH-B1	5/6/2016	14:44	6.8
UH-B1	5/6/2016	14:45	6.8
UH-B1	5/6/2016	14:46	6.8
UH-B1	5/6/2016	14:47	6.8
UH-B1	5/6/2016	14:48	6.8
UH-B1	5/6/2016	14:49	6.8
UH-B1	5/6/2016	14:50	6.8
UH-B1	5/6/2016	14:51	6.8
UH-B1	5/6/2016	14:52	6.8
UH-B1	5/6/2016	14:53	6.8
UH-B1	5/6/2016	14:54	6.8
UH-B1	5/6/2016	14:55	6.8
UH-B1	5/6/2016	14:56	6.8
UH-B1	5/6/2016	14:57	6.8
UH-B1	5/6/2016	14:58	6.8
UH-B1	5/6/2016	14:59	6.8
UH-B1	5/6/2016	15:00	6.8
UH-B1	5/6/2016	15:01	6.8

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	15:02	6.8
UH-B1	5/6/2016	15:03	6.8
UH-B1	5/6/2016	15:04	6.8
UH-B1	5/6/2016	15:05	6.8
UH-B1	5/6/2016	15:06	6.8
UH-B1	5/6/2016	15:07	6.8
UH-B1	5/6/2016	15:08	6.8
UH-B1	5/6/2016	15:09	6.81
UH-B1	5/6/2016	15:10	6.81
UH-B1	5/6/2016	15:11	6.81
UH-B1	5/6/2016	15:12	6.81
UH-B1	5/6/2016	15:13	6.81
UH-B1	5/6/2016	15:14	6.81
UH-B1	5/6/2016	15:15	6.81
UH-B1	5/6/2016	15:16	6.82
UH-B1	5/6/2016	15:17	6.82
UH-B1	5/6/2016	15:18	6.82
UH-B1	5/6/2016	15:19	6.82
UH-B1	5/6/2016	15:20	6.82
UH-B1	5/6/2016	15:21	6.82
UH-B1	5/6/2016	15:22	6.82
UH-B1	5/6/2016	15:23	6.82
UH-B1	5/6/2016	15:24	6.82
UH-B1	5/6/2016	15:25	6.82
UH-B1	5/6/2016	15:26	6.82
UH-B1	5/6/2016	15:27	6.82
UH-B1	5/6/2016	15:28	6.82
UH-B1	5/6/2016	15:29	6.82
UH-B1	5/6/2016	15:30	6.82
UH-B1	5/6/2016	15:31	6.82
UH-B1	5/6/2016	15:32	6.82
UH-B1	5/6/2016	15:33	6.82
UH-B1	5/6/2016	15:34	6.82
UH-B1	5/6/2016	15:35	6.82
UH-B1	5/6/2016	15:36	6.82
UH-B1	5/6/2016	15:37	6.82
UH-B1	5/6/2016	15:38	6.82
UH-B1	5/6/2016	15:39	6.82
UH-B1	5/6/2016	15:40	6.82
UH-B1	5/6/2016	15:41	6.82
UH-B1	5/6/2016	15:42	6.82
UH-B1	5/6/2016	15:43	6.82

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	15:44	6.82
UH-B1	5/6/2016	15:45	6.82
UH-B1	5/6/2016	15:46	6.82
UH-B1	5/6/2016	15:47	6.82
UH-B1	5/6/2016	15:48	6.82
UH-B1	5/6/2016	15:49	6.82
UH-B1	5/6/2016	15:50	6.82
UH-B1	5/6/2016	15:51	6.82
UH-B1	5/6/2016	15:52	6.82
UH-B1	5/6/2016	15:53	6.82
UH-B1	5/6/2016	15:54	6.82
UH-B1	5/6/2016	15:55	6.82
UH-B1	5/6/2016	15:56	6.82
UH-B1	5/6/2016	15:57	6.82
UH-B1	5/6/2016	15:58	6.82
UH-B1	5/6/2016	15:59	6.82
UH-B1	5/6/2016	16:00	6.82
UH-B1	5/6/2016	16:01	6.82
UH-B1	5/6/2016	16:02	6.82
UH-B1	5/6/2016	16:03	6.82
UH-B1	5/6/2016	16:04	6.82
UH-B1	5/6/2016	16:05	6.82
UH-B1	5/6/2016	16:06	6.82
UH-B1	5/6/2016	16:07	6.82
UH-B1	5/6/2016	16:08	6.82
UH-B1	5/6/2016	16:09	6.82
UH-B1	5/6/2016	16:10	6.82
UH-B1	5/6/2016	16:11	6.82
UH-B1	5/6/2016	16:12	6.81
UH-B1	5/6/2016	16:13	6.81
UH-B1	5/6/2016	16:14	6.81
UH-B1	5/6/2016	16:15	6.81
UH-B1	5/6/2016	16:16	6.81
UH-B1	5/6/2016	16:17	6.81
UH-B1	5/6/2016	16:18	6.81
UH-B1	5/6/2016	16:19	6.81
UH-B1	5/6/2016	16:20	6.81
UH-B1	5/6/2016	16:21	6.81
UH-B1	5/6/2016	16:22	6.82
UH-B1	5/6/2016	16:23	6.82
UH-B1	5/6/2016	16:24	6.82
UH-B1	5/6/2016	16:25	6.82

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	16:26	6.82
UH-B1	5/6/2016	16:27	6.82
UH-B1	5/6/2016	16:28	6.82
UH-B1	5/6/2016	16:29	6.82
UH-B1	5/6/2016	16:30	6.82
UH-B1	5/6/2016	16:31	6.82
UH-B1	5/6/2016	16:32	6.82
UH-B1	5/6/2016	16:33	6.81
UH-B1	5/6/2016	16:34	6.81
UH-B1	5/6/2016	16:35	6.81
UH-B1	5/6/2016	16:36	6.81
UH-B1	5/6/2016	16:37	6.81
UH-B1	5/6/2016	16:38	6.81
UH-B1	5/6/2016	16:39	6.81
UH-B1	5/6/2016	16:40	6.81
UH-B1	5/6/2016	16:41	6.81
UH-B1	5/6/2016	16:42	6.81
UH-B1	5/6/2016	16:43	6.81
UH-B1	5/6/2016	16:44	6.81
UH-B1	5/6/2016	16:45	6.81
UH-B1	5/6/2016	16:46	6.81
UH-B1	5/6/2016	16:47	6.81
UH-B1	5/6/2016	16:48	6.81
UH-B1	5/6/2016	16:49	6.81
UH-B1	5/6/2016	16:50	6.81
UH-B1	5/6/2016	16:51	6.81
UH-B1	5/6/2016	16:52	6.81
UH-B1	5/6/2016	16:53	6.81
UH-B1	5/6/2016	16:54	6.81
UH-B1	5/6/2016	16:55	6.81
UH-B1	5/6/2016	16:56	6.81
UH-B1	5/6/2016	16:57	6.81
UH-B1	5/6/2016	16:58	6.81
UH-B1	5/6/2016	16:59	6.81
UH-B1	5/6/2016	17:00	6.81
UH-B1	5/6/2016	17:01	6.81
UH-B1	5/6/2016	17:02	6.81
UH-B1	5/6/2016	17:03	6.81
UH-B1	5/6/2016	17:04	6.81
UH-B1	5/6/2016	17:05	6.81
UH-B1	5/6/2016	17:06	6.81
UH-B1	5/6/2016	17:07	6.81

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	17:08	6.81
UH-B1	5/6/2016	17:09	6.81
UH-B1	5/6/2016	17:10	6.81
UH-B1	5/6/2016	17:11	6.8
UH-B1	5/6/2016	17:12	6.8
UH-B1	5/6/2016	17:13	6.8
UH-B1	5/6/2016	17:14	6.8
UH-B1	5/6/2016	17:15	6.8
UH-B1	5/6/2016	17:16	6.8
UH-B1	5/6/2016	17:17	6.8
UH-B1	5/6/2016	17:18	6.8
UH-B1	5/6/2016	17:19	6.8
UH-B1	5/6/2016	17:20	6.8
UH-B1	5/6/2016	17:21	6.8
UH-B1	5/6/2016	17:22	6.8
UH-B1	5/6/2016	17:23	6.8
UH-B1	5/6/2016	17:24	6.8
UH-B1	5/6/2016	17:25	6.8
UH-B1	5/6/2016	17:26	6.8
UH-B1	5/6/2016	17:27	6.8
UH-B1	5/6/2016	17:28	6.8
UH-B1	5/6/2016	17:29	6.8
UH-B1	5/6/2016	17:30	6.8
UH-B1	5/6/2016	17:31	6.8
UH-B1	5/6/2016	17:32	6.8
UH-B1	5/6/2016	17:33	6.8
UH-B1	5/6/2016	17:34	6.8
UH-B1	5/6/2016	17:35	6.8
UH-B1	5/6/2016	17:36	6.8
UH-B1	5/6/2016	17:37	6.8
UH-B1	5/6/2016	17:38	6.8
UH-B1	5/6/2016	17:39	6.8
UH-B1	5/6/2016	17:40	6.8
UH-B1	5/6/2016	17:41	6.8
UH-B1	5/6/2016	17:42	6.8
UH-B1	5/6/2016	17:43	6.8
UH-B1	5/6/2016	17:44	6.8
UH-B1	5/6/2016	17:45	6.8
UH-B1	5/6/2016	17:46	6.8
UH-B1	5/6/2016	17:47	6.8
UH-B1	5/6/2016	17:48	6.8
UH-B1	5/6/2016	17:49	6.8

Existing System With Inflow Hydrograph.inp

UH-B1	5/6/2016	17:50	6.8
UH-B1	5/6/2016	17:51	6.8
UH-B1	5/6/2016	17:52	6.8
UH-B1	5/6/2016	17:53	6.8
UH-B1	5/6/2016	17:54	6.8
UH-B1	5/6/2016	17:55	6.8
UH-B1	5/6/2016	17:56	6.8
UH-B1	5/6/2016	17:57	6.8
UH-B1	5/6/2016	17:58	6.8
UH-B1	5/6/2016	17:59	6.8

;Unit hydrograph for sub-basin #10 using COA DPM Modified Rational Method.

UH-B10	5/6/2016	0:00	0
UH-B10	5/6/2016	0:14	5.03
UH-B10	5/6/2016	0:21	5.03
UH-B10	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #11 using COA DPM Modified Rational Method.

UH-B11	5/6/2016	0:00	0
UH-B11	5/6/2016	0:15	17.84
UH-B11	5/6/2016	0:19	17.84
UH-B11	5/6/2016	0:45	0

;Unit hydrograph for sub-basin 12 using COA DPM Modified Rational Method.

UH-B12	5/6/2016	0:00	0
UH-B12	5/6/2016	0:14	7.08
UH-B12	5/6/2016	0:20	7.08
UH-B12	5/6/2016	0:45	0

;Unit hydrograph for sub-basin 13 using COA DPM Modified Rational Method.

UH-B13	5/6/2016	0:00	0
UH-B13	5/6/2016	0:14	26.51
UH-B13	5/6/2016	0:21	26.51
UH-B13	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #2 using COA DPM Modified Rational Method.

UH-B2	5/6/2016	0:00	0
UH-B2	5/6/2016	0:14	21.48
UH-B2	5/6/2016	0:21	21.48
UH-B2	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #3 using COA DPM Modified Rational Method.

Existing System With Inflow Hydrograph.inp

UH-B3	5/6/2016	0:00	0
UH-B3	5/6/2016	0:14	6.43
UH-B3	5/6/2016	0:20	6.43
UH-B3	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #4 using COA DPM Modified Rational Method.

UH-B4	5/6/2016	0:00	0
UH-B4	5/6/2016	0:14	6.96
UH-B4	5/6/2016	0:21	6.96
UH-B4	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #5 using COA DPM Modified Rational Method

UH-B5	5/6/2016	0:00	0
UH-B5	5/6/2016	0:14	14.64
UH-B5	5/6/2016	0:21	14.64
UH-B5	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #6 using COA DPM Modified Rational Method.

UH-B6	5/6/2016	0:00	0
UH-B6	5/6/2016	0:14	11.73
UH-B6	5/6/2016	0:21	11.73
UH-B6	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #7 using COA DPM Modified Rational Method.

UH-B7	5/6/2016	0:00	0
UH-B7	5/6/2016	0:14	9.15
UH-B7	5/6/2016	0:21	9.15
UH-B7	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #8 using COA DPM Modified Rational Method.

UH-B8	5/6/2016	0:00	0
UH-B8	5/6/2016	0:14	8.71
UH-B8	5/6/2016	0:21	8.71
UH-B8	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #9 using COA DPM Modified Rational Method.

UH-B9	5/6/2016	0:00	0
UH-B9	5/6/2016	0:14	11.05
UH-B9	5/6/2016	0:21	11.05
UH-B9	5/6/2016	0:45	0

[REPORT]

Existing System With Inflow Hydrograph.inp

INPUT YES
CONTROLS YES

[TAGS]

[MAP]

DIMENSIONS	1520848.93	1481094.56	1521757.51	1483178.35
UNITS	Feet			

[COORDINATES]

; ;Node	X-Coord	Y-Coord
DI2024	1521464.40	1482627.25
DI2046	1521132.64	1482625.37
K14941	1521127.10	1482521.88
K14942	1521091.60	1482287.96
K14943	1521139.22	1482285.17
K14944	1521142.93	1482609.67
K14945	1521410.07	1482629.98
K14951	1521435.40	1482633.43
K14952	1521444.18	1482278.82
K14953	1521650.77	1482287.06
K14954	1521432.24	1482666.96
L14041	1521030.20	1481900.11
L14042	1521049.29	1481897.72
L14051	1521229.76	1481896.04
L14052	1521448.09	1482120.24
L14053	1521654.92	1482095.97
L14054	1521657.12	1481896.30
L14055	1521412.85	1481899.95
L14141	1520921.98	1481228.76
L14142	1520974.20	1481554.94
L14143	1520918.32	1481193.13
L14146	1521008.94	1481549.41
L14151	1521357.36	1481565.42
L14152	1521298.17	1481200.66
L14999	1521264.33	1481195.52
L14JB145	1521003.65	1481189.28
L14JB2	1520997.60	1481244.15
Unknown	1521090.49	1482982.33
L14PS1	1520997.73	1481242.01
SBroadwayPond	1521439.08	1483083.63

Existing System With Inflow Hydrograph.inp

[VERTICES]

;;Link	X-Coord	Y-Coord
Bell_A	1520962.58	1481217.12
Bell_B	1521135.35	1481250.80
Bell_C	1521271.32	1481233.96
Commercial_1	1521006.17	1482100.16
Commercial_2	1520943.12	1481714.30
Commercial_Sag	1521091.07	1482563.31
Cromwell_Junct	1521113.77	1482303.59
E.Cromwell	1521561.32	1482327.70
E.Garfield	1521540.07	1481972.68
Lewis_Junct	1521002.71	1481579.91
N.Commercial	1521030.16	1482398.29
N.John	1521705.92	1482179.23
N.William	1521487.30	1482435.30
Pacific	1521246.24	1482667.33
Pacific_William	1521465.12	1482651.40
S.Commercial_A	1520895.83	1481387.38
S.Commercial_B	1520890.23	1481220.24
S.John	1521716.21	1482043.27
S.William	1521398.89	1481381.21
W.Garfield_A	1521152.26	1481980.28
W.Garfield_B	1521238.51	1481985.02
W.Garfield_Junct	1521043.84	1481915.03
William_1A	1521513.22	1482191.70
William_1B	1521505.12	1482095.36
William_2	1521448.92	1481693.74
William_Pacific	1521394.65	1482667.62

[PROFILES]

;;Name	Links
;;-----	
"SouthBroadwaytoPump"	SDP1 SDP2 SDP3 SDP4 SDP5
"SouthBroadwaytoPump"	SDP6 SDP7 SDP8 SDP9 SDP10
"SouthBroadwaytoPump"	SDP28
"SouthBroadway Pond to Pump Station through Road"	SDP1 William_Pacific Pacific_Commercial SDP4 SDP5
"SouthBroadway Pond to Pump Station through Road"	SDP6 SDP7 SDP8 SDP9 SDP10
"SouthBroadway Pond to Pump Station through Road"	SDP28
"	SDP1 Williams_Pacific SDP4 SDP5 SDP6
"	SDP7 SDP8 SDP9 SDP10 SDP28
"SouthBroadway Street Profile"	SDP1 Williams_Pacific SDP4 SDP5 SDP6

Existing System With Inflow Hydrograph.inp

"SouthBroadway Street Profile"	SDP7	SDP8	SDP9	SDP10	SDP28
"FullStreet"	"	SDP1	Williams_Pacific	Commercial	SDP5 SDP6
"FullStreet"	"	SDP7	SDP8	SDP9	SDP10 SDP28

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

NOTE: The summary statistics displayed in this report are based on results found at every computational time step, not just on results from each reporting time step.

Analysis Options

Flow Units CFS

Process Models:

Rainfall/Runoff NO

Snowmelt NO

Groundwater NO

Flow Routing YES

Ponding Allowed NO

Water Quality NO

Flow Routing Method DYNWAVE

Starting Date MAY-06-2016 00:00:00

Ending Date MAY-06-2016 06:00:00

Antecedent Dry Days 0.0

Report Time Step 00:00:15

Routing Time Step 15.00 sec

WARNING 04: minimum elevation drop used for Conduit Bell_C

WARNING 04: minimum elevation drop used for Conduit Lewis_Junct

WARNING 02: maximum depth increased for Node L14051

WARNING 02: maximum depth increased for Node L14053

Element Count

Number of rain gages 0

Existing System With Inflow Hydrograph.rpt

Number of subcatchments ... 0
 Number of nodes 30
 Number of links 56
 Number of pollutants 0
 Number of land uses 0

Node Summary

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
DI2024	JUNCTION	4945.64	3.87	0.0	Yes
DI2046	JUNCTION	4945.39	3.50	0.0	Yes
K14941	JUNCTION	4937.35	11.75	0.0	Yes
K14942	JUNCTION	4936.82	13.35	0.0	
K14943	JUNCTION	4946.02	3.75	0.0	
K14944	JUNCTION	4937.60	11.85	0.0	
K14945	JUNCTION	4937.94	12.20	0.0	
K14951	JUNCTION	4945.21	4.60	0.0	
K14952	JUNCTION	4943.04	6.05	0.0	Yes
K14953	JUNCTION	4945.46	5.57	0.0	Yes
K14954	JUNCTION	4937.94	11.81	0.0	
L14041	JUNCTION	4936.60	11.17	0.0	
L14042	JUNCTION	4943.53	3.70	0.0	Yes
L14051	JUNCTION	4944.35	2.99	0.0	
L14052	JUNCTION	4941.40	7.23	0.0	Yes
L14053	JUNCTION	4944.98	5.58	0.0	Yes
L14054	JUNCTION	4944.59	7.27	0.0	
L14055	JUNCTION	4939.88	9.56	0.0	Yes
L14141	JUNCTION	4936.08	12.24	0.0	
L14142	JUNCTION	4935.24	13.23	0.0	Yes
L14143	JUNCTION	4935.66	12.35	0.0	Yes
L14146	JUNCTION	4943.06	5.41	0.0	
L14151	JUNCTION	4939.08	9.82	0.0	Yes
L14152	JUNCTION	4937.58	11.05	0.0	Yes
L14999	JUNCTION	4937.30	11.28	0.0	
L14JB145	JUNCTION	4934.73	13.55	0.0	
L14JB2	OUTFALL	4952.21	0.00	0.0	
Unknown	OUTFALL	4952.00	15.32	0.0	
L14PS1	STORAGE	4926.99	22.67	0.0	

SBroadwayPond STORAGE Existing System With Inflow Hydrograph.rpt
 4938.42 15.25 0.0 Yes

 Link Summary

Name	From Node	To Node	Type	Length	%Slope	Roughness
Bell_A	L14JB145	L14143	CONDUIT	86.0	0.5930	0.0170
Bell_B	L14999	L14JB145	CONDUIT	261.0	0.0843	0.0170
Bell_C	L14152	L14999	CONDUIT	35.0	0.0029	0.0170
Commercial_1	K14942	L14041	CONDUIT	393.0	0.6641	0.0170
Commercial_2	L14142	L14041	CONDUIT	350.0	0.2343	0.0170
Commercial_Sag	K14941	DI2046	CONDUIT	92.2	0.2821	0.0170
Cromwell_Junct	K14942	K14943	CONDUIT	48.0	0.9792	0.0170
E.Cromwell	K14953	K14952	CONDUIT	170.0	1.0883	0.0170
E.Garfield	L14054	L14055	CONDUIT	244.0	1.0656	0.0170
Lewis_Junct	L14142	L14146	CONDUIT	35.0	0.0029	0.0170
Link-13	DI2024	K14951	CONDUIT	18.4	0.4346	0.0130
Link-14	DI2046	K14944	CONDUIT	46.1	16.8088	0.0130
N.Commercial	K14942	K14941	CONDUIT	234.0	0.5513	0.0170
N.John	K14953	L14053	CONDUIT	191.0	0.1466	0.0170
N.William	DI2024	K14952	CONDUIT	355.0	0.0958	0.0170
Pacific	K14945	DI2046	CONDUIT	268.0	0.5672	0.0170
Pacific_William	K14954	K14951	CONDUIT	34.0	1.2354	0.0170
S.Commercial_A	L14142	L14141	CONDUIT	330.0	0.0182	0.0170
S.Commercial_B	L14141	L14143	CONDUIT	36.0	1.5280	0.0170
S.John	L14054	L14053	CONDUIT	200.0	0.6500	0.0170
S.William	L14152	L14151	CONDUIT	370.0	0.0081	0.0170
SDP1	SBroadwayPond	K14954	CONDUIT	411.0	0.0925	0.0130
SDP10	L14143	L14JB145	CONDUIT	85.4	0.5971	0.0130
SDP11	K14951	K14952	CONDUIT	354.7	0.5892	0.0130
SDP12	K14952	L14052	CONDUIT	158.6	0.7817	0.0130
SDP13	L14052	L14055	CONDUIT	223.1	0.4572	0.0130
SDP14	L14055	L14151	CONDUIT	339.1	0.1268	0.0130
SDP15	L14151	L14152	CONDUIT	369.5	0.1759	0.0130
SDP16	L14999	L14152	CONDUIT	34.2	1.4317	0.0130
SDP17	L14999	L14JB145	CONDUIT	260.8	0.7172	0.0130
SDP19	L14055	L14051	CONDUIT	183.1	0.1201	0.0130
SDP2	K14945	K14954	CONDUIT	43.1	0.1159	0.0130
SDP20	L14053	L14054	CONDUIT	199.7	0.1953	0.0130
SDP21	K14953	L14053	CONDUIT	191.1	0.2093	0.0130

Existing System With Inflow Hydrograph.rpt

SDP22	L14054	L14055	CONDUIT	244.3	0.1199	0.0130
SDP24	L14042	L14041	CONDUIT	19.2	0.1195	0.0130
SDP25	L14051	L14042	CONDUIT	180.5	0.1219	0.0130
SDP26	L14146	L14142	CONDUIT	35.2	0.1194	0.0130
SDP27	K14943	K14942	CONDUIT	47.7	0.4192	0.0130
SDP28	L14JB145	L14PS1	CONDUIT	53.1	2.4320	0.0130
SDP3	K14945	K14944	CONDUIT	267.9	0.0709	0.0130
SDP4	K14944	K14941	CONDUIT	92.2	0.1085	0.0130
SDP5	K14941	K14942	CONDUIT	233.6	0.1413	0.0130
SDP6	K14942	L14041	CONDUIT	392.7	0.0255	0.0130
SDP7	L14041	L14142	CONDUIT	349.7	0.3603	0.0130
SDP8	L14141	L14142	CONDUIT	330.3	0.2785	0.0130
SDP9	L14143	L14141	CONDUIT	35.8	2.2344	0.0130
W.Garfield_A	L14051	L14042	CONDUIT	181.0	0.2044	0.0170
W.Garfield_B	L14055	L14051	CONDUIT	183.0	1.0492	0.0170
W.Garfield_Junct	L14041	L14042	CONDUIT	19.0	3.1068	0.0170
William_1A	K14952	L14052	CONDUIT	158.0	0.3418	0.0170
William_1B	L14055	L14052	CONDUIT	223.0	0.3632	0.0170
William_2	L14055	L14151	CONDUIT	339.0	0.2330	0.0170
William_Pacific	K14945	K14954	CONDUIT	43.0	0.9070	0.0170
PUMP_CT-3500-135_02	L14PS1	L14JB2	TYPE3 PUMP			
EmergencySpillwaySBroadwayPond	Unknown		WEIR			

Cross Section Summary

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
Bell_A	Standard	0.67	16.28	0.49	32.00	1	68.05
Bell_B	Standard	0.67	16.28	0.49	32.00	1	25.66
Bell_C	Standard	0.67	16.28	0.49	32.00	1	4.72
Commercial_1	Standard	0.67	16.28	0.49	32.00	1	72.02
Commercial_2	Standard	0.67	16.28	0.49	32.00	1	42.77
Commercial_Sag	Standard	0.67	16.28	0.49	32.00	1	46.94
Cromwell_Junct	Standard	0.67	16.28	0.49	32.00	1	87.44
E.Cromwell	Standard	0.67	16.28	0.49	32.00	1	92.19
E.Garfield	Standard	0.67	16.28	0.49	32.00	1	91.22
Lewis_Junct	Standard	0.67	16.28	0.49	32.00	1	4.72
Link-13	CIRCULAR	1.50	1.77	0.38	1.50	1	6.92
Link-14	CIRCULAR	1.50	1.77	0.38	1.50	1	43.07

Existing System With Inflow Hydrograph.rpt

N.Commercial	Standard	0.67	16.28	0.49	32.00	1	65.61
N.John	Standard	0.67	16.28	0.49	32.00	1	33.83
N.William	Standard	0.67	16.28	0.49	32.00	1	27.35
Pacific	Standard	0.67	16.28	0.49	32.00	1	66.55
Pacific_William	Standard	0.67	16.28	0.49	32.00	1	98.22
S.Commercial_A	Standard	0.67	16.28	0.49	32.00	1	11.92
S.Commercial_B	Standard	0.67	16.28	0.49	32.00	1	109.23
S.John	Standard	0.67	16.28	0.49	32.00	1	71.25
S.William	Standard	0.67	16.28	0.49	32.00	1	7.96
SDP1	CIRCULAR	2.50	4.91	0.63	2.50	1	12.47
SDP10	CIRCULAR	4.00	12.57	1.00	4.00	1	111.00
SDP11	CIRCULAR	2.00	3.14	0.50	2.00	1	17.37
SDP12	CIRCULAR	2.00	3.14	0.50	2.00	1	20.00
SDP13	CIRCULAR	2.50	4.91	0.63	2.50	1	27.73
SDP14	CIRCULAR	3.00	7.07	0.75	3.00	1	23.75
SDP15	CIRCULAR	3.00	7.07	0.75	3.00	1	27.97
SDP16	CIRCULAR	4.00	12.57	1.00	4.00	1	171.87
SDP17	CIRCULAR	4.00	12.57	1.00	4.00	1	121.64
SDP19	CIRCULAR	1.00	0.79	0.25	1.00	1	1.23
SDP2	CIRCULAR	2.50	4.91	0.63	2.50	1	13.97
SDP20	CIRCULAR	1.00	0.79	0.25	1.00	1	1.57
SDP21	CIRCULAR	1.00	0.79	0.25	1.00	1	1.63
SDP22	CIRCULAR	1.00	0.79	0.25	1.00	1	1.23
SDP24	CIRCULAR	1.50	1.77	0.38	1.50	1	3.63
SDP25	CIRCULAR	1.00	0.79	0.25	1.00	1	1.24
SDP26	CIRCULAR	1.50	1.77	0.38	1.50	1	3.63
SDP27	CIRCULAR	1.50	1.77	0.38	1.50	1	6.80
SDP28	CIRCULAR	4.00	12.57	1.00	4.00	1	224.01
SDP3	CIRCULAR	2.50	4.91	0.63	2.50	1	10.92
SDP4	CIRCULAR	2.50	4.91	0.63	2.50	1	13.51
SDP5	CIRCULAR	2.50	4.91	0.63	2.50	1	15.42
SDP6	CIRCULAR	2.50	4.91	0.63	2.50	1	6.55
SDP7	CIRCULAR	2.50	4.91	0.63	2.50	1	24.62
SDP8	CIRCULAR	2.50	4.91	0.63	2.50	1	21.65
SDP9	CIRCULAR	4.00	12.57	1.00	4.00	1	214.72
W.Garfield_A	Standard	0.67	16.28	0.49	32.00	1	39.95
W.Garfield_B	Standard	0.67	16.28	0.49	32.00	1	90.52
W.Garfield_Junct	Standard	0.67	16.28	0.49	32.00	1	155.76
William_1A	Standard	0.67	16.28	0.49	32.00	1	51.66
William_1B	Standard	0.67	16.28	0.49	32.00	1	53.26
William_2	Standard	0.67	16.28	0.49	32.00	1	42.66
William_Pacific	Standard	0.67	16.28	0.49	32.00	1	84.16

Transect Summary

Transect Standard

Area:

0.0005	0.0022	0.0049	0.0088	0.0137
0.0198	0.0269	0.0352	0.0445	0.0550
0.0665	0.0791	0.0929	0.1077	0.1236
0.1407	0.1588	0.1780	0.1984	0.2198
0.2423	0.2660	0.2907	0.3165	0.3428
0.3690	0.3953	0.4215	0.4478	0.4740
0.5003	0.5266	0.5528	0.5791	0.6054
0.6317	0.6580	0.6843	0.7106	0.7369
0.7632	0.7895	0.8158	0.8421	0.8684
0.8947	0.9210	0.9473	0.9737	1.0000

Hrad:

0.0134	0.0268	0.0402	0.0536	0.0670
0.0805	0.0939	0.1073	0.1207	0.1341
0.1475	0.1609	0.1743	0.1877	0.2011
0.2145	0.2279	0.2414	0.2548	0.2682
0.2816	0.2950	0.3084	0.3234	0.3499
0.3764	0.4028	0.4292	0.4556	0.4819
0.5082	0.5344	0.5606	0.5868	0.6129
0.6390	0.6650	0.6910	0.7170	0.7429
0.7688	0.7947	0.8205	0.8462	0.8719
0.8976	0.9233	0.9489	0.9745	1.0000

Width:

0.0417	0.0835	0.1252	0.1670	0.2087
0.2504	0.2922	0.3339	0.3756	0.4174
0.4591	0.5009	0.5426	0.5843	0.6261
0.6678	0.7096	0.7513	0.7930	0.8348
0.8765	0.9182	0.9600	0.9968	0.9969
0.9970	0.9971	0.9972	0.9974	0.9975
0.9976	0.9977	0.9979	0.9980	0.9981
0.9983	0.9984	0.9985	0.9986	0.9988
0.9989	0.9990	0.9991	0.9992	0.9994
0.9995	0.9996	0.9998	0.9999	1.0000

Control Actions Taken

	Volume acre-feet	Volume 10 ⁶ gal
Flow Routing Continuity	-----	-----
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.000	0.000
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	95.031	30.967
External Outflow	37.362	12.175
Internal Outflow	40.052	13.052
Storage Losses	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	17.776	5.793
Continuity Error (%)	-0.168	

Highest Continuity Errors

Node K14943 (19.02%)
Node L14051 (-5.67%)
Node L14146 (2.25%)
Node L14143 (-1.25%)

Time-Step Critical Elements

Link SDP9 (62.46%)
Link SDP28 (23.65%)
Link SDP24 (3.75%)
Link Link-13 (3.32%)
Link W.Garfield_Junct (2.44%)

Highest Flow Instability Indexes

Link SDP9 (4)

Link SDP28 (4)

Link SDP10 (3)

Link SDP11 (3)

Link SDP16 (2)

Routing Time Step Summary

Minimum Time Step : 0.50 sec

Average Time Step : 1.98 sec

Maximum Time Step : 15.00 sec

Percent in Steady State : 0.00

Average Iterations per Step : 2.13

Node Depth Summary

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
DI2024	JUNCTION	2.35	3.56	4949.20	0 00:21
DI2046	JUNCTION	3.40	3.50	4948.89	0 00:04
K14941	JUNCTION	10.90	11.54	4948.89	0 00:30
K14942	JUNCTION	9.66	11.47	4948.29	0 00:31
K14943	JUNCTION	0.76	2.27	4948.29	0 00:31
K14944	JUNCTION	10.79	11.38	4948.98	0 00:40
K14945	JUNCTION	10.81	11.58	4949.52	0 01:38
K14951	JUNCTION	2.80	4.52	4949.73	0 00:43
K14952	JUNCTION	2.01	5.91	4948.95	0 00:22
K14953	JUNCTION	0.60	5.07	4950.53	0 00:21
K14954	JUNCTION	10.98	11.81	4949.75	0 00:43
L14041	JUNCTION	6.97	10.67	4947.27	0 00:31
L14042	JUNCTION	0.36	3.70	4947.23	0 00:20
L14051	JUNCTION	0.20	2.98	4947.33	0 00:22

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L14052	JUNCTION	1.86	7.23	4948.63	0	00:18
L14053	JUNCTION	0.64	5.58	4950.56	0	00:19
L14054	JUNCTION	0.55	5.05	4949.64	0	00:23
L14055	JUNCTION	2.20	8.65	4948.53	0	00:22
L14141	JUNCTION	2.58	12.24	4948.32	0	00:18
L14142	JUNCTION	5.70	12.59	4947.83	0	00:19
L14143	JUNCTION	2.14	12.35	4948.01	0	00:18
L14146	JUNCTION	0.17	4.82	4947.88	0	00:19
L14151	JUNCTION	2.11	9.17	4948.25	0	00:22
L14152	JUNCTION	1.99	10.48	4948.06	0	00:20
L14999	JUNCTION	1.53	10.72	4948.02	0	00:20
L14JB145	JUNCTION	2.08	13.19	4947.92	0	00:19
L14JB2	OUTFALL	0.00	0.00	4952.21	0	00:00
Unknown	OUTFALL	0.00	0.00	4952.00	0	00:00
L14PS1	STORAGE	1.84	20.87	4947.86	0	00:19
SBroadwayPond	STORAGE	13.15	15.25	4953.67	0	00:48

Node Inflow Summary

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
DI2024	JUNCTION	21.48	21.48	0 00:14	0.250	0.492
DI2046	JUNCTION	527.52	527.52	0 00:18	14.632	14.772
K14941	JUNCTION	6.43	47.87	0 00:04	0.074	5.608
K14942	JUNCTION	0.00	37.04	0 01:39	0.000	5.527
K14943	JUNCTION	0.00	0.97	0 00:16	0.000	0.001
K14944	JUNCTION	0.00	31.56	0 00:04	0.000	2.728
K14945	JUNCTION	0.00	51.80	0 01:14	0.000	3.580
K14951	JUNCTION	0.00	30.32	0 01:39	0.000	2.735
K14952	JUNCTION	6.96	48.21	0 00:21	0.081	3.163
K14953	JUNCTION	14.64	20.21	0 00:20	0.171	0.216
K14954	JUNCTION	0.00	82.06	0 00:55	0.000	6.243
L14041	JUNCTION	0.00	36.99	0 01:40	0.000	5.613
L14042	JUNCTION	11.73	44.51	0 00:21	0.137	0.295
L14051	JUNCTION	0.00	17.42	0 00:21	0.000	0.048

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L14052	JUNCTION	9.15	55.55	0	00:22	0.107	3.268
L14053	JUNCTION	8.71	11.78	0	00:13	0.102	0.121
L14054	JUNCTION	0.00	4.50	0	00:06	0.000	0.074
L14055	JUNCTION	11.05	46.07	0	00:14	0.129	3.211
L14141	JUNCTION	0.00	193.69	0	00:18	0.000	5.550
L14142	JUNCTION	5.03	39.65	0	00:18	0.059	5.534
L14143	JUNCTION	7.08	160.68	0	00:19	0.081	5.671
L14146	JUNCTION	0.00	2.67	0	00:19	0.000	0.002
L14151	JUNCTION	17.84	58.90	0	00:13	0.196	3.370
L14152	JUNCTION	26.51	82.48	0	00:13	0.309	3.676
L14999	JUNCTION	0.00	79.72	0	00:13	0.000	3.672
L14JB145	JUNCTION	0.00	173.10	0	00:17	0.000	9.336
L14JB2	OUTFALL	0.00	80.00	0	00:02	0.000	9.332
Unknown	OUTFALL	0.00	111.30	0	00:48	0.000	2.842
L14PS1	STORAGE	0.00	128.81	0	00:17	0.000	9.335
SBroadwayPond	STORAGE	527.52	547.81	0	00:18	14.632	14.795

Node Surge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
DI2046	JUNCTION	5.93	0.270	0.000
K14941	JUNCTION	0.20	0.011	0.209
K14944	JUNCTION	5.91	8.732	0.468
K14951	JUNCTION	1.00	0.403	0.077
K14954	JUNCTION	0.57	0.000	0.000
L14042	JUNCTION	0.46	0.260	0.000
L14052	JUNCTION	0.39	0.180	0.000
L14053	JUNCTION	0.06	0.000	0.000
L14141	JUNCTION	0.01	0.000	0.000
L14143	JUNCTION	0.04	0.240	0.000
L14PS1	STORAGE	0.87	10.417	1.803

Node Flooding Summary

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume 10^6 gal	Maximum Ponded Depth Feet
DI2046	3.35	491.16	0 00:18	11.343	3.50
K14954	0.50	9.49	0 00:48	0.039	11.81
L14042	0.27	38.79	0 00:31	0.165	3.70
L14052	0.36	46.11	0 00:22	0.275	7.23
L14053	0.06	0.68	0 00:21	0.001	5.58
L14143	0.02	87.46	0 00:19	0.027	12.35
SBroadwayPond	0.49	206.84	0 00:48	1.203	15.25

Storage Volume Summary

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	E&I Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
L14PS1	0.277	5	0	4.319	85	0 00:19	80.00
SBroadwayPond	817.290	80	0	1021.243	100	0 00:48	151.10

Outfall Loading Summary

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
L14JB2	99.40	57.26	80.00	9.332

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Unknown	32.50	57.06	111.30	2.842

System	65.95	114.32	191.30	12.174

Link Flow Summary

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Veloc ft/sec	Max/ Full Flow	Max/ Full Depth

Bell_A	CHANNEL	27.61	0 00:19	2.34	0.41	0.82
Bell_B	CHANNEL	0.38	0 00:20	0.36	0.01	0.35
Bell_C	CHANNEL	1.15	0 00:20	0.71	0.24	0.30
Commercial_1	CHANNEL	0.00	0 00:00	0.00	0.00	0.28
Commercial_2	CHANNEL	0.44	0 00:19	0.58	0.01	0.28
Commercial_Sag	CHANNEL	25.92	0 00:25	2.03	0.55	1.00
Cromwell_Junct	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
E.Cromwell	CHANNEL	20.19	0 00:21	2.98	0.22	0.74
E.Garfield	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
Lewis_Junct	CHANNEL	0.53	0 00:19	0.88	0.11	0.22
Link-13	CONDUIT	14.50	0 00:10	8.20	2.09	1.00
Link-14	CONDUIT	31.56	0 00:04	19.12	0.73	1.00
N.Commercial	CHANNEL	0.00	0 00:00	0.00	0.00	0.50
N.John	CHANNEL	5.36	0 00:23	0.68	0.16	0.77
N.William	CHANNEL	16.77	0 00:21	1.39	0.61	0.87
Pacific	CHANNEL	0.08	0 01:38	0.01	0.00	0.53
Pacific_William	CHANNEL	30.32	0 01:39	3.37	0.31	1.00
S.Commercial_A	CHANNEL	21.82	0 00:19	1.94	1.83	0.78
S.Commercial_B	CHANNEL	72.89	0 00:19	6.82	0.67	0.97
S.John	CHANNEL	0.00	0 00:00	0.00	0.00	0.50
S.William	CHANNEL	3.10	0 00:22	0.61	0.39	0.48
SDP1	CONDUIT	39.80	0 01:18	8.11	3.19	1.00
SDP10	CONDUIT	109.50	0 00:17	8.71	0.99	1.00
SDP11	CONDUIT	22.71	0 01:57	7.23	1.31	1.00
SDP12	CONDUIT	30.34	0 00:57	9.74	1.52	1.00
SDP13	CONDUIT	35.75	0 00:46	7.28	1.29	1.00
SDP14	CONDUIT	42.52	0 00:13	6.02	1.79	1.00
SDP15	CONDUIT	56.85	0 00:13	8.07	2.03	1.00

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SDP16	CONDUIT	79.72	0	00:13	10.30	0.46	1.00
SDP17	CONDUIT	74.40	0	00:12	9.67	0.61	1.00
SDP19	CONDUIT	3.34	0	00:19	4.49	2.70	1.00
SDP2	CONDUIT	51.80	0	01:14	10.55	3.71	1.00
SDP20	CONDUIT	4.50	0	00:06	5.73	2.86	1.00
SDP21	CONDUIT	3.25	0	00:04	4.14	1.99	1.00
SDP22	CONDUIT	3.95	0	00:48	5.19	3.20	1.00
SDP24	CONDUIT	12.02	0	00:15	6.80	3.31	1.00
SDP25	CONDUIT	1.72	0	00:51	2.19	1.38	1.00
SDP26	CONDUIT	2.67	0	00:19	2.41	0.73	1.00
SDP27	CONDUIT	0.97	0	00:16	1.57	0.14	1.00
SDP28	CONDUIT	128.81	0	00:17	16.59	0.58	1.00
SDP3	CONDUIT	23.87	0	00:05	5.04	2.19	1.00
SDP4	CONDUIT	22.13	0	06:00	4.88	1.64	1.00
SDP5	CONDUIT	37.04	0	01:39	7.54	2.40	1.00
SDP6	CONDUIT	36.99	0	01:40	7.54	5.65	1.00
SDP7	CONDUIT	37.75	0	01:02	7.69	1.53	1.00
SDP8	CONDUIT	40.53	0	01:01	8.51	1.87	1.00
SDP9	CONDUIT	172.60	0	00:18	13.74	0.80	1.00
W.Garfield_A	CHANNEL	13.53	0	00:21	1.07	0.34	1.00
W.Garfield_B	CHANNEL	0.00	0	00:00	0.00	0.00	0.50
W.Garfield_Junct	CHANNEL	29.82	0	00:31	2.62	0.19	0.78
William_1A	CHANNEL	37.04	0	00:22	2.38	0.72	0.97
William_1B	CHANNEL	0.27	0	00:18	0.05	0.01	0.55
William_2	CHANNEL	0.00	0	00:00	0.00	0.00	0.34
William_Pacific	CHANNEL	42.26	0	00:55	3.13	0.50	0.87
PUMP_CT-3500-135_02	PUMP	80.00	0	00:02		1.00	
EmergencySpillway	WEIR	111.30	0	00:48			0.93

Flow Classification Summary

Conduit	Adjusted /Actual Length	--- Dry	Fraction of Up Dry	Time in Flow Down Dry	Class Sub Crit	Sup Crit	---- Up Crit	Down Crit	Avg. Froude Number	Avg. Flow Change
Bell_A	1.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0003
Bell_B	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Bell_C	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001

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Commercial_1	1.00	0.96	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Commercial_2	1.00	0.96	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Commercial_Sag	1.00	0.01	0.00	0.00	0.63	0.00	0.36	0.00	0.40	0.0002
Cromwell_Junct	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
E.Cromwell	1.00	0.90	0.00	0.00	0.04	0.00	0.00	0.06	0.08	0.0000
E.Garfield	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Lewis_Junct	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Link-13	1.00	0.00	0.00	0.00	0.98	0.00	0.00	0.02	0.02	0.0009
Link-14	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.0002
N.Commercial	1.00	0.07	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
N.John	1.00	0.90	0.00	0.00	0.09	0.00	0.00	0.01	0.02	0.0000
N.William	1.00	0.70	0.00	0.00	0.04	0.00	0.00	0.25	0.12	0.0001
Pacific	1.00	0.01	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Pacific_William	1.00	0.07	0.02	0.00	0.18	0.01	0.00	0.72	1.00	0.0001
S.Commercial_A	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0005
S.Commercial_B	1.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0006
S.John	1.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
S.William	1.00	0.97	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.0001
SDP1	1.00	0.01	0.00	0.00	0.98	0.00	0.00	0.00	0.01	0.0009
SDP10	1.00	0.00	0.00	0.00	0.12	0.01	0.00	0.87	1.12	0.0016
SDP11	1.00	0.00	0.00	0.00	0.38	0.00	0.00	0.62	0.48	0.0005
SDP12	1.00	0.00	0.00	0.00	0.12	0.00	0.00	0.88	0.94	0.0004
SDP13	1.00	0.00	0.00	0.00	0.27	0.00	0.00	0.73	0.86	0.0004
SDP14	1.00	0.00	0.00	0.00	0.43	0.00	0.00	0.57	0.66	0.0005
SDP15	1.00	0.00	0.00	0.00	0.09	0.00	0.00	0.91	0.73	0.0008
SDP16	1.00	0.00	0.00	0.00	0.09	0.00	0.91	0.00	0.95	0.0004
SDP17	1.00	0.00	0.00	0.00	0.11	0.00	0.00	0.88	1.27	0.0004
SDP19	1.00	0.01	0.87	0.00	0.06	0.00	0.06	0.00	0.02	0.0011
SDP2	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.0013
SDP20	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.0007
SDP21	1.00	0.00	0.00	0.00	0.17	0.00	0.00	0.83	0.16	0.0008
SDP22	1.00	0.00	0.00	0.00	0.05	0.00	0.00	0.95	0.35	0.0009
SDP24	1.00	0.00	0.00	0.00	0.65	0.00	0.00	0.35	0.15	0.0052
SDP25	1.00	0.01	0.01	0.00	0.14	0.00	0.00	0.84	0.25	0.0013
SDP26	1.00	0.06	0.00	0.00	0.07	0.00	0.00	0.87	0.07	0.0014
SDP27	1.00	0.07	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.0002
SDP28	1.00	0.00	0.00	0.00	0.12	0.00	0.00	0.88	2.24	0.0005
SDP3	1.00	0.01	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.0009
SDP4	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.0009
SDP5	1.00	0.00	0.00	0.00	0.98	0.00	0.00	0.02	0.01	0.0005
SDP6	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.01	0.01	0.0010
SDP7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.02	0.0007

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SDP8	1.00	0.00	0.01	0.00	0.98	0.00	0.01	0.00	0.65	0.0010
SDP9	1.00	0.01	0.01	0.00	0.11	0.00	0.87	0.00	1.05	0.0014
W.Garfield_A	1.00	0.95	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.0003
W.Garfield_B	1.00	0.95	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
W.Garfield_Junct	1.00	0.95	0.01	0.00	0.04	0.00	0.00	0.00	0.02	0.0002
William_1A	1.00	0.95	0.00	0.00	0.04	0.00	0.00	0.01	0.03	0.0001
William_1B	1.00	0.96	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.0000
William_2	1.00	0.97	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
William_Pacific	1.00	0.09	0.75	0.00	0.00	0.00	0.16	0.00	0.14	0.0001

Conduit Surcharge Summary

Conduit	Hours Full			Hours Above Full	
	Both Ends	Upstream	Dnstream	Normal Flow	Capacity Limited
Commercial_Sag	0.20	0.20	0.20	0.01	0.01
Link-13	4.59	4.59	4.59	1.07	0.36
Link-14	5.93	5.93	5.93	0.01	0.03
Pacific_William	0.51	0.51	0.51	0.01	0.01
S.Commercial_A	0.01	0.01	0.01	0.01	0.01
SDP1	5.88	5.88	5.88	5.79	5.52
SDP10	0.75	0.75	0.75	0.01	0.03
SDP11	1.90	1.90	1.90	2.80	1.21
SDP12	0.78	0.78	0.78	2.05	0.26
SDP13	0.75	0.75	0.75	1.10	0.38
SDP14	0.72	0.72	0.72	1.51	0.46
SDP15	0.66	0.66	0.66	1.46	0.58
SDP16	0.62	0.62	0.62	0.01	0.01
SDP17	0.66	0.66	0.66	0.01	0.01
SDP19	0.56	0.56	0.56	0.58	0.40
SDP2	5.90	5.90	5.90	5.72	0.29
SDP20	0.87	0.87	0.87	0.86	0.82
SDP21	0.88	0.88	0.88	0.07	0.07
SDP22	0.57	0.57	0.57	0.91	0.57
SDP24	0.67	0.67	0.67	0.43	0.31
SDP25	0.64	0.64	0.64	0.01	0.02
SDP26	0.56	0.56	0.56	0.01	0.05

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SDP27	0.59	0.59	0.59	0.01	0.01
SDP28	0.80	0.80	0.80	0.01	0.01
SDP3	5.90	5.90	5.90	5.05	4.74
SDP4	5.92	5.92	5.92	4.40	4.50
SDP5	5.90	5.90	5.90	5.92	5.90
SDP6	5.88	5.88	5.88	5.91	5.88
SDP7	5.88	5.88	5.88	5.47	5.48
SDP8	0.82	0.82	0.82	5.56	0.01
SDP9	0.67	0.67	0.67	0.01	0.03

Pumping Summary

Pump	Percent Utilized	Number of Start-Ups	Min Flow CFS	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal	Power Usage Kw-hr	% Time Off Pump Curve Low	% Time Off Pump Curve High
PUMP_CT-3500-135_02	99.27	1	0.00	57.26	80.00	9.332	640.01	0.0	100.0

Analysis begun on: Tue Jan 03 07:49:35 2017

Analysis ended on: Tue Jan 03 07:49:36 2017

Total elapsed time: 00:00:01

[OPTIONS]

```

FLOW_UNITS      CFS
INFILTRATION     HORTON
FLOW_ROUTING     DYNWAVE
START_DATE       05/06/2016
START_TIME       00:00:00
REPORT_START_DATE 05/06/2016
REPORT_START_TIME 00:00:00
END_DATE         05/07/2016
END_TIME         00:00:00
SWEEP_START      01/01
SWEEP_END        12/31
DRY_DAYS         0
REPORT_STEP      00:00:15
WET_STEP         00:05:00
DRY_STEP         01:00:00
ROUTING_STEP     0:00:15
ALLOW_PONDING    NO
INERTIAL_DAMPING  PARTIAL
VARIABLE_STEP    0.75
LENGTHENING_STEP 0
MIN_SURFAREA     12.557
NORMAL_FLOW_LIMITED BOTH
SKIP_STEADY_STATE NO
FORCE_MAIN_EQUATION H-W
LINK_OFFSETS     DEPTH
MIN_SLOPE        0.001

```

[JUNCTIONS]

```

;;
;;Name      Invert      Max.      Init.      Surcharge      Poned
;;          Elev.       Depth      Depth      Depth          Area
;;-----
DI2024      4945.64     3.87      0          0              0
;Max/rim_elev._is_top_of_curb_elevation.
DI2046      4945.39     3.5       0          0              0
;Rim elevation was raised to match grate elevation plus 8" curb height.
K14941      4937.35     11.75     0          0              0
;MH rim elevation changed to match lowest connecting inlet grate elevation (DI #2079 - 4949.03) plus 8" curb height.
K14942      4936.82     13.35     0          0              0
K14943      4946.02     3.75      0          0              0
K14944      4937.6      11.85     0          0              0
;Manhole rim elevation has been adjusted to the flowline elevation at the curb plus the curb height (the manhole

```

Recommended Improvements.inp

```
;is located 11 feet from the curb at a 2% cross slope).
K14945      4937.94    12.2      0        0        0
;MH rim elevation adjusted to lowest connecting inlet grate elevation (DI #2024 - 4948.66) plus 8" curb height.
K14951      4945.21     4.6       0        0        0
;MH rim elevation changed to reflect lowest connecting inlet grate elevation (DI #2327 - 4948.32) plus 8" curb height.
K14952      4943.04     6.05      0        0        0
;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2336 - 4950.17) plus 8" curb height.
K14953      4943.86     7.17      0        0        0
;Changed rim elevation to reflect the location of the sd inlet in the middle of the street. William Street has an inverse
;Crown with a 2% cross slope with the sd inlet grate elevation being lower than the curb flowline. Curb elevation was
;determined to be at 4949.24 ft. multiplied by 2% slope results in an inlet grate elevation of 4949.04 ft. The manhole rim
;was then adjusted back to the curb height elevation by adding 8" to the grate elevation.
K14954      4937.94    11.81      0        0        0
;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2009 - 4946.30) plus 8" curb height.
L14041      4936.6      11.17     0        0        0
L14042      4943.53     3.7       0        0        0
L14051      4944.35     2.95      0        0        0
;MH rim elevation adj. to lowest connecting grate elevation (DI #2303 - 4947.78) plus 8" curb height.
L14052      4941.40     7.23      0        0        0
;MH rim elevation adj. to lowest connecting inlet elevation (DI #2344 - 4949.89) plus 8" curb height.
L14053      4943.06     7.31      0        0        0
;MH rim elevation adj. to existing rim elevation (4951.39) plus 8" curb height.
;There were no connecting inlets shown in the survey file.
L14054      4942.28     9.58      0        0        0
;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2218 - 4948.59) plus 8" curb height.
L14055      4939.88     9.56      0        0        0
L14141      4936.08    12.24      0        0        0
;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2134 - 4947.71) plus 8" curb height.
L14142      4935.24    13.23      0        0        0
;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2156 - 4947.10) plus 8" curb height.
L14143      4935.66    12.35      0        0        0
L14146      4943.06     5.41      0        0        0
;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2210 - 4947.80) plus 8" curb height.
L14151      4939.08     9.82      0        0        0
;MH rim elevation adj. to lowest connecting inlet grate elevation (DI #2180 - 4947.83) plus 8" curb height.
L14152      4937.58    11.05      0        0        0
L14999      4937.3      11.28      0        0        0
L14JB145    4934.73    13.55      0        0        0
```

[OUTFALLS]

```
;
;;Name      Invert      Outfall      Stage/Table      Tide
            Elev.      Type      Time Series      Gate
```

Recommended Improvements.inp

```
;;-----
L14JB2      4952.21    FREE      NO
Unknown     4952      FREE      NO
```

[STORAGE]

```
;;
;;Name      Invert    Max.      Init.      Shape      Shape      Poned      Evap.
            Elev.     Depth     Depth     Curve     Parameters Area      Frac.
;;-----
L14PS1      4926.99    22.67     0          TABULAR    L14PS1      0          0
Park        4941.5     7          0          TABULAR    Park        0          0
SBroadwayPond 4938.42    15.32     0          TABULAR    SB.DepthArea 0          0
SurgePond   4939.96    15         0          TABULAR    SurgePond   0          0
```

[CONDUITS]

```
;;
;;Name      Inlet      Outlet      Length      Manning      Inlet      Outlet      Init.      Maximum
            Node      Node              N            Height     Height     Flow       Flow
;;-----
Commercial_Sag K14941      DI2046      92.157      0.017      10.86      2.56        0          0
E.Cromwell    K14953      K14952      170         0.017      6.31       5.28        0          0
Link-13       DI2024      K14951      18.41       0.013      0          0.35        0          0
Link-14       DI2046      K14944      46.09       0.013      0          0.15        0          0
Link-16       L14054      Park        58.69       0.013      0          0           0          0
Link-17       Park        L14151      407.62      0.013      0          0           0          0
Link-20       SBroadwayPond SurgePond    57.03       0.013      0          0           0          0
N.Commercial  K14942      K14941      234         0.017      12.68      10.86       0          0
N.William     DI2024      K14952      355         0.017      3.02       5.28        0          0
Pacific       K14945      DI2046      268         0.017      11.53      2.56        0          0
Pacific_William K14954      K14951      34          0.017      11.14      3.45        0          0
S.Commercial_A L14142      L14141      330         0.017      12.47      11.57       0          0
S.Commercial_B L14141      L14143      36          0.017      11.57      11.44       0          0
S.William     L14152      L14151      370         0.017      10.25      8.72        0          0
SDP1          SBroadwayPond K14954      410.95811861 0.013      0          0.1         0          0
SDP10         L14143      L14JB145    85.40790915 0.013      0          0.42        0          0
SDP11         K14951      K14952      354.71353104 0.013      0          0.08000000000000001 0          0

SDP12         K14952      L14052      158.63026916 0.013      0          0.4         0          0
SDP13         L14052      L14055      223.09104012 0.013      0          0.5         0          0
SDP14         L14055      L14151      339.09603202 0.013      0          0.37        0          0
SDP15         L14151      L14152      369.53315621 0.013      0          0.85        0          0
SDP16         L14152      L14999      34.22873553 0.013      0          0.77        0          0
SDP17         L14999      L14JB145    260.75662555 0.013      0          0.7         0          0
SDP19         L14055      L14051      183.13      0.013      4.69       0           0          0
```

Recommended Improvements.inp

SDP	Node	Node	Flow (cfs)	Depth (ft)	Velocity (ft/s)	Head (ft)	Loss (ft)	Loss (ft)
SDP2	K14954	K14945	43.12332141	0.013	0	0.0500000000000003	0	0
SDP20	L14053	L14054	199.67810886	0.013	0	0	0	0
SDP21	K14953	L14053	191.14310008	0.013	0	0	0	0
SDP22	L14054	L14055	244.301283	0.013	2.38	4.487	0	0
SDP24	L14042	L14041	19.24659539	0.013	0	6.907	0	0
SDP25	L14051	L14042	180.48	0.01	0	0.6	0	0
SDP26	L14146	L14142	35.18528675	0.013	0	7.778	0	0
SDP27	K14943	K14942	47.70588865	0.013	0	9	0	0
SDP28	L14JB145	L14PS1	53.05839922	0.013	0	6.45	0	0
SDP3	K14945	K14944	267.90742539	0.013	0	0.15	0	0
SDP4	K14944	K14941	92.15714564	0.013	0	0.15	0	0
SDP5	K14941	K14942	233.62246284	0.013	0	0.2	0	0
SDP6	K14942	L14041	392.68031286	0.013	0	0.12	0	0
SDP7	L14041	L14142	349.68993313	0.013	0	0.0999999999999996	0	0
SDP8	L14142	L14141	330.32958193	0.013	0	0.0800000000000001	0	0
SDP9	L14141	L14143	35.81241274	0.013	0	1.22	0	0
W.Garfield_A	L14051	L14042	181	0.017	2.32	2.77	0	0
W.Garfield_B	L14055	L14051	183	0.017	8.71	2.32	0	0
;Initial_invert_4943.53_to_4936.6_switched_direction								
W.Garfield_Junct	L14041	L14042	19	0.017	10.29	2.77	0	0
William_1A	K14952	L14052	158	0.017	5.28	6.38	0	0
William_1B	L14055	L14052	223	0.017	8.71	6.38	0	0
William_Pacific	K14945	K14954	43	0.017	11.53	11.14	0	0

[PUMPS]

;;	Inlet Node	Outlet Node	Pump Curve	Initial Status
;;Name	Node	Node	Curve	Status
;;-----				
PUMP_CT-3500-135_02	L14PS1	L14JB2	PumpStation	OFF

[WEIRS]

;;	Inlet Node	Outlet Node	Type	Crest Height	Disch. Coeff.	Flap Gate	End Coeff.	End Con.
;;Name	Node	Node	Type	Height	Coeff.	Gate	Coeff.	Con.
;;-----								
EmergencySpillway	SBroadwayPond	Unknown	TRANSVERSE	14.32	0.7	NO	0	2.60

[XSECTIONS]

;;Link	Type	Geom1	Geom2	Geom3	Geom4	Barrels	CulvertCode
;;-----							

Recommended Improvements.inp

Commercial_Sag	IRREGULAR	Standard	0	1	1	1	
E.Cromwell	IRREGULAR	Standard	0	1	1	1	
Link-13	CIRCULAR	1.5	0	1	1	1	
Link-14	CIRCULAR	1.5	0	1	1	1	
Link-16	CIRCULAR	2.5	0	1	1	1	
Link-17	CIRCULAR	1.5	0	1	1	1	
Link-20	CIRCULAR	5.0000000000 0		1	1	1	
N.Commercial	IRREGULAR	Standard	0	1	1	1	
N.William	IRREGULAR	Standard	0	1	1	1	
Pacific	IRREGULAR	Standard	0	1	1	1	
Pacific_William	IRREGULAR	Standard	0	1	1	1	
S.Commercial_A	IRREGULAR	Standard	0	1	1	1	
S.Commercial_B	IRREGULAR	Standard	0	1	1	1	
S.William	IRREGULAR	Standard	0	1	1	1	
SDP1	CIRCULAR	2.5	0	1	1	1	
SDP10	CIRCULAR	4	0	1	1	1	
SDP11	CIRCULAR	2	0	1	1	1	1
SDP12	CIRCULAR	2	0	1	1	1	
SDP13	CIRCULAR	2.5	0	1	1	1	
SDP14	CIRCULAR	3	0	1	1	1	
SDP15	CIRCULAR	3	0	1	1	1	
SDP16	CIRCULAR	4	0	1	1	1	
SDP17	CIRCULAR	4	0	1	1	1	
SDP19	CIRCULAR	1	0	1	1	1	
SDP2	CIRCULAR	2.5	0	1	1	1	
SDP20	CIRCULAR	2	0	1	1	1	
SDP21	CIRCULAR	2.0000000000 0		1	1	1	
SDP22	CIRCULAR	1	0	1	1	1	
SDP24	CIRCULAR	2.0000000000 0		1	1	1	
SDP25	CIRCULAR	1	0	1	1	1	
SDP26	CIRCULAR	1.5	0	1	1	1	
SDP27	CIRCULAR	1.5	0	1	1	1	
SDP28	CIRCULAR	4	0	1	1	1	
SDP3	CIRCULAR	2.5	0	1	1	1	
SDP4	CIRCULAR	2.5	0	1	1	1	
SDP5	CIRCULAR	2.5	0	1	1	1	
SDP6	CIRCULAR	2.5	0	1	1	1	
SDP7	CIRCULAR	2.5000000000 0		1	1	1	
SDP8	CIRCULAR	2.5	0	1	1	1	
SDP9	CIRCULAR	4	0	1	1	1	
W.Garfield_A	IRREGULAR	Standard	0	1	1	1	
W.Garfield_B	IRREGULAR	Standard	0	1	1	1	

Recommended Improvements.inp

W.Garfield_Junct	IRREGULAR	Standard	0	1	1	1
William_1A	IRREGULAR	Standard	0	1	1	1
William_1B	IRREGULAR	Standard	0	1	1	1
William_Pacific	IRREGULAR	Standard	0	1	1	1
EmergencySpillway	RECT_OPEN	1	73	1	1	

[TRANSECTS]

;;-----

;Standard roadway section for the project with 2% cross slope, 32' full street section and 8" curb and gutter.

NC	0	0.017							
X1	Standard	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	0.67	0	0	0.1	0.32	16	0	31.9	0.67
								32	

[LOSSES]

;;Link Inlet Outlet Average Flap Gate
;;-----

Link-13	0.5	0.6	0	NO
Link-14	0.5	0.6	0	NO
Link-16	0.025	0.025	0	NO
Link-17	0.025	0.025	0	NO
Link-20	0.5	0.5	0	NO
SDP1	0.025	0.025	0	NO
SDP10	.025	.025	0	NO
SDP11	.025	.025	0	NO
SDP12	.025	.025	0	NO
SDP13	.025	.025	0	NO
SDP14	0.025	0.025	0	NO
SDP15	.025	.025	0	NO
SDP16	.025	.025	0	NO
SDP17	0.025	.025	0	NO
SDP19	0.025	0.025	0	NO
SDP2	0.025	0.025	0	NO
SDP20	.025	.025	0	NO
SDP21	0.025	.025	0	NO
SDP22	.025	.025	0	NO
SDP24	0.025	0.025	0	NO
SDP25	0.025	0.025	0	NO
SDP26	0.025	0.025	0	NO
SDP27	0.025	0.025	0	NO
SDP28	.025	.025	0	NO
SDP3	.025	0.025	0	NO

Recommended Improvements.inp

SDP4	0.025	0.025	0	NO
SDP5	0.025	0.025	0	NO
SDP6	0.025	0.025	0	NO
SDP7	.025	.025	0	NO
SDP8	0.025	.025	0	NO
SDP9	.025	.025	0	NO

[INFLOWS]

;;			Param	Units	Scale	Baseline	Baseline
;;Node	Parameter	Time Series	Type	Factor	Factor	Value	Pattern
;;-----							
DI2024	FLOW	UH-B2	FLOW	1.0	1.0		
DI2046	FLOW	UH-B1	FLOW	1.0	1.0		
K14941	FLOW	UH-B3	FLOW	1.0	1.0		
K14952	FLOW	UH-B4	FLOW	1.0	1.0		
K14953	FLOW	UH-B5	FLOW	1.0	1.0		
L14042	FLOW	UH-B6	FLOW	1.0	1.0		
L14052	FLOW	UH-B7	FLOW	1.0	1.0		
L14053	FLOW	UH-B8	FLOW	1.0	1.0		
L14055	FLOW	UH-B9	FLOW	1.0	1.0		
L14142	FLOW	UH-B10	FLOW	1.0	1.0		
L14143	FLOW	UH-B12	FLOW	1.0	1.0		
L14151	FLOW	UH-B11	FLOW	1.0	1.0		
L14152	FLOW	UH-B13	FLOW	1.0	1.0		
SBroadwayPond	FLOW	S Broadway Pond	FLOW	1.0	1.0		

[CURVES]

;;Name	Type	X-Value	Y-Value
;;-----			
L14PS1	Storage	0	0
L14PS1		25	496

;Conic Reservoir Volume assuming 140 ft x 140 ft footprint w/ 6:1 side slopes.

Park	Storage	0.0	19600.00
Park		0.5	21316.00
Park		1.0	23104.00
Park		1.5	24964.00
Park		2.0	26896.00
Park		2.5	28900.00
Park		3.0	30976.00
Park		3.5	33124.00
Park		4.0	35344.00

Recommended Improvements.inp

Park	4.5	37636.00
Park	5.0	40000.00
Park	5.5	42436.00
Park	6.0	44944.00
Park	6.5	47524.00
Park	7.0	50176.00

SB.DepthArea	Storage	0	0
SB.DepthArea		3.94	21780
SB.DepthArea		4.42	43560
SB.DepthArea		5.19	65340
SB.DepthArea		8.74	87120
SB.DepthArea		14.36	108900
SB.DepthArea		16.54	121968
SB.DepthArea		19.54	121968

SurgePond	Storage	0.0	32400.00
SurgePond		0.5	33856.00
SurgePond		1.0	35344.00
SurgePond		1.5	36864.00
SurgePond		2.0	38416.00
SurgePond		2.5	40000.00
SurgePond		3.0	41616.00
SurgePond		3.5	43264.00
SurgePond		4.0	44944.00
SurgePond		4.5	46656.00
SurgePond		5.0	48400.00
SurgePond		5.5	50176.00
SurgePond		6.0	51984.00
SurgePond		6.5	53824.00
SurgePond		7.0	55696.00
SurgePond		7.5	57600.00
SurgePond		8.0	59536.00
SurgePond		8.5	61504.00
SurgePond		9.0	63504.00
SurgePond		9.5	65536.00
SurgePond		10.0	67600.00
SurgePond		10.5	69696.00
SurgePond		11.0	71824.00
SurgePond		11.5	73984.00
SurgePond		12.0	76176.00
SurgePond		12.5	78400.00

Recommended Improvements.inp

SurgePond	13.0	80656.00
SurgePond	13.5	82944.00
SurgePond	14.0	85264.00
SurgePond	14.5	87616.00
SurgePond	15.0	90000.00

PumpStation	Pump3	26.5	80
PumpStation		28	75
PumpStation		29.5	70
PumpStation		31.5	65
PumpStation		32	60
PumpStation		33	55
PumpStation		33.5	50
PumpStation		35	45
PumpStation		37	40
PumpStation		47	0

[TIMESERIES]

;;Name		Date	Time	Value
;;-----				
;5/6/2016		0:02	38.99	
S Broadway Pond	5/6/2016	0:04	57.38	
S Broadway Pond	5/6/2016	0:05	72.32	
S Broadway Pond	5/6/2016	0:06	91.17	
S Broadway Pond	5/6/2016	0:07	113.22	
S Broadway Pond	5/6/2016	0:08	141.27	
S Broadway Pond	5/6/2016	0:09	183.18	
S Broadway Pond	5/6/2016	0:10	241.75	
S Broadway Pond	5/6/2016	0:11	309.74	
S Broadway Pond	5/6/2016	0:12	354.16	
S Broadway Pond	5/6/2016	0:13	409.71	
S Broadway Pond	5/6/2016	0:14	444.98	
S Broadway Pond	5/6/2016	0:15	477.07	
S Broadway Pond	5/6/2016	0:16	502.79	
S Broadway Pond	5/6/2016	0:17	517.66	
S Broadway Pond	5/6/2016	0:18	527.53	
S Broadway Pond	5/6/2016	0:19	523.01	
S Broadway Pond	5/6/2016	0:20	513.8	
S Broadway Pond	5/6/2016	0:21	503.6	
S Broadway Pond	5/6/2016	0:22	491.45	
S Broadway Pond	5/6/2016	0:23	483.62	
S Broadway Pond	5/6/2016	0:24	475.38	

Recommended Improvements.inp

S Broadway Pond	5/6/2016	0:25	470.44
S Broadway Pond	5/6/2016	0:26	466.98
S Broadway Pond	5/6/2016	0:27	464.4
S Broadway Pond	5/6/2016	0:28	462.93
S Broadway Pond	5/6/2016	0:29	461.78
S Broadway Pond	5/6/2016	0:30	460.75
S Broadway Pond	5/6/2016	0:31	460.69
S Broadway Pond	5/6/2016	0:32	458.8
S Broadway Pond	5/6/2016	0:33	454.5
S Broadway Pond	5/6/2016	0:34	447.13
S Broadway Pond	5/6/2016	0:35	437.94
S Broadway Pond	5/6/2016	0:36	429.75
S Broadway Pond	5/6/2016	0:37	422.16
S Broadway Pond	5/6/2016	0:38	415.24
S Broadway Pond	5/6/2016	0:39	408.53
S Broadway Pond	5/6/2016	0:40	401.43
S Broadway Pond	5/6/2016	0:41	395.71
S Broadway Pond	5/6/2016	0:42	390.7
S Broadway Pond	5/6/2016	0:43	386
S Broadway Pond	5/6/2016	0:44	382
S Broadway Pond	5/6/2016	0:45	377.89
S Broadway Pond	5/6/2016	0:46	373.79
S Broadway Pond	5/6/2016	0:47	368.66
S Broadway Pond	5/6/2016	0:48	361.99
S Broadway Pond	5/6/2016	0:49	353.47
S Broadway Pond	5/6/2016	0:50	344.71
S Broadway Pond	5/6/2016	0:51	335.89
S Broadway Pond	5/6/2016	0:52	327.2
S Broadway Pond	5/6/2016	0:53	318.7
S Broadway Pond	5/6/2016	0:54	310.5
S Broadway Pond	5/6/2016	0:55	303.05
S Broadway Pond	5/6/2016	0:56	295.96
S Broadway Pond	5/6/2016	0:57	289.14
S Broadway Pond	5/6/2016	0:58	282.65
S Broadway Pond	5/6/2016	0:59	276.38
S Broadway Pond	5/6/2016	1:00	271.93
S Broadway Pond	5/6/2016	1:01	265.74
S Broadway Pond	5/6/2016	1:02	258.49
S Broadway Pond	5/6/2016	1:03	222.16
S Broadway Pond	5/6/2016	1:04	216.95
S Broadway Pond	5/6/2016	1:05	212.58
S Broadway Pond	5/6/2016	1:06	207.4

Recommended Improvements.inp

S Broadway Pond	5/6/2016	1:07	207.01
S Broadway Pond	5/6/2016	1:08	207.99
S Broadway Pond	5/6/2016	1:09	190.69
S Broadway Pond	5/6/2016	1:10	183.29
S Broadway Pond	5/6/2016	1:11	188.34
S Broadway Pond	5/6/2016	1:12	171.41
S Broadway Pond	5/6/2016	1:13	170.37
S Broadway Pond	5/6/2016	1:14	174.06
S Broadway Pond	5/6/2016	1:15	170.82
S Broadway Pond	5/6/2016	1:16	161.48
S Broadway Pond	5/6/2016	1:17	158.8
S Broadway Pond	5/6/2016	1:18	152.75
S Broadway Pond	5/6/2016	1:19	146.2
S Broadway Pond	5/6/2016	1:20	142.82
S Broadway Pond	5/6/2016	1:21	137.48
S Broadway Pond	5/6/2016	1:22	130.47
S Broadway Pond	5/6/2016	1:23	122.64
S Broadway Pond	5/6/2016	1:24	114.13
S Broadway Pond	5/6/2016	1:25	102.43
S Broadway Pond	5/6/2016	1:26	95.35
S Broadway Pond	5/6/2016	1:27	89.27
S Broadway Pond	5/6/2016	1:28	83.67
S Broadway Pond	5/6/2016	1:29	78.4
S Broadway Pond	5/6/2016	1:30	74.18
S Broadway Pond	5/6/2016	1:31	71.26
S Broadway Pond	5/6/2016	1:32	68.9
S Broadway Pond	5/6/2016	1:33	66.7
S Broadway Pond	5/6/2016	1:34	64.78
S Broadway Pond	5/6/2016	1:35	61.98
S Broadway Pond	5/6/2016	1:36	60.49
S Broadway Pond	5/6/2016	1:37	59.49
S Broadway Pond	5/6/2016	1:38	58.59
S Broadway Pond	5/6/2016	1:39	57.53
S Broadway Pond	5/6/2016	1:40	56.47
S Broadway Pond	5/6/2016	1:41	55.47
S Broadway Pond	5/6/2016	1:42	54.53
S Broadway Pond	5/6/2016	1:43	53.63
S Broadway Pond	5/6/2016	1:44	52.7
S Broadway Pond	5/6/2016	1:45	51.8
S Broadway Pond	5/6/2016	1:46	50.96
S Broadway Pond	5/6/2016	1:47	50.17
S Broadway Pond	5/6/2016	1:48	49.37

Recommended Improvements.inp

S Broadway Pond	5/6/2016	1:49	48.57
S Broadway Pond	5/6/2016	1:50	47.77
S Broadway Pond	5/6/2016	1:51	46.51
S Broadway Pond	5/6/2016	1:52	45.61
S Broadway Pond	5/6/2016	1:53	46.17
S Broadway Pond	5/6/2016	1:54	44.27
S Broadway Pond	5/6/2016	1:55	44.39
S Broadway Pond	5/6/2016	1:56	42.13
S Broadway Pond	5/6/2016	1:57	42.4
S Broadway Pond	5/6/2016	1:58	42.27
S Broadway Pond	5/6/2016	1:59	41.29
S Broadway Pond	5/6/2016	2:00	40.41
S Broadway Pond	5/6/2016	2:01	39.84
S Broadway Pond	5/6/2016	2:02	37.56
S Broadway Pond	5/6/2016	2:03	36.9
S Broadway Pond	5/6/2016	2:04	36.31
S Broadway Pond	5/6/2016	2:05	35.7
S Broadway Pond	5/6/2016	2:06	35.14
S Broadway Pond	5/6/2016	2:07	34.57
S Broadway Pond	5/6/2016	2:08	34.03
S Broadway Pond	5/6/2016	2:09	33.48
S Broadway Pond	5/6/2016	2:10	32.97
S Broadway Pond	5/6/2016	2:11	32.46
S Broadway Pond	5/6/2016	2:12	31.98
S Broadway Pond	5/6/2016	2:13	31.51
S Broadway Pond	5/6/2016	2:14	31.07
S Broadway Pond	5/6/2016	2:15	30.64
S Broadway Pond	5/6/2016	2:16	30.23
S Broadway Pond	5/6/2016	2:17	29.83
S Broadway Pond	5/6/2016	2:18	29.44
S Broadway Pond	5/6/2016	2:19	29.06
S Broadway Pond	5/6/2016	2:20	28.7
S Broadway Pond	5/6/2016	2:21	28.35
S Broadway Pond	5/6/2016	2:22	28.02
S Broadway Pond	5/6/2016	2:23	27.68
S Broadway Pond	5/6/2016	2:24	27.37
S Broadway Pond	5/6/2016	2:25	27.07
S Broadway Pond	5/6/2016	2:26	26.78
S Broadway Pond	5/6/2016	2:27	26.5
S Broadway Pond	5/6/2016	2:28	26.22
S Broadway Pond	5/6/2016	2:29	25.97
S Broadway Pond	5/6/2016	2:30	25.7

Recommended Improvements.inp

S Broadway Pond	5/6/2016	2:31	25.46
S Broadway Pond	5/6/2016	2:32	25.22
S Broadway Pond	5/6/2016	2:33	24.98
S Broadway Pond	5/6/2016	2:34	24.79
S Broadway Pond	5/6/2016	2:35	24.53
S Broadway Pond	5/6/2016	2:36	24.4
S Broadway Pond	5/6/2016	2:37	24.14
S Broadway Pond	5/6/2016	2:38	24.02
S Broadway Pond	5/6/2016	2:39	23.7
S Broadway Pond	5/6/2016	2:40	23.62
S Broadway Pond	5/6/2016	2:41	23.43
S Broadway Pond	5/6/2016	2:42	23.36
S Broadway Pond	5/6/2016	2:43	23.1
S Broadway Pond	5/6/2016	2:44	22.99
S Broadway Pond	5/6/2016	2:45	22.82
S Broadway Pond	5/6/2016	2:46	22.74
S Broadway Pond	5/6/2016	2:47	22.57
S Broadway Pond	5/6/2016	2:48	22.44
S Broadway Pond	5/6/2016	2:49	22.32
S Broadway Pond	5/6/2016	2:50	22.2
S Broadway Pond	5/6/2016	2:51	22.14
S Broadway Pond	5/6/2016	2:52	22.04
S Broadway Pond	5/6/2016	2:53	21.91
S Broadway Pond	5/6/2016	2:54	21.82
S Broadway Pond	5/6/2016	2:55	21.72
S Broadway Pond	5/6/2016	2:56	21.66
S Broadway Pond	5/6/2016	2:57	21.53
S Broadway Pond	5/6/2016	2:58	21.48
S Broadway Pond	5/6/2016	2:59	21.35
S Broadway Pond	5/6/2016	3:00	21.29
S Broadway Pond	5/6/2016	3:01	21.21
S Broadway Pond	5/6/2016	3:02	21.16
S Broadway Pond	5/6/2016	3:03	21.06
S Broadway Pond	5/6/2016	3:04	21.29
S Broadway Pond	5/6/2016	3:05	21.54
S Broadway Pond	5/6/2016	3:06	21.88
S Broadway Pond	5/6/2016	3:07	21.88
S Broadway Pond	5/6/2016	3:08	21.7
S Broadway Pond	5/6/2016	3:09	21.74
S Broadway Pond	5/6/2016	3:10	21.64
S Broadway Pond	5/6/2016	3:11	21.79
S Broadway Pond	5/6/2016	3:12	21.51

Recommended Improvements.inp

S Broadway Pond	5/6/2016	3:13	21.33
S Broadway Pond	5/6/2016	3:14	21.13
S Broadway Pond	5/6/2016	3:15	21.1
S Broadway Pond	5/6/2016	3:16	21.19
S Broadway Pond	5/6/2016	3:17	21.21
S Broadway Pond	5/6/2016	3:18	21.14
S Broadway Pond	5/6/2016	3:19	21.08
S Broadway Pond	5/6/2016	3:20	21.06
S Broadway Pond	5/6/2016	3:21	21.03
S Broadway Pond	5/6/2016	3:22	21.06
S Broadway Pond	5/6/2016	3:23	20.94
S Broadway Pond	5/6/2016	3:24	20.82
S Broadway Pond	5/6/2016	3:25	20.72
S Broadway Pond	5/6/2016	3:26	20.63
S Broadway Pond	5/6/2016	3:27	20.62
S Broadway Pond	5/6/2016	3:28	20.62
S Broadway Pond	5/6/2016	3:29	20.54
S Broadway Pond	5/6/2016	3:30	20.47
S Broadway Pond	5/6/2016	3:31	20.37
S Broadway Pond	5/6/2016	3:32	20.32
S Broadway Pond	5/6/2016	3:33	20.27
S Broadway Pond	5/6/2016	3:34	20.16
S Broadway Pond	5/6/2016	3:35	20.1
S Broadway Pond	5/6/2016	3:36	20
S Broadway Pond	5/6/2016	3:37	19.95
S Broadway Pond	5/6/2016	3:38	19.89
S Broadway Pond	5/6/2016	3:39	19.83
S Broadway Pond	5/6/2016	3:40	19.79
S Broadway Pond	5/6/2016	3:41	19.72
S Broadway Pond	5/6/2016	3:42	19.66
S Broadway Pond	5/6/2016	3:43	19.6
S Broadway Pond	5/6/2016	3:44	19.55
S Broadway Pond	5/6/2016	3:45	19.51
S Broadway Pond	5/6/2016	3:46	19.44
S Broadway Pond	5/6/2016	3:47	19.37
S Broadway Pond	5/6/2016	3:48	19.31
S Broadway Pond	5/6/2016	3:49	19.25
S Broadway Pond	5/6/2016	3:50	19.23
S Broadway Pond	5/6/2016	3:51	19.16
S Broadway Pond	5/6/2016	3:52	19.13
S Broadway Pond	5/6/2016	3:53	19.06
S Broadway Pond	5/6/2016	3:54	19.01

S Broadway Pond	5/6/2016	3:55	18.93
S Broadway Pond	5/6/2016	3:56	18.82
S Broadway Pond	5/6/2016	3:57	18.79
S Broadway Pond	5/6/2016	3:58	18.75
S Broadway Pond	5/6/2016	3:59	18.76
S Broadway Pond	5/6/2016	4:00	18.73
S Broadway Pond	5/6/2016	4:01	18.71
S Broadway Pond	5/6/2016	4:02	18.68
S Broadway Pond	5/6/2016	4:03	18.65
S Broadway Pond	5/6/2016	4:04	18.6
S Broadway Pond	5/6/2016	4:05	18.55
S Broadway Pond	5/6/2016	4:06	18.5
S Broadway Pond	5/6/2016	4:07	18.47
S Broadway Pond	5/6/2016	4:08	18.45
S Broadway Pond	5/6/2016	4:09	18.41
S Broadway Pond	5/6/2016	4:10	18.36
S Broadway Pond	5/6/2016	4:11	18.3
S Broadway Pond	5/6/2016	4:12	18.25
S Broadway Pond	5/6/2016	4:13	18.23
S Broadway Pond	5/6/2016	4:14	18.2
S Broadway Pond	5/6/2016	4:15	18.19
S Broadway Pond	5/6/2016	4:16	18.16
S Broadway Pond	5/6/2016	4:17	18.14
S Broadway Pond	5/6/2016	4:18	18.1
S Broadway Pond	5/6/2016	4:19	18.07
S Broadway Pond	5/6/2016	4:20	18.04
S Broadway Pond	5/6/2016	4:21	18.01
S Broadway Pond	5/6/2016	4:22	17.99
S Broadway Pond	5/6/2016	4:23	17.96
S Broadway Pond	5/6/2016	4:24	17.94
S Broadway Pond	5/6/2016	4:25	17.91
S Broadway Pond	5/6/2016	4:26	17.89
S Broadway Pond	5/6/2016	4:27	17.86
S Broadway Pond	5/6/2016	4:28	17.85
S Broadway Pond	5/6/2016	4:29	17.82
S Broadway Pond	5/6/2016	4:30	17.8
S Broadway Pond	5/6/2016	4:31	17.77
S Broadway Pond	5/6/2016	4:32	17.75
S Broadway Pond	5/6/2016	4:33	17.73
S Broadway Pond	5/6/2016	4:34	17.72
S Broadway Pond	5/6/2016	4:35	17.7
S Broadway Pond	5/6/2016	4:36	17.68

Recommended Improvements.inp

S Broadway Pond	5/6/2016	4:37	17.66
S Broadway Pond	5/6/2016	4:38	17.64
S Broadway Pond	5/6/2016	4:39	17.62
S Broadway Pond	5/6/2016	4:40	17.6
S Broadway Pond	5/6/2016	4:41	17.59
S Broadway Pond	5/6/2016	4:42	17.57
S Broadway Pond	5/6/2016	4:43	17.56
S Broadway Pond	5/6/2016	4:44	17.54
S Broadway Pond	5/6/2016	4:45	17.53
S Broadway Pond	5/6/2016	4:46	17.51
S Broadway Pond	5/6/2016	4:47	17.49
S Broadway Pond	5/6/2016	4:48	17.48
S Broadway Pond	5/6/2016	4:49	17.47
S Broadway Pond	5/6/2016	4:50	17.46
S Broadway Pond	5/6/2016	4:51	17.44
S Broadway Pond	5/6/2016	4:52	17.42
S Broadway Pond	5/6/2016	4:53	17.41
S Broadway Pond	5/6/2016	4:54	17.39
S Broadway Pond	5/6/2016	4:55	17.38
S Broadway Pond	5/6/2016	4:56	17.36
S Broadway Pond	5/6/2016	4:57	17.35
S Broadway Pond	5/6/2016	4:58	17.34
S Broadway Pond	5/6/2016	4:59	17.31
S Broadway Pond	5/6/2016	5:00	17.27
S Broadway Pond	5/6/2016	5:01	17.22
S Broadway Pond	5/6/2016	5:02	17.19
S Broadway Pond	5/6/2016	5:03	17.18
S Broadway Pond	5/6/2016	5:04	17.18
S Broadway Pond	5/6/2016	5:05	17.19
S Broadway Pond	5/6/2016	5:06	17.19
S Broadway Pond	5/6/2016	5:07	17.17
S Broadway Pond	5/6/2016	5:08	17.15
S Broadway Pond	5/6/2016	5:09	17.12
S Broadway Pond	5/6/2016	5:10	17.1
S Broadway Pond	5/6/2016	5:11	17.07
S Broadway Pond	5/6/2016	5:12	17.07
S Broadway Pond	5/6/2016	5:13	17.06
S Broadway Pond	5/6/2016	5:14	17.05
S Broadway Pond	5/6/2016	5:15	17.04
S Broadway Pond	5/6/2016	5:16	17.03
S Broadway Pond	5/6/2016	5:17	17.01
S Broadway Pond	5/6/2016	5:18	16.99

Recommended Improvements.inp

S Broadway Pond	5/6/2016	5:19	16.98
S Broadway Pond	5/6/2016	5:20	16.97
S Broadway Pond	5/6/2016	5:21	16.97
S Broadway Pond	5/6/2016	5:22	16.96
S Broadway Pond	5/6/2016	5:23	16.95
S Broadway Pond	5/6/2016	5:24	16.94
S Broadway Pond	5/6/2016	5:25	16.93
S Broadway Pond	5/6/2016	5:26	16.91
S Broadway Pond	5/6/2016	5:27	16.9
S Broadway Pond	5/6/2016	5:28	16.89
S Broadway Pond	5/6/2016	5:29	16.89
S Broadway Pond	5/6/2016	5:30	16.88
S Broadway Pond	5/6/2016	5:31	16.87
S Broadway Pond	5/6/2016	5:32	16.87
S Broadway Pond	5/6/2016	5:33	16.85
S Broadway Pond	5/6/2016	5:34	16.84
S Broadway Pond	5/6/2016	5:35	16.83
S Broadway Pond	5/6/2016	5:36	16.82
S Broadway Pond	5/6/2016	5:37	16.82
S Broadway Pond	5/6/2016	5:38	16.81
S Broadway Pond	5/6/2016	5:39	16.8
S Broadway Pond	5/6/2016	5:40	16.79
S Broadway Pond	5/6/2016	5:41	16.78
S Broadway Pond	5/6/2016	5:42	16.78
S Broadway Pond	5/6/2016	5:43	16.77
S Broadway Pond	5/6/2016	5:44	16.76
S Broadway Pond	5/6/2016	5:45	16.75
S Broadway Pond	5/6/2016	5:46	16.74
S Broadway Pond	5/6/2016	5:47	16.74
S Broadway Pond	5/6/2016	5:48	16.73
S Broadway Pond	5/6/2016	5:49	16.72
S Broadway Pond	5/6/2016	5:50	16.72
S Broadway Pond	5/6/2016	5:51	16.71
S Broadway Pond	5/6/2016	5:52	16.7
S Broadway Pond	5/6/2016	5:53	16.69
S Broadway Pond	5/6/2016	5:54	16.68
S Broadway Pond	5/6/2016	5:55	16.68
S Broadway Pond	5/6/2016	5:56	16.67
S Broadway Pond	5/6/2016	5:57	16.66
S Broadway Pond	5/6/2016	5:58	16.65
S Broadway Pond	5/6/2016	5:59	16.65
S Broadway Pond	5/6/2016	6:00	16.64

S Broadway Pond	5/6/2016	6:01	16.63
S Broadway Pond	5/6/2016	6:02	16.62
S Broadway Pond	5/6/2016	6:03	16.6
S Broadway Pond	5/6/2016	6:04	16.52
S Broadway Pond	5/6/2016	6:05	16.46
S Broadway Pond	5/6/2016	6:06	16.46
S Broadway Pond	5/6/2016	6:07	16.5
S Broadway Pond	5/6/2016	6:08	16.54
S Broadway Pond	5/6/2016	6:09	16.54
S Broadway Pond	5/6/2016	6:10	16.52
S Broadway Pond	5/6/2016	6:11	16.48
S Broadway Pond	5/6/2016	6:12	16.47
S Broadway Pond	5/6/2016	6:13	16.46
S Broadway Pond	5/6/2016	6:14	16.47
S Broadway Pond	5/6/2016	6:15	16.48
S Broadway Pond	5/6/2016	6:16	16.47
S Broadway Pond	5/6/2016	6:17	16.45
S Broadway Pond	5/6/2016	6:18	16.43
S Broadway Pond	5/6/2016	6:19	16.4
S Broadway Pond	5/6/2016	6:20	16.38
S Broadway Pond	5/6/2016	6:21	16.35
S Broadway Pond	5/6/2016	6:22	16.31
S Broadway Pond	5/6/2016	6:23	16.26
S Broadway Pond	5/6/2016	6:24	16.2
S Broadway Pond	5/6/2016	6:25	16.14
S Broadway Pond	5/6/2016	6:26	16.09
S Broadway Pond	5/6/2016	6:27	16.04
S Broadway Pond	5/6/2016	6:28	15.98
S Broadway Pond	5/6/2016	6:29	15.92
S Broadway Pond	5/6/2016	6:30	15.84
S Broadway Pond	5/6/2016	6:31	15.75
S Broadway Pond	5/6/2016	6:32	15.65
S Broadway Pond	5/6/2016	6:33	15.55
S Broadway Pond	5/6/2016	6:34	15.46
S Broadway Pond	5/6/2016	6:35	15.37
S Broadway Pond	5/6/2016	6:36	15.28
S Broadway Pond	5/6/2016	6:37	15.18
S Broadway Pond	5/6/2016	6:38	15.09
S Broadway Pond	5/6/2016	6:39	15
S Broadway Pond	5/6/2016	6:40	14.9
S Broadway Pond	5/6/2016	6:41	14.81
S Broadway Pond	5/6/2016	6:42	14.72

Recommended Improvements.inp

S Broadway Pond	5/6/2016	6:43	14.63
S Broadway Pond	5/6/2016	6:44	14.54
S Broadway Pond	5/6/2016	6:45	14.46
S Broadway Pond	5/6/2016	6:46	14.38
S Broadway Pond	5/6/2016	6:47	14.3
S Broadway Pond	5/6/2016	6:48	14.22
S Broadway Pond	5/6/2016	6:49	14.13
S Broadway Pond	5/6/2016	6:50	14.05
S Broadway Pond	5/6/2016	6:51	13.97
S Broadway Pond	5/6/2016	6:52	13.9
S Broadway Pond	5/6/2016	6:53	13.82
S Broadway Pond	5/6/2016	6:54	13.74
S Broadway Pond	5/6/2016	6:55	13.66
S Broadway Pond	5/6/2016	6:56	13.51
S Broadway Pond	5/6/2016	6:57	13.39
S Broadway Pond	5/6/2016	6:58	13.35
S Broadway Pond	5/6/2016	6:59	13.32
S Broadway Pond	5/6/2016	7:00	13.32
S Broadway Pond	5/6/2016	7:01	12.96
S Broadway Pond	5/6/2016	7:02	13.08
S Broadway Pond	5/6/2016	7:03	12.88
S Broadway Pond	5/6/2016	7:04	12.76
S Broadway Pond	5/6/2016	7:05	12.96
S Broadway Pond	5/6/2016	7:06	12.59
S Broadway Pond	5/6/2016	7:07	12.78
S Broadway Pond	5/6/2016	7:08	12.55
S Broadway Pond	5/6/2016	7:09	12.52
S Broadway Pond	5/6/2016	7:10	12.71
S Broadway Pond	5/6/2016	7:11	12.3
S Broadway Pond	5/6/2016	7:12	12.5
S Broadway Pond	5/6/2016	7:13	12.34
S Broadway Pond	5/6/2016	7:14	12.32
S Broadway Pond	5/6/2016	7:15	12.34
S Broadway Pond	5/6/2016	7:16	12.11
S Broadway Pond	5/6/2016	7:17	12.31
S Broadway Pond	5/6/2016	7:18	12.02
S Broadway Pond	5/6/2016	7:19	12.15
S Broadway Pond	5/6/2016	7:20	12.03
S Broadway Pond	5/6/2016	7:21	12.03
S Broadway Pond	5/6/2016	7:22	11.92
S Broadway Pond	5/6/2016	7:23	11.92
S Broadway Pond	5/6/2016	7:24	11.97

Recommended Improvements.inp

S Broadway Pond	5/6/2016	7:25	11.75
S Broadway Pond	5/6/2016	7:26	11.88
S Broadway Pond	5/6/2016	7:27	11.7
S Broadway Pond	5/6/2016	7:28	11.84
S Broadway Pond	5/6/2016	7:29	11.6
S Broadway Pond	5/6/2016	7:30	11.72
S Broadway Pond	5/6/2016	7:31	11.58
S Broadway Pond	5/6/2016	7:32	11.65
S Broadway Pond	5/6/2016	7:33	11.51
S Broadway Pond	5/6/2016	7:34	11.58
S Broadway Pond	5/6/2016	7:35	11.5
S Broadway Pond	5/6/2016	7:36	11.45
S Broadway Pond	5/6/2016	7:37	11.46
S Broadway Pond	5/6/2016	7:38	11.32
S Broadway Pond	5/6/2016	7:39	11.49
S Broadway Pond	5/6/2016	7:40	11.25
S Broadway Pond	5/6/2016	7:41	11.42
S Broadway Pond	5/6/2016	7:42	11.21
S Broadway Pond	5/6/2016	7:43	11.35
S Broadway Pond	5/6/2016	7:44	11.18
S Broadway Pond	5/6/2016	7:45	11.26
S Broadway Pond	5/6/2016	7:46	11.17
S Broadway Pond	5/6/2016	7:47	11.19
S Broadway Pond	5/6/2016	7:48	11.15
S Broadway Pond	5/6/2016	7:49	11.07
S Broadway Pond	5/6/2016	7:50	11.2
S Broadway Pond	5/6/2016	7:51	11.19
S Broadway Pond	5/6/2016	7:52	11.18
S Broadway Pond	5/6/2016	7:53	11.17
S Broadway Pond	5/6/2016	7:54	11.16
S Broadway Pond	5/6/2016	7:55	11.15
S Broadway Pond	5/6/2016	7:56	11.14
S Broadway Pond	5/6/2016	7:57	11.13
S Broadway Pond	5/6/2016	7:58	11.12
S Broadway Pond	5/6/2016	7:59	11.11
S Broadway Pond	5/6/2016	8:00	11.10
S Broadway Pond	5/6/2016	8:01	11.09
S Broadway Pond	5/6/2016	8:02	11.08
S Broadway Pond	5/6/2016	8:03	11.07
S Broadway Pond	5/6/2016	8:04	11.06
S Broadway Pond	5/6/2016	8:05	11.05
S Broadway Pond	5/6/2016	8:06	11.04

Recommended Improvements.inp

S Broadway Pond	5/6/2016	8:07	11.03
S Broadway Pond	5/6/2016	8:08	11.02
S Broadway Pond	5/6/2016	8:09	11.00
S Broadway Pond	5/6/2016	8:10	10.99
S Broadway Pond	5/6/2016	8:11	10.98
S Broadway Pond	5/6/2016	8:12	10.97
S Broadway Pond	5/6/2016	8:13	10.96
S Broadway Pond	5/6/2016	8:14	10.95
S Broadway Pond	5/6/2016	8:15	10.94
S Broadway Pond	5/6/2016	8:16	10.93
S Broadway Pond	5/6/2016	8:17	10.92
S Broadway Pond	5/6/2016	8:18	10.91
S Broadway Pond	5/6/2016	8:19	10.90
S Broadway Pond	5/6/2016	8:20	10.89
S Broadway Pond	5/6/2016	8:21	10.88
S Broadway Pond	5/6/2016	8:22	10.87
S Broadway Pond	5/6/2016	8:23	10.86
S Broadway Pond	5/6/2016	8:24	10.85
S Broadway Pond	5/6/2016	8:25	10.84
S Broadway Pond	5/6/2016	8:26	10.83
S Broadway Pond	5/6/2016	8:27	10.82
S Broadway Pond	5/6/2016	8:28	10.81
S Broadway Pond	5/6/2016	8:29	10.80
S Broadway Pond	5/6/2016	8:30	10.79
S Broadway Pond	5/6/2016	8:31	10.78
S Broadway Pond	5/6/2016	8:32	10.77
S Broadway Pond	5/6/2016	8:33	10.76
S Broadway Pond	5/6/2016	8:34	10.75
S Broadway Pond	5/6/2016	8:35	10.74
S Broadway Pond	5/6/2016	8:36	10.73
S Broadway Pond	5/6/2016	8:37	10.72
S Broadway Pond	5/6/2016	8:38	10.71
S Broadway Pond	5/6/2016	8:39	10.70
S Broadway Pond	5/6/2016	8:40	10.69
S Broadway Pond	5/6/2016	8:41	10.68
S Broadway Pond	5/6/2016	8:42	10.67
S Broadway Pond	5/6/2016	8:43	10.66
S Broadway Pond	5/6/2016	8:44	10.65
S Broadway Pond	5/6/2016	8:45	10.64
S Broadway Pond	5/6/2016	8:46	10.63
S Broadway Pond	5/6/2016	8:47	10.61
S Broadway Pond	5/6/2016	8:48	10.60

Recommended Improvements.inp

S Broadway Pond	5/6/2016	8:49	10.59
S Broadway Pond	5/6/2016	8:50	10.58
S Broadway Pond	5/6/2016	8:51	10.57
S Broadway Pond	5/6/2016	8:52	10.56
S Broadway Pond	5/6/2016	8:53	10.55
S Broadway Pond	5/6/2016	8:54	10.54
S Broadway Pond	5/6/2016	8:55	10.53
S Broadway Pond	5/6/2016	8:56	10.52
S Broadway Pond	5/6/2016	8:57	10.51
S Broadway Pond	5/6/2016	8:58	10.50
S Broadway Pond	5/6/2016	8:59	10.49
S Broadway Pond	5/6/2016	9:00	10.48
S Broadway Pond	5/6/2016	9:01	10.47
S Broadway Pond	5/6/2016	9:02	10.46
S Broadway Pond	5/6/2016	9:03	10.45
S Broadway Pond	5/6/2016	9:04	10.44
S Broadway Pond	5/6/2016	9:05	10.43
S Broadway Pond	5/6/2016	9:06	10.42
S Broadway Pond	5/6/2016	9:07	10.41
S Broadway Pond	5/6/2016	9:08	10.40
S Broadway Pond	5/6/2016	9:09	10.39
S Broadway Pond	5/6/2016	9:10	10.38
S Broadway Pond	5/6/2016	9:11	10.37
S Broadway Pond	5/6/2016	9:12	10.36
S Broadway Pond	5/6/2016	9:13	10.35
S Broadway Pond	5/6/2016	9:14	10.34
S Broadway Pond	5/6/2016	9:15	10.33
S Broadway Pond	5/6/2016	9:16	10.32
S Broadway Pond	5/6/2016	9:17	10.31
S Broadway Pond	5/6/2016	9:18	10.30
S Broadway Pond	5/6/2016	9:19	10.29
S Broadway Pond	5/6/2016	9:20	10.28
S Broadway Pond	5/6/2016	9:21	10.27
S Broadway Pond	5/6/2016	9:22	10.26
S Broadway Pond	5/6/2016	9:23	10.25
S Broadway Pond	5/6/2016	9:24	10.23
S Broadway Pond	5/6/2016	9:25	10.22
S Broadway Pond	5/6/2016	9:26	10.21
S Broadway Pond	5/6/2016	9:27	10.20
S Broadway Pond	5/6/2016	9:28	10.19
S Broadway Pond	5/6/2016	9:29	10.18
S Broadway Pond	5/6/2016	9:30	10.17

Recommended Improvements.inp

S Broadway Pond	5/6/2016	9:31	10.16
S Broadway Pond	5/6/2016	9:32	10.15
S Broadway Pond	5/6/2016	9:33	10.14
S Broadway Pond	5/6/2016	9:34	10.13
S Broadway Pond	5/6/2016	9:35	10.12
S Broadway Pond	5/6/2016	9:36	10.11
S Broadway Pond	5/6/2016	9:37	10.10
S Broadway Pond	5/6/2016	9:38	10.09
S Broadway Pond	5/6/2016	9:39	10.08
S Broadway Pond	5/6/2016	9:40	10.07
S Broadway Pond	5/6/2016	9:41	10.06
S Broadway Pond	5/6/2016	9:42	10.05
S Broadway Pond	5/6/2016	9:43	10.04
S Broadway Pond	5/6/2016	9:44	10.03
S Broadway Pond	5/6/2016	9:45	10.02
S Broadway Pond	5/6/2016	9:46	10.01
S Broadway Pond	5/6/2016	9:47	10.00
S Broadway Pond	5/6/2016	9:48	9.99
S Broadway Pond	5/6/2016	9:49	9.98
S Broadway Pond	5/6/2016	9:50	9.97
S Broadway Pond	5/6/2016	9:51	9.96
S Broadway Pond	5/6/2016	9:52	9.95
S Broadway Pond	5/6/2016	9:53	9.94
S Broadway Pond	5/6/2016	9:54	9.93
S Broadway Pond	5/6/2016	9:55	9.92
S Broadway Pond	5/6/2016	9:56	9.91
S Broadway Pond	5/6/2016	9:57	9.90
S Broadway Pond	5/6/2016	9:58	9.89
S Broadway Pond	5/6/2016	9:59	9.88
S Broadway Pond	5/6/2016	10:00	9.87
S Broadway Pond	5/6/2016	10:01	9.85
S Broadway Pond	5/6/2016	10:02	9.84
S Broadway Pond	5/6/2016	10:03	9.83
S Broadway Pond	5/6/2016	10:04	9.82
S Broadway Pond	5/6/2016	10:05	9.81
S Broadway Pond	5/6/2016	10:06	9.80
S Broadway Pond	5/6/2016	10:07	9.79
S Broadway Pond	5/6/2016	10:08	9.78
S Broadway Pond	5/6/2016	10:09	9.77
S Broadway Pond	5/6/2016	10:10	9.76
S Broadway Pond	5/6/2016	10:11	9.75
S Broadway Pond	5/6/2016	10:12	9.74

Recommended Improvements.inp

S Broadway Pond	5/6/2016	10:13	9.73
S Broadway Pond	5/6/2016	10:14	9.72
S Broadway Pond	5/6/2016	10:15	9.71
S Broadway Pond	5/6/2016	10:16	9.70
S Broadway Pond	5/6/2016	10:17	9.69
S Broadway Pond	5/6/2016	10:18	9.68
S Broadway Pond	5/6/2016	10:19	9.67
S Broadway Pond	5/6/2016	10:20	9.66
S Broadway Pond	5/6/2016	10:21	9.65
S Broadway Pond	5/6/2016	10:22	9.64
S Broadway Pond	5/6/2016	10:23	9.63
S Broadway Pond	5/6/2016	10:24	9.62
S Broadway Pond	5/6/2016	10:25	9.61
S Broadway Pond	5/6/2016	10:26	9.60
S Broadway Pond	5/6/2016	10:27	9.59
S Broadway Pond	5/6/2016	10:28	9.58
S Broadway Pond	5/6/2016	10:29	9.57
S Broadway Pond	5/6/2016	10:30	9.56
S Broadway Pond	5/6/2016	10:31	9.55
S Broadway Pond	5/6/2016	10:32	9.54
S Broadway Pond	5/6/2016	10:33	9.53
S Broadway Pond	5/6/2016	10:34	9.52
S Broadway Pond	5/6/2016	10:35	9.51
S Broadway Pond	5/6/2016	10:36	9.50
S Broadway Pond	5/6/2016	10:37	9.49
S Broadway Pond	5/6/2016	10:38	9.48
S Broadway Pond	5/6/2016	10:39	9.46
S Broadway Pond	5/6/2016	10:40	9.45
S Broadway Pond	5/6/2016	10:41	9.44
S Broadway Pond	5/6/2016	10:42	9.43
S Broadway Pond	5/6/2016	10:43	9.42
S Broadway Pond	5/6/2016	10:44	9.41
S Broadway Pond	5/6/2016	10:45	9.40
S Broadway Pond	5/6/2016	10:46	9.39
S Broadway Pond	5/6/2016	10:47	9.38
S Broadway Pond	5/6/2016	10:48	9.37
S Broadway Pond	5/6/2016	10:49	9.36
S Broadway Pond	5/6/2016	10:50	9.35
S Broadway Pond	5/6/2016	10:51	9.34
S Broadway Pond	5/6/2016	10:52	9.33
S Broadway Pond	5/6/2016	10:53	9.32
S Broadway Pond	5/6/2016	10:54	9.31

Recommended Improvements.inp

S Broadway Pond	5/6/2016	10:55	9.30
S Broadway Pond	5/6/2016	10:56	9.29
S Broadway Pond	5/6/2016	10:57	9.28
S Broadway Pond	5/6/2016	10:58	9.27
S Broadway Pond	5/6/2016	10:59	9.26
S Broadway Pond	5/6/2016	11:00	9.25
S Broadway Pond	5/6/2016	11:01	9.24
S Broadway Pond	5/6/2016	11:02	9.23
S Broadway Pond	5/6/2016	11:03	9.22
S Broadway Pond	5/6/2016	11:04	9.21
S Broadway Pond	5/6/2016	11:05	9.20
S Broadway Pond	5/6/2016	11:06	9.19
S Broadway Pond	5/6/2016	11:07	9.18
S Broadway Pond	5/6/2016	11:08	9.17
S Broadway Pond	5/6/2016	11:09	9.16
S Broadway Pond	5/6/2016	11:10	9.15
S Broadway Pond	5/6/2016	11:11	9.14
S Broadway Pond	5/6/2016	11:12	9.13
S Broadway Pond	5/6/2016	11:13	9.12
S Broadway Pond	5/6/2016	11:14	9.11
S Broadway Pond	5/6/2016	11:15	9.10
S Broadway Pond	5/6/2016	11:16	9.08
S Broadway Pond	5/6/2016	11:17	9.07
S Broadway Pond	5/6/2016	11:18	9.06
S Broadway Pond	5/6/2016	11:19	9.05
S Broadway Pond	5/6/2016	11:20	9.04
S Broadway Pond	5/6/2016	11:21	9.03
S Broadway Pond	5/6/2016	11:22	9.02
S Broadway Pond	5/6/2016	11:23	9.01
S Broadway Pond	5/6/2016	11:24	9.00
S Broadway Pond	5/6/2016	11:25	8.99
S Broadway Pond	5/6/2016	11:26	8.98
S Broadway Pond	5/6/2016	11:27	8.97
S Broadway Pond	5/6/2016	11:28	8.96
S Broadway Pond	5/6/2016	11:29	8.95
S Broadway Pond	5/6/2016	11:30	8.94
S Broadway Pond	5/6/2016	11:31	8.93
S Broadway Pond	5/6/2016	11:32	8.92
S Broadway Pond	5/6/2016	11:33	8.91
S Broadway Pond	5/6/2016	11:34	8.9
S Broadway Pond	5/6/2016	11:35	8.65
S Broadway Pond	5/6/2016	11:36	8.73

Recommended Improvements.inp

S Broadway Pond	5/6/2016	11:37	8.92
S Broadway Pond	5/6/2016	11:38	8.97
S Broadway Pond	5/6/2016	11:39	8.87
S Broadway Pond	5/6/2016	11:40	8.74
S Broadway Pond	5/6/2016	11:41	8.71
S Broadway Pond	5/6/2016	11:42	8.79
S Broadway Pond	5/6/2016	11:43	8.88
S Broadway Pond	5/6/2016	11:44	8.91
S Broadway Pond	5/6/2016	11:45	8.87
S Broadway Pond	5/6/2016	11:46	8.8
S Broadway Pond	5/6/2016	11:47	8.76
S Broadway Pond	5/6/2016	11:48	8.76
S Broadway Pond	5/6/2016	11:49	8.8
S Broadway Pond	5/6/2016	11:50	8.84
S Broadway Pond	5/6/2016	11:51	8.86
S Broadway Pond	5/6/2016	11:52	8.86
S Broadway Pond	5/6/2016	11:53	8.83
S Broadway Pond	5/6/2016	11:54	8.81
S Broadway Pond	5/6/2016	11:55	8.79
S Broadway Pond	5/6/2016	11:56	8.78
S Broadway Pond	5/6/2016	11:57	8.79
S Broadway Pond	5/6/2016	11:58	8.81
S Broadway Pond	5/6/2016	11:59	8.82
S Broadway Pond	5/6/2016	12:00	8.83
S Broadway Pond	5/6/2016	12:01	8.83
S Broadway Pond	5/6/2016	12:02	8.81
S Broadway Pond	5/6/2016	12:03	8.69
S Broadway Pond	5/6/2016	12:04	8.45
S Broadway Pond	5/6/2016	12:05	8.12
S Broadway Pond	5/6/2016	12:06	7.74
S Broadway Pond	5/6/2016	12:07	7.35
S Broadway Pond	5/6/2016	12:08	7.05
S Broadway Pond	5/6/2016	12:09	6.86
S Broadway Pond	5/6/2016	12:10	6.73
S Broadway Pond	5/6/2016	12:11	6.66
S Broadway Pond	5/6/2016	12:12	6.61
S Broadway Pond	5/6/2016	12:13	6.58
S Broadway Pond	5/6/2016	12:14	6.56
S Broadway Pond	5/6/2016	12:15	6.55
S Broadway Pond	5/6/2016	12:16	6.54
S Broadway Pond	5/6/2016	12:17	6.54
S Broadway Pond	5/6/2016	12:18	6.54

Recommended Improvements.inp

S Broadway Pond	5/6/2016	12:19	6.54
S Broadway Pond	5/6/2016	12:20	6.55
S Broadway Pond	5/6/2016	12:21	6.55
S Broadway Pond	5/6/2016	12:22	6.56
S Broadway Pond	5/6/2016	12:23	6.56
S Broadway Pond	5/6/2016	12:24	6.57
S Broadway Pond	5/6/2016	12:25	6.57
S Broadway Pond	5/6/2016	12:26	6.58
S Broadway Pond	5/6/2016	12:27	6.59
S Broadway Pond	5/6/2016	12:28	6.59
S Broadway Pond	5/6/2016	12:29	6.6
S Broadway Pond	5/6/2016	12:30	6.6
S Broadway Pond	5/6/2016	12:31	6.61
S Broadway Pond	5/6/2016	12:32	6.62
S Broadway Pond	5/6/2016	12:33	6.62
S Broadway Pond	5/6/2016	12:34	6.63
S Broadway Pond	5/6/2016	12:35	6.63
S Broadway Pond	5/6/2016	12:36	6.64
S Broadway Pond	5/6/2016	12:37	6.64
S Broadway Pond	5/6/2016	12:38	6.65
S Broadway Pond	5/6/2016	12:39	6.65
S Broadway Pond	5/6/2016	12:40	6.65
S Broadway Pond	5/6/2016	12:41	6.66
S Broadway Pond	5/6/2016	12:42	6.66
S Broadway Pond	5/6/2016	12:43	6.67
S Broadway Pond	5/6/2016	12:44	6.67
S Broadway Pond	5/6/2016	12:45	6.67
S Broadway Pond	5/6/2016	12:46	6.68
S Broadway Pond	5/6/2016	12:47	6.68
S Broadway Pond	5/6/2016	12:48	6.68
S Broadway Pond	5/6/2016	12:49	6.69
S Broadway Pond	5/6/2016	12:50	6.69
S Broadway Pond	5/6/2016	12:51	6.69
S Broadway Pond	5/6/2016	12:52	6.69
S Broadway Pond	5/6/2016	12:53	6.7
S Broadway Pond	5/6/2016	12:54	6.7
S Broadway Pond	5/6/2016	12:55	6.7
S Broadway Pond	5/6/2016	12:56	6.7
S Broadway Pond	5/6/2016	12:57	6.71
S Broadway Pond	5/6/2016	12:58	6.71
S Broadway Pond	5/6/2016	12:59	6.71
S Broadway Pond	5/6/2016	13:00	6.71

Recommended Improvements.inp

S Broadway Pond	5/6/2016	13:01	6.71
S Broadway Pond	5/6/2016	13:02	6.72
S Broadway Pond	5/6/2016	13:03	6.72
S Broadway Pond	5/6/2016	13:04	6.72
S Broadway Pond	5/6/2016	13:05	6.72
S Broadway Pond	5/6/2016	13:06	6.73
S Broadway Pond	5/6/2016	13:07	6.73
S Broadway Pond	5/6/2016	13:08	6.73
S Broadway Pond	5/6/2016	13:09	6.73
S Broadway Pond	5/6/2016	13:10	6.74
S Broadway Pond	5/6/2016	13:11	6.74
S Broadway Pond	5/6/2016	13:12	6.74
S Broadway Pond	5/6/2016	13:13	6.74
S Broadway Pond	5/6/2016	13:14	6.74
S Broadway Pond	5/6/2016	13:15	6.74
S Broadway Pond	5/6/2016	13:16	6.75
S Broadway Pond	5/6/2016	13:17	6.75
S Broadway Pond	5/6/2016	13:18	6.75
S Broadway Pond	5/6/2016	13:19	6.75
S Broadway Pond	5/6/2016	13:20	6.75
S Broadway Pond	5/6/2016	13:21	6.75
S Broadway Pond	5/6/2016	13:22	6.75
S Broadway Pond	5/6/2016	13:23	6.75
S Broadway Pond	5/6/2016	13:24	6.75
S Broadway Pond	5/6/2016	13:25	6.75
S Broadway Pond	5/6/2016	13:26	6.76
S Broadway Pond	5/6/2016	13:27	6.76
S Broadway Pond	5/6/2016	13:28	6.76
S Broadway Pond	5/6/2016	13:29	6.76
S Broadway Pond	5/6/2016	13:30	6.76
S Broadway Pond	5/6/2016	13:31	6.76
S Broadway Pond	5/6/2016	13:32	6.76
S Broadway Pond	5/6/2016	13:33	6.76
S Broadway Pond	5/6/2016	13:34	6.76
S Broadway Pond	5/6/2016	13:35	6.76
S Broadway Pond	5/6/2016	13:36	6.77
S Broadway Pond	5/6/2016	13:37	6.77
S Broadway Pond	5/6/2016	13:38	6.77
S Broadway Pond	5/6/2016	13:39	6.77
S Broadway Pond	5/6/2016	13:40	6.77
S Broadway Pond	5/6/2016	13:41	6.77
S Broadway Pond	5/6/2016	13:42	6.77

Recommended Improvements.inp

S Broadway Pond	5/6/2016	13:43	6.77
S Broadway Pond	5/6/2016	13:44	6.78
S Broadway Pond	5/6/2016	13:45	6.78
S Broadway Pond	5/6/2016	13:46	6.78
S Broadway Pond	5/6/2016	13:47	6.78
S Broadway Pond	5/6/2016	13:48	6.78
S Broadway Pond	5/6/2016	13:49	6.78
S Broadway Pond	5/6/2016	13:50	6.78
S Broadway Pond	5/6/2016	13:51	6.78
S Broadway Pond	5/6/2016	13:52	6.78
S Broadway Pond	5/6/2016	13:53	6.78
S Broadway Pond	5/6/2016	13:54	6.78
S Broadway Pond	5/6/2016	13:55	6.78
S Broadway Pond	5/6/2016	13:56	6.78
S Broadway Pond	5/6/2016	13:57	6.78
S Broadway Pond	5/6/2016	13:58	6.78
S Broadway Pond	5/6/2016	13:59	6.78
S Broadway Pond	5/6/2016	14:00	6.78
S Broadway Pond	5/6/2016	14:01	6.78
S Broadway Pond	5/6/2016	14:02	6.78
S Broadway Pond	5/6/2016	14:03	6.78
S Broadway Pond	5/6/2016	14:04	6.78
S Broadway Pond	5/6/2016	14:05	6.78
S Broadway Pond	5/6/2016	14:06	6.78
S Broadway Pond	5/6/2016	14:07	6.79
S Broadway Pond	5/6/2016	14:08	6.79
S Broadway Pond	5/6/2016	14:09	6.79
S Broadway Pond	5/6/2016	14:10	6.79
S Broadway Pond	5/6/2016	14:11	6.79
S Broadway Pond	5/6/2016	14:12	6.79
S Broadway Pond	5/6/2016	14:13	6.79
S Broadway Pond	5/6/2016	14:14	6.79
S Broadway Pond	5/6/2016	14:15	6.79
S Broadway Pond	5/6/2016	14:16	6.79
S Broadway Pond	5/6/2016	14:17	6.79
S Broadway Pond	5/6/2016	14:18	6.79
S Broadway Pond	5/6/2016	14:19	6.79
S Broadway Pond	5/6/2016	14:20	6.79
S Broadway Pond	5/6/2016	14:21	6.79
S Broadway Pond	5/6/2016	14:22	6.79
S Broadway Pond	5/6/2016	14:23	6.79
S Broadway Pond	5/6/2016	14:24	6.79

Recommended Improvements.inp

S Broadway Pond	5/6/2016	14:25	6.79
S Broadway Pond	5/6/2016	14:26	6.79
S Broadway Pond	5/6/2016	14:27	6.79
S Broadway Pond	5/6/2016	14:28	6.79
S Broadway Pond	5/6/2016	14:29	6.79
S Broadway Pond	5/6/2016	14:30	6.79
S Broadway Pond	5/6/2016	14:31	6.79
S Broadway Pond	5/6/2016	14:32	6.79
S Broadway Pond	5/6/2016	14:33	6.79
S Broadway Pond	5/6/2016	14:34	6.79
S Broadway Pond	5/6/2016	14:35	6.79
S Broadway Pond	5/6/2016	14:36	6.8
S Broadway Pond	5/6/2016	14:37	6.8
S Broadway Pond	5/6/2016	14:38	6.8
S Broadway Pond	5/6/2016	14:39	6.8
S Broadway Pond	5/6/2016	14:40	6.8
S Broadway Pond	5/6/2016	14:41	6.8
S Broadway Pond	5/6/2016	14:42	6.8
S Broadway Pond	5/6/2016	14:43	6.8
S Broadway Pond	5/6/2016	14:44	6.8
S Broadway Pond	5/6/2016	14:45	6.8
S Broadway Pond	5/6/2016	14:46	6.8
S Broadway Pond	5/6/2016	14:47	6.8
S Broadway Pond	5/6/2016	14:48	6.8
S Broadway Pond	5/6/2016	14:49	6.8
S Broadway Pond	5/6/2016	14:50	6.8
S Broadway Pond	5/6/2016	14:51	6.8
S Broadway Pond	5/6/2016	14:52	6.8
S Broadway Pond	5/6/2016	14:53	6.8
S Broadway Pond	5/6/2016	14:54	6.8
S Broadway Pond	5/6/2016	14:55	6.8
S Broadway Pond	5/6/2016	14:56	6.8
S Broadway Pond	5/6/2016	14:57	6.8
S Broadway Pond	5/6/2016	14:58	6.8
S Broadway Pond	5/6/2016	14:59	6.8
S Broadway Pond	5/6/2016	15:00	6.8
S Broadway Pond	5/6/2016	15:01	6.8
S Broadway Pond	5/6/2016	15:02	6.8
S Broadway Pond	5/6/2016	15:03	6.8
S Broadway Pond	5/6/2016	15:04	6.8
S Broadway Pond	5/6/2016	15:05	6.8
S Broadway Pond	5/6/2016	15:06	6.8

Recommended Improvements.inp

S Broadway Pond	5/6/2016	15:07	6.8
S Broadway Pond	5/6/2016	15:08	6.8
S Broadway Pond	5/6/2016	15:09	6.81
S Broadway Pond	5/6/2016	15:10	6.81
S Broadway Pond	5/6/2016	15:11	6.81
S Broadway Pond	5/6/2016	15:12	6.81
S Broadway Pond	5/6/2016	15:13	6.81
S Broadway Pond	5/6/2016	15:14	6.81
S Broadway Pond	5/6/2016	15:15	6.81
S Broadway Pond	5/6/2016	15:16	6.82
S Broadway Pond	5/6/2016	15:17	6.82
S Broadway Pond	5/6/2016	15:18	6.82
S Broadway Pond	5/6/2016	15:19	6.82
S Broadway Pond	5/6/2016	15:20	6.82
S Broadway Pond	5/6/2016	15:21	6.82
S Broadway Pond	5/6/2016	15:22	6.82
S Broadway Pond	5/6/2016	15:23	6.82
S Broadway Pond	5/6/2016	15:24	6.82
S Broadway Pond	5/6/2016	15:25	6.82
S Broadway Pond	5/6/2016	15:26	6.82
S Broadway Pond	5/6/2016	15:27	6.82
S Broadway Pond	5/6/2016	15:28	6.82
S Broadway Pond	5/6/2016	15:29	6.82
S Broadway Pond	5/6/2016	15:30	6.82
S Broadway Pond	5/6/2016	15:31	6.82
S Broadway Pond	5/6/2016	15:32	6.82
S Broadway Pond	5/6/2016	15:33	6.82
S Broadway Pond	5/6/2016	15:34	6.82
S Broadway Pond	5/6/2016	15:35	6.82
S Broadway Pond	5/6/2016	15:36	6.82
S Broadway Pond	5/6/2016	15:37	6.82
S Broadway Pond	5/6/2016	15:38	6.82
S Broadway Pond	5/6/2016	15:39	6.82
S Broadway Pond	5/6/2016	15:40	6.82
S Broadway Pond	5/6/2016	15:41	6.82
S Broadway Pond	5/6/2016	15:42	6.82
S Broadway Pond	5/6/2016	15:43	6.82
S Broadway Pond	5/6/2016	15:44	6.82
S Broadway Pond	5/6/2016	15:45	6.82
S Broadway Pond	5/6/2016	15:46	6.82
S Broadway Pond	5/6/2016	15:47	6.82
S Broadway Pond	5/6/2016	15:48	6.82

S Broadway Pond	5/6/2016	15:49	6.82
S Broadway Pond	5/6/2016	15:50	6.82
S Broadway Pond	5/6/2016	15:51	6.82
S Broadway Pond	5/6/2016	15:52	6.82
S Broadway Pond	5/6/2016	15:53	6.82
S Broadway Pond	5/6/2016	15:54	6.82
S Broadway Pond	5/6/2016	15:55	6.82
S Broadway Pond	5/6/2016	15:56	6.82
S Broadway Pond	5/6/2016	15:57	6.82
S Broadway Pond	5/6/2016	15:58	6.82
S Broadway Pond	5/6/2016	15:59	6.82
S Broadway Pond	5/6/2016	16:00	6.82
S Broadway Pond	5/6/2016	16:01	6.82
S Broadway Pond	5/6/2016	16:02	6.82
S Broadway Pond	5/6/2016	16:03	6.82
S Broadway Pond	5/6/2016	16:04	6.82
S Broadway Pond	5/6/2016	16:05	6.82
S Broadway Pond	5/6/2016	16:06	6.82
S Broadway Pond	5/6/2016	16:07	6.82
S Broadway Pond	5/6/2016	16:08	6.82
S Broadway Pond	5/6/2016	16:09	6.82
S Broadway Pond	5/6/2016	16:10	6.82
S Broadway Pond	5/6/2016	16:11	6.82
S Broadway Pond	5/6/2016	16:12	6.81
S Broadway Pond	5/6/2016	16:13	6.81
S Broadway Pond	5/6/2016	16:14	6.81
S Broadway Pond	5/6/2016	16:15	6.81
S Broadway Pond	5/6/2016	16:16	6.81
S Broadway Pond	5/6/2016	16:17	6.81
S Broadway Pond	5/6/2016	16:18	6.81
S Broadway Pond	5/6/2016	16:19	6.81
S Broadway Pond	5/6/2016	16:20	6.81
S Broadway Pond	5/6/2016	16:21	6.81
S Broadway Pond	5/6/2016	16:22	6.82
S Broadway Pond	5/6/2016	16:23	6.82
S Broadway Pond	5/6/2016	16:24	6.82
S Broadway Pond	5/6/2016	16:25	6.82
S Broadway Pond	5/6/2016	16:26	6.82
S Broadway Pond	5/6/2016	16:27	6.82
S Broadway Pond	5/6/2016	16:28	6.82
S Broadway Pond	5/6/2016	16:29	6.82
S Broadway Pond	5/6/2016	16:30	6.82

Recommended Improvements.inp

S Broadway Pond	5/6/2016	16:31	6.82
S Broadway Pond	5/6/2016	16:32	6.82
S Broadway Pond	5/6/2016	16:33	6.81
S Broadway Pond	5/6/2016	16:34	6.81
S Broadway Pond	5/6/2016	16:35	6.81
S Broadway Pond	5/6/2016	16:36	6.81
S Broadway Pond	5/6/2016	16:37	6.81
S Broadway Pond	5/6/2016	16:38	6.81
S Broadway Pond	5/6/2016	16:39	6.81
S Broadway Pond	5/6/2016	16:40	6.81
S Broadway Pond	5/6/2016	16:41	6.81
S Broadway Pond	5/6/2016	16:42	6.81
S Broadway Pond	5/6/2016	16:43	6.81
S Broadway Pond	5/6/2016	16:44	6.81
S Broadway Pond	5/6/2016	16:45	6.81
S Broadway Pond	5/6/2016	16:46	6.81
S Broadway Pond	5/6/2016	16:47	6.81
S Broadway Pond	5/6/2016	16:48	6.81
S Broadway Pond	5/6/2016	16:49	6.81
S Broadway Pond	5/6/2016	16:50	6.81
S Broadway Pond	5/6/2016	16:51	6.81
S Broadway Pond	5/6/2016	16:52	6.81
S Broadway Pond	5/6/2016	16:53	6.81
S Broadway Pond	5/6/2016	16:54	6.81
S Broadway Pond	5/6/2016	16:55	6.81
S Broadway Pond	5/6/2016	16:56	6.81
S Broadway Pond	5/6/2016	16:57	6.81
S Broadway Pond	5/6/2016	16:58	6.81
S Broadway Pond	5/6/2016	16:59	6.81
S Broadway Pond	5/6/2016	17:00	6.81
S Broadway Pond	5/6/2016	17:01	6.81
S Broadway Pond	5/6/2016	17:02	6.81
S Broadway Pond	5/6/2016	17:03	6.81
S Broadway Pond	5/6/2016	17:04	6.81
S Broadway Pond	5/6/2016	17:05	6.81
S Broadway Pond	5/6/2016	17:06	6.81
S Broadway Pond	5/6/2016	17:07	6.81
S Broadway Pond	5/6/2016	17:08	6.81
S Broadway Pond	5/6/2016	17:09	6.81
S Broadway Pond	5/6/2016	17:10	6.81
S Broadway Pond	5/6/2016	17:11	6.8
S Broadway Pond	5/6/2016	17:12	6.8

Recommended Improvements.inp

S Broadway Pond	5/6/2016	17:13	6.8
S Broadway Pond	5/6/2016	17:14	6.8
S Broadway Pond	5/6/2016	17:15	6.8
S Broadway Pond	5/6/2016	17:16	6.8
S Broadway Pond	5/6/2016	17:17	6.8
S Broadway Pond	5/6/2016	17:18	6.8
S Broadway Pond	5/6/2016	17:19	6.8
S Broadway Pond	5/6/2016	17:20	6.8
S Broadway Pond	5/6/2016	17:21	6.8
S Broadway Pond	5/6/2016	17:22	6.8
S Broadway Pond	5/6/2016	17:23	6.8
S Broadway Pond	5/6/2016	17:24	6.8
S Broadway Pond	5/6/2016	17:25	6.8
S Broadway Pond	5/6/2016	17:26	6.8
S Broadway Pond	5/6/2016	17:27	6.8
S Broadway Pond	5/6/2016	17:28	6.8
S Broadway Pond	5/6/2016	17:29	6.8
S Broadway Pond	5/6/2016	17:30	6.8
S Broadway Pond	5/6/2016	17:31	6.8
S Broadway Pond	5/6/2016	17:32	6.8
S Broadway Pond	5/6/2016	17:33	6.8
S Broadway Pond	5/6/2016	17:34	6.8
S Broadway Pond	5/6/2016	17:35	6.8
S Broadway Pond	5/6/2016	17:36	6.8
S Broadway Pond	5/6/2016	17:37	6.8
S Broadway Pond	5/6/2016	17:38	6.8
S Broadway Pond	5/6/2016	17:39	6.8
S Broadway Pond	5/6/2016	17:40	6.8
S Broadway Pond	5/6/2016	17:41	6.8
S Broadway Pond	5/6/2016	17:42	6.8
S Broadway Pond	5/6/2016	17:43	6.8
S Broadway Pond	5/6/2016	17:44	6.8
S Broadway Pond	5/6/2016	17:45	6.8
S Broadway Pond	5/6/2016	17:46	6.8
S Broadway Pond	5/6/2016	17:47	6.8
S Broadway Pond	5/6/2016	17:48	6.8
S Broadway Pond	5/6/2016	17:49	6.8
S Broadway Pond	5/6/2016	17:50	6.8
S Broadway Pond	5/6/2016	17:51	6.8
S Broadway Pond	5/6/2016	17:52	6.8
S Broadway Pond	5/6/2016	17:53	6.8
S Broadway Pond	5/6/2016	17:54	6.8

Recommended Improvements.inp

S Broadway Pond	5/6/2016	17:55	6.8
S Broadway Pond	5/6/2016	17:56	6.8
S Broadway Pond	5/6/2016	17:57	6.8
S Broadway Pond	5/6/2016	17:58	6.8
S Broadway Pond	5/6/2016	17:59	6.8

;Unit hydrograph for sub-basin #1 developed using COA DPM Modified Rational Method.

UH-B1	5/6/2016	0:00	0
UH-B1	5/6/2016	00:12	10.21
UH-B1	5/6/2016	00:24	10.21
UH-B1	5/6/2016	00:43	0

;Unit hydrograph for sub-basin #10 using COA DPM Modified Rational Method.

UH-B10	5/6/2016	0:00	0
UH-B10	5/6/2016	0:14	5.03
UH-B10	5/6/2016	0:21	5.03
UH-B10	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #11 using COA DPM Modified Rational Method.

UH-B11	5/6/2016	0:00	0
UH-B11	5/6/2016	0:15	17.84
UH-B11	5/6/2016	0:19	17.84
UH-B11	5/6/2016	0:45	0

;Unit hydrograph for sub-basin 12 using COA DPM Modified Rational Method.

UH-B12	5/6/2016	0:00	0
UH-B12	5/6/2016	0:14	7.08
UH-B12	5/6/2016	0:20	7.08
UH-B12	5/6/2016	0:45	0

;Unit hydrograph for sub-basin 13 using COA DPM Modified Rational Method.

UH-B13	5/6/2016	0:00	0
UH-B13	5/6/2016	0:14	26.51
UH-B13	5/6/2016	0:21	26.51
UH-B13	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #2 using COA DPM Modified Rational Method.

UH-B2	5/6/2016	0:00	0
UH-B2	5/6/2016	0:14	21.48
UH-B2	5/6/2016	0:21	21.48
UH-B2	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #3 using COA DPM Modified Rational Method.

UH-B3	5/6/2016	0:00	0
UH-B3	5/6/2016	0:14	6.43
UH-B3	5/6/2016	0:20	6.43
UH-B3	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #4 using COA DPM Modified Rational Method.

UH-B4	5/6/2016	0:00	0
UH-B4	5/6/2016	0:14	6.96
UH-B4	5/6/2016	0:21	6.96
UH-B4	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #5 using COA DPM Modified Rational Method

UH-B5	5/6/2016	0:00	0
UH-B5	5/6/2016	0:14	14.64
UH-B5	5/6/2016	0:21	14.64
UH-B5	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #6 using COA DPM Modified Rational Method.

UH-B6	5/6/2016	0:00	0
UH-B6	5/6/2016	0:14	11.73
UH-B6	5/6/2016	0:21	11.73
UH-B6	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #7 using COA DPM Modified Rational Method.

UH-B7	5/6/2016	0:00	0
UH-B7	5/6/2016	0:14	9.15
UH-B7	5/6/2016	0:21	9.15
UH-B7	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #8 using COA DPM Modified Rational Method.

UH-B8	5/6/2016	0:00	0
UH-B8	5/6/2016	0:14	8.71
UH-B8	5/6/2016	0:21	8.71
UH-B8	5/6/2016	0:45	0

;Unit hydrograph for sub-basin #9 using COA DPM Modified Rational Method.

UH-B9	5/6/2016	0:00	0
UH-B9	5/6/2016	0:14	11.05
UH-B9	5/6/2016	0:21	11.05
UH-B9	5/6/2016	0:45	0

[REPORT]
 INPUT YES
 CONTROLS YES

[TAGS]

[MAP]				
DIMENSIONS	1520851.51	1481092.25	1521703.26	1483227.02
UNITS	Feet			

[COORDINATES]

;;Node	X-Coord	Y-Coord
DI2024	1521464.40	1482627.25
DI2046	1521132.64	1482625.37
K14941	1521127.10	1482521.88
K14942	1521091.60	1482287.96
K14943	1521139.22	1482285.17
K14944	1521142.93	1482609.67
K14945	1521410.07	1482629.98
K14951	1521435.40	1482633.43
K14952	1521444.18	1482278.82
K14953	1521650.77	1482287.06
K14954	1521432.24	1482666.96
L14041	1521030.20	1481900.11
L14042	1521049.29	1481897.72
L14051	1521229.76	1481896.04
L14052	1521448.09	1482120.24
L14053	1521660.68	1482098.58
L14054	1521657.12	1481896.30
L14055	1521412.85	1481899.95
L14141	1520921.98	1481228.76
L14142	1520974.20	1481554.94
L14143	1520918.32	1481193.13
L14146	1521008.94	1481549.41
L14151	1521357.36	1481565.42
L14152	1521298.17	1481200.66
L14999	1521264.33	1481195.52
L14JB145	1521003.65	1481189.28
L14JB2	1520997.60	1481244.15
Unknown	1521215.44	1483020.04
L14PS1	1520997.73	1481242.01
Park	1521664.54	1481838.51

Recommended Improvements.inp

SBroadwayPond	1521440.51	1483089.10
SurgePond	1521399.97	1483129.98

[VERTICES]

;;Link	X-Coord	Y-Coord
Commercial_Sag	1521091.07	1482563.31
E.Cromwell	1521561.32	1482327.70
Link-17	1521643.10	1481566.87
N.Commercial	1521030.16	1482398.29
N.William	1521487.30	1482435.30
Pacific	1521246.24	1482667.33
Pacific_William	1521465.12	1482651.40
S.Commercial_A	1520895.83	1481387.38
S.Commercial_B	1520890.23	1481220.24
S.William	1521398.89	1481381.21
W.Garfield_A	1521152.26	1481980.28
W.Garfield_B	1521238.51	1481985.02
W.Garfield_Junct	1521043.84	1481915.03
William_1A	1521513.22	1482191.70
William_1B	1521505.12	1482095.36
William_Pacific	1521394.65	1482667.62

[PROFILES]

;;Name	Links
;;-----	
"SouthBroadwaytoPump"	SDP1 SDP2 SDP3 SDP4 SDP5
"SouthBroadwaytoPump"	SDP6 SDP7 SDP8 SDP9 SDP10
"SouthBroadwaytoPump"	SDP28
"SouthBroadway Pond to Pump Station through Road"	SDP1 William_Pacific Pacific_Commercial SDP4 SDP5
"SouthBroadway Pond to Pump Station through Road"	SDP6 SDP7 SDP8 SDP9 SDP10
"SouthBroadway Pond to Pump Station through Road"	SDP28
" "	SDP1 Williams_Pacific SDP4 SDP5 SDP6
" "	SDP7 SDP8 SDP9 SDP10 SDP28
"SouthBroadway Street Profile"	SDP1 Williams_Pacific SDP4 SDP5 SDP6
"SouthBroadway Street Profile"	SDP7 SDP8 SDP9 SDP10 SDP28
"FullStreet "	SDP1 Williams_Pacific Commercial SDP5 SDP6
"FullStreet "	SDP7 SDP8 SDP9 SDP10 SDP28

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.

Analysis Options

Flow Units CFS

Process Models:

Rainfall/Runoff NO

Snowmelt NO

Groundwater NO

Flow Routing YES

Ponding Allowed NO

Water Quality NO

Flow Routing Method DYNWAVE

Starting Date MAY-06-2016 00:00:00

Ending Date MAY-07-2016 00:00:00

Antecedent Dry Days 0.0

Report Time Step 00:00:15

Routing Time Step 15.00 sec

WARNING 02: maximum depth increased for Node L14051

Element Count

Number of rain gages 0

Number of subcatchments ... 0

Number of nodes 32

Number of links 48

Number of pollutants 0

Number of land uses 0

Recommended Improvements.rpt

Node Summary

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
DI2024	JUNCTION	4945.64	3.87	0.0	Yes
DI2046	JUNCTION	4945.39	3.50	0.0	Yes
K14941	JUNCTION	4937.35	11.75	0.0	Yes
K14942	JUNCTION	4936.82	13.35	0.0	
K14943	JUNCTION	4946.02	3.75	0.0	
K14944	JUNCTION	4937.60	11.85	0.0	
K14945	JUNCTION	4937.94	12.20	0.0	
K14951	JUNCTION	4945.21	4.60	0.0	
K14952	JUNCTION	4943.04	6.05	0.0	Yes
K14953	JUNCTION	4943.86	7.17	0.0	Yes
K14954	JUNCTION	4937.94	11.81	0.0	
L14041	JUNCTION	4936.60	11.17	0.0	
L14042	JUNCTION	4943.53	3.70	0.0	Yes
L14051	JUNCTION	4944.35	2.99	0.0	
L14052	JUNCTION	4941.40	7.23	0.0	Yes
L14053	JUNCTION	4943.06	7.31	0.0	Yes
L14054	JUNCTION	4942.28	9.58	0.0	
L14055	JUNCTION	4939.88	9.56	0.0	Yes
L14141	JUNCTION	4936.08	12.24	0.0	
L14142	JUNCTION	4935.24	13.23	0.0	Yes
L14143	JUNCTION	4935.66	12.35	0.0	Yes
L14146	JUNCTION	4943.06	5.41	0.0	
L14151	JUNCTION	4939.08	9.82	0.0	Yes
L14152	JUNCTION	4937.58	11.05	0.0	Yes
L14999	JUNCTION	4937.30	11.28	0.0	
L14JB145	JUNCTION	4934.73	13.55	0.0	
L14JB2	OUTFALL	4952.21	0.00	0.0	
Unknown	OUTFALL	4952.00	15.32	0.0	
L14PS1	STORAGE	4926.99	22.67	0.0	
Park	STORAGE	4941.50	7.00	0.0	
SBroadwayPond	STORAGE	4938.42	15.32	0.0	Yes
SurgePond	STORAGE	4939.96	15.00	0.0	

Recommended Improvements.rpt

Link Summary

Name	From Node	To Node	Type	Length	%Slope	Roughness
Commercial_Sag	K14941	DI2046	CONDUIT	92.2	0.2821	0.0170
E.Cromwell	K14953	K14952	CONDUIT	170.0	1.0883	0.0170
Link-13	DI2024	K14951	CONDUIT	18.4	0.4346	0.0130
Link-14	DI2046	K14944	CONDUIT	46.1	16.8088	0.0130
Link-16	L14054	Park	CONDUIT	58.7	1.3291	0.0130
Link-17	Park	L14151	CONDUIT	407.6	0.5937	0.0130
Link-20	SurgePond	SBroadwayPond	CONDUIT	57.0	2.7013	0.0130
N.Commercial	K14942	K14941	CONDUIT	234.0	0.5513	0.0170
N.William	DI2024	K14952	CONDUIT	355.0	0.0958	0.0170
Pacific	K14945	DI2046	CONDUIT	268.0	0.5672	0.0170
Pacific_William	K14954	K14951	CONDUIT	34.0	1.2354	0.0170
S.Commercial_A	L14142	L14141	CONDUIT	330.0	0.0182	0.0170
S.Commercial_B	L14141	L14143	CONDUIT	36.0	1.5280	0.0170
S.William	L14152	L14151	CONDUIT	370.0	0.0081	0.0170
SDP1	SBroadwayPond	K14954	CONDUIT	411.0	0.0925	0.0130
SDP10	L14143	L14JB145	CONDUIT	85.4	0.5971	0.0130
SDP11	K14951	K14952	CONDUIT	354.7	0.5892	0.0130
SDP12	K14952	L14052	CONDUIT	158.6	0.7817	0.0130
SDP13	L14052	L14055	CONDUIT	223.1	0.4572	0.0130
SDP14	L14055	L14151	CONDUIT	339.1	0.1268	0.0130
SDP15	L14151	L14152	CONDUIT	369.5	0.1759	0.0130
SDP16	L14999	L14152	CONDUIT	34.2	1.4317	0.0130
SDP17	L14999	L14JB145	CONDUIT	260.8	0.7172	0.0130
SDP19	L14055	L14051	CONDUIT	183.1	0.1201	0.0130
SDP2	K14945	K14954	CONDUIT	43.1	0.1159	0.0130
SDP20	L14053	L14054	CONDUIT	199.7	0.3906	0.0130
SDP21	K14953	L14053	CONDUIT	191.1	0.4185	0.0130
SDP22	L14054	L14055	CONDUIT	244.3	0.1199	0.0130
SDP24	L14042	L14041	CONDUIT	19.2	0.1195	0.0130
SDP25	L14051	L14042	CONDUIT	180.5	0.1219	0.0100
SDP26	L14146	L14142	CONDUIT	35.2	0.1194	0.0130
SDP27	K14943	K14942	CONDUIT	47.7	0.4192	0.0130
SDP28	L14JB145	L14PS1	CONDUIT	53.1	2.4320	0.0130
SDP3	K14945	K14944	CONDUIT	267.9	0.0709	0.0130
SDP4	K14944	K14941	CONDUIT	92.2	0.1085	0.0130
SDP5	K14941	K14942	CONDUIT	233.6	0.1413	0.0130
SDP6	K14942	L14041	CONDUIT	392.7	0.0255	0.0130
SDP7	L14041	L14142	CONDUIT	349.7	0.3603	0.0130

Recommended Improvements.rpt

SDP8	L14141	L14142	CONDUIT	330.3	0.2785	0.0130
SDP9	L14143	L14141	CONDUIT	35.8	2.2344	0.0130
W.Garfield_A	L14051	L14042	CONDUIT	181.0	0.2044	0.0170
W.Garfield_B	L14055	L14051	CONDUIT	183.0	1.0492	0.0170
W.Garfield_Junct	L14041	L14042	CONDUIT	19.0	3.1068	0.0170
William_1A	K14952	L14052	CONDUIT	158.0	0.3418	0.0170
William_1B	L14055	L14052	CONDUIT	223.0	0.3632	0.0170
William_Pacific	K14945	K14954	CONDUIT	43.0	0.9070	0.0170
PUMP_CT-3500-135_02	L14PS1	L14JB2	TYPE3 PUMP			
EmergencySpillwaySBroadwayPond	Unknown		WEIR			

Cross Section Summary

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
Commercial_Sag	Standard	0.67	16.28	0.49	32.00	1	46.94
E.Cromwell	Standard	0.67	16.28	0.49	32.00	1	92.19
Link-13	CIRCULAR	1.50	1.77	0.38	1.50	1	6.92
Link-14	CIRCULAR	1.50	1.77	0.38	1.50	1	43.07
Link-16	CIRCULAR	2.50	4.91	0.63	2.50	1	47.29
Link-17	CIRCULAR	1.50	1.77	0.38	1.50	1	8.09
Link-20	CIRCULAR	5.00	19.63	1.25	5.00	1	428.06
N.Commercial	Standard	0.67	16.28	0.49	32.00	1	65.61
N.William	Standard	0.67	16.28	0.49	32.00	1	27.35
Pacific	Standard	0.67	16.28	0.49	32.00	1	66.55
Pacific_William	Standard	0.67	16.28	0.49	32.00	1	98.22
S.Commercial_A	Standard	0.67	16.28	0.49	32.00	1	11.92
S.Commercial_B	Standard	0.67	16.28	0.49	32.00	1	109.23
S.William	Standard	0.67	16.28	0.49	32.00	1	7.96
SDP1	CIRCULAR	2.50	4.91	0.63	2.50	1	12.47
SDP10	CIRCULAR	4.00	12.57	1.00	4.00	1	111.00
SDP11	CIRCULAR	2.00	3.14	0.50	2.00	1	17.37
SDP12	CIRCULAR	2.00	3.14	0.50	2.00	1	20.00
SDP13	CIRCULAR	2.50	4.91	0.63	2.50	1	27.73
SDP14	CIRCULAR	3.00	7.07	0.75	3.00	1	23.75
SDP15	CIRCULAR	3.00	7.07	0.75	3.00	1	27.97
SDP16	CIRCULAR	4.00	12.57	1.00	4.00	1	171.87
SDP17	CIRCULAR	4.00	12.57	1.00	4.00	1	121.64
SDP19	CIRCULAR	1.00	0.79	0.25	1.00	1	1.23

Recommended Improvements.rpt

SDP2	CIRCULAR	2.50	4.91	0.63	2.50	1	13.97
SDP20	CIRCULAR	2.00	3.14	0.50	2.00	1	14.14
SDP21	CIRCULAR	2.00	3.14	0.50	2.00	1	14.64
SDP22	CIRCULAR	1.00	0.79	0.25	1.00	1	1.23
SDP24	CIRCULAR	2.00	3.14	0.50	2.00	1	7.82
SDP25	CIRCULAR	1.00	0.79	0.25	1.00	1	1.62
SDP26	CIRCULAR	1.50	1.77	0.38	1.50	1	3.63
SDP27	CIRCULAR	1.50	1.77	0.38	1.50	1	6.80
SDP28	CIRCULAR	4.00	12.57	1.00	4.00	1	224.01
SDP3	CIRCULAR	2.50	4.91	0.63	2.50	1	10.92
SDP4	CIRCULAR	2.50	4.91	0.63	2.50	1	13.51
SDP5	CIRCULAR	2.50	4.91	0.63	2.50	1	15.42
SDP6	CIRCULAR	2.50	4.91	0.63	2.50	1	6.55
SDP7	CIRCULAR	2.50	4.91	0.63	2.50	1	24.62
SDP8	CIRCULAR	2.50	4.91	0.63	2.50	1	21.65
SDP9	CIRCULAR	4.00	12.57	1.00	4.00	1	214.72
W.Garfield_A	Standard	0.67	16.28	0.49	32.00	1	39.95
W.Garfield_B	Standard	0.67	16.28	0.49	32.00	1	90.52
W.Garfield_Junct	Standard	0.67	16.28	0.49	32.00	1	155.76
William_1A	Standard	0.67	16.28	0.49	32.00	1	51.66
William_1B	Standard	0.67	16.28	0.49	32.00	1	53.26
William_Pacific	Standard	0.67	16.28	0.49	32.00	1	84.16

Transect Summary

Transect Standard

Area:

0.0005	0.0022	0.0049	0.0088	0.0137
0.0198	0.0269	0.0352	0.0445	0.0550
0.0665	0.0791	0.0929	0.1077	0.1236
0.1407	0.1588	0.1780	0.1984	0.2198
0.2423	0.2660	0.2907	0.3165	0.3428
0.3690	0.3953	0.4215	0.4478	0.4740
0.5003	0.5266	0.5528	0.5791	0.6054
0.6317	0.6580	0.6843	0.7106	0.7369
0.7632	0.7895	0.8158	0.8421	0.8684
0.8947	0.9210	0.9473	0.9737	1.0000

Hrad:

Recommended Improvements.rpt

0.0134	0.0268	0.0402	0.0536	0.0670
0.0805	0.0939	0.1073	0.1207	0.1341
0.1475	0.1609	0.1743	0.1877	0.2011
0.2145	0.2279	0.2414	0.2548	0.2682
0.2816	0.2950	0.3084	0.3234	0.3499
0.3764	0.4028	0.4292	0.4556	0.4819
0.5082	0.5344	0.5606	0.5868	0.6129
0.6390	0.6650	0.6910	0.7170	0.7429
0.7688	0.7947	0.8205	0.8462	0.8719
0.8976	0.9233	0.9489	0.9745	1.0000

Width:

0.0417	0.0835	0.1252	0.1670	0.2087
0.2504	0.2922	0.3339	0.3756	0.4174
0.4591	0.5009	0.5426	0.5843	0.6261
0.6678	0.7096	0.7513	0.7930	0.8348
0.8765	0.9182	0.9600	0.9968	0.9969
0.9970	0.9971	0.9972	0.9974	0.9975
0.9976	0.9977	0.9979	0.9980	0.9981
0.9983	0.9984	0.9985	0.9986	0.9988
0.9989	0.9990	0.9991	0.9992	0.9994
0.9995	0.9996	0.9998	0.9999	1.0000

Control Actions Taken

Flow Routing Continuity

	Volume acre-feet	Volume 10^6 gal
	-----	-----
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.000	0.000
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	59.383	19.351
External Outflow	58.131	18.943
Internal Outflow	0.000	0.000
Storage Losses	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	1.220	0.397
Continuity Error (%)	0.055	

Highest Continuity Errors

Node L14051 (-2.86%)

Time-Step Critical Elements

Link SDP9 (91.04%)

Link SDP28 (2.34%)

Link SDP2 (1.96%)

Link Link-20 (1.35%)

Link SDP24 (1.18%)

Highest Flow Instability Indexes

Link SDP11 (4)

Link SDP12 (1)

Link SDP28 (1)

Routing Time Step Summary

Minimum Time Step : 0.50 sec

Average Time Step : 2.15 sec

Maximum Time Step : 15.00 sec

Percent in Steady State : 0.00

Average Iterations per Step : 2.05

Node Depth Summary

Average Maximum Maximum Time of Max

Node	Type	Depth Feet	Depth Feet	HGL Feet	Occurrence days hr:min
DI2024	JUNCTION	0.13	3.56	4949.20	0 00:24
DI2046	JUNCTION	0.57	2.79	4948.18	0 00:34
K14941	JUNCTION	6.87	10.52	4947.87	0 00:35
K14942	JUNCTION	6.32	10.59	4947.41	0 00:34
K14943	JUNCTION	0.03	1.42	4947.44	0 00:34
K14944	JUNCTION	7.05	10.42	4948.02	0 00:36
K14945	JUNCTION	7.92	10.96	4948.90	0 02:07
K14951	JUNCTION	0.16	3.72	4948.93	0 00:25
K14952	JUNCTION	0.18	5.64	4948.68	0 00:27
K14953	JUNCTION	0.07	3.01	4946.87	0 00:21
K14954	JUNCTION	8.13	11.27	4949.21	0 02:07
L14041	JUNCTION	4.76	10.32	4946.92	0 00:41
L14042	JUNCTION	0.10	3.67	4947.20	0 00:33
L14051	JUNCTION	0.07	2.86	4947.21	0 00:32
L14052	JUNCTION	0.21	6.90	4948.30	0 00:28
L14053	JUNCTION	0.08	3.25	4946.31	0 00:12
L14054	JUNCTION	0.09	1.53	4943.81	0 00:44
L14055	JUNCTION	0.27	7.45	4947.33	0 00:25
L14141	JUNCTION	2.13	9.35	4945.43	0 00:24
L14142	JUNCTION	4.50	11.01	4946.25	0 00:25
L14143	JUNCTION	1.56	9.76	4945.42	0 00:24
L14146	JUNCTION	0.06	3.19	4946.25	0 00:25
L14151	JUNCTION	0.42	7.60	4946.68	0 00:24
L14152	JUNCTION	0.80	8.26	4945.84	0 00:24
L14999	JUNCTION	0.34	8.48	4945.78	0 00:24
L14JB145	JUNCTION	1.22	10.66	4945.39	0 00:24
L14JB2	OUTFALL	0.00	0.00	4952.21	0 00:00
Unknown	OUTFALL	0.00	0.00	4952.00	0 00:00
L14PS1	STORAGE	0.56	18.21	4945.20	0 00:24
Park	STORAGE	0.23	2.17	4943.67	0 00:41
SBroadwayPond	STORAGE	9.51	13.66	4952.08	0 02:06
SurgePond	STORAGE	7.81	12.12	4952.08	0 02:09

Node Inflow Summary

Recommended Improvements.rpt

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
DI2024	JUNCTION	21.48	21.48	0 00:14	0.251	0.251
DI2046	JUNCTION	10.21	10.21	0 00:12	0.126	0.126
K14941	JUNCTION	6.43	32.78	0 02:06	0.074	17.335
K14942	JUNCTION	0.00	32.78	0 02:07	0.000	17.330
K14943	JUNCTION	0.00	0.47	0 00:20	0.000	0.001
K14944	JUNCTION	0.00	32.78	0 02:06	0.000	17.281
K14945	JUNCTION	0.00	32.78	0 01:23	0.000	17.173
K14951	JUNCTION	0.00	15.25	0 00:13	0.000	0.210
K14952	JUNCTION	6.96	24.68	0 00:24	0.081	0.372
K14953	JUNCTION	14.64	14.64	0 00:14	0.171	0.171
K14954	JUNCTION	0.00	34.06	0 02:07	0.000	17.221
L14041	JUNCTION	0.00	66.12	0 00:40	0.000	17.654
L14042	JUNCTION	11.73	45.39	0 00:27	0.137	0.350
L14051	JUNCTION	0.00	10.59	0 00:28	0.000	0.024
L14052	JUNCTION	9.15	30.45	0 00:24	0.107	0.482
L14053	JUNCTION	8.71	23.38	0 00:15	0.102	0.273
L14054	JUNCTION	0.00	26.13	0 00:21	0.000	0.307
L14055	JUNCTION	11.05	40.04	0 00:15	0.129	0.626
L14141	JUNCTION	0.00	38.38	0 00:47	0.000	17.482
L14142	JUNCTION	5.03	35.31	0 00:41	0.059	17.498
L14143	JUNCTION	7.08	46.72	0 00:47	0.081	17.558
L14146	JUNCTION	0.00	1.86	0 00:18	0.000	0.001
L14151	JUNCTION	17.84	56.45	0 00:15	0.196	1.174
L14152	JUNCTION	26.51	78.82	0 00:15	0.309	1.384
L14999	JUNCTION	0.00	79.06	0 00:15	0.000	1.384
L14JB145	JUNCTION	0.00	104.51	0 00:13	0.000	18.937
L14JB2	OUTFALL	0.00	80.00	0 00:10	0.000	18.941
Unknown	OUTFALL	0.00	0.00	0 00:00	0.000	0.000
L14PS1	STORAGE	0.00	97.78	0 00:12	0.000	18.941
Park	STORAGE	0.00	36.44	0 00:21	0.000	0.402
SBroadwayPond	STORAGE	527.49	527.49	0 00:18	17.526	22.175
SurgePond	STORAGE	0.00	281.94	0 00:31	0.000	4.830

Node Surcharge Summary

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
K14944	JUNCTION	23.30	7.774	1.426
L14042	JUNCTION	0.21	0.235	0.025
L14053	JUNCTION	0.25	1.247	4.063
L14146	JUNCTION	0.34	1.686	2.224
L14999	JUNCTION	0.42	3.706	2.804
L14JB145	JUNCTION	0.53	5.963	2.887
L14PS1	STORAGE	0.59	7.758	4.462
SurgePond	STORAGE	18.40	7.121	2.879

Node Flooding Summary

No nodes were flooded.

Storage Volume Summary

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	E&I Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS
L14PS1	0.087	2	0	3.289	65	0 00:24	80.00
Park	4.852	2	0	51.028	22	0 00:41	12.31
SBroadwayPond	469.350	46	0	846.705	82	0 02:06	290.82
SurgePond	372.935	42	0	642.288	73	0 02:09	30.43

Outfall Loading Summary

Recommended Improvements.rpt

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
L14JB2	99.83	30.19	80.00	18.941
Unknown	0.00	0.00	0.00	0.000
System	49.92	30.19	80.00	18.941

Link Flow Summary

Link	Type	Maximum Flow CFS	Time of Max Occurrence days hr:min	Maximum Veloc ft/sec	Max/ Full Flow	Max/ Full Depth
Commercial_Sag	CHANNEL	0.00	0 00:00	0.00	0.00	0.17
E.Cromwell	CHANNEL	0.00	0 00:00	0.00	0.00	0.27
Link-13	CONDUIT	15.25	0 00:13	8.63	2.20	1.00
Link-14	CONDUIT	10.20	0 00:12	10.53	0.24	1.00
Link-16	CONDUIT	26.13	0 00:21	16.46	0.55	0.74
Link-17	CONDUIT	10.94	0 00:24	6.52	1.35	1.00
Link-20	CONDUIT	281.94	0 00:31	15.76	0.66	1.00
N.Commercial	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
N.William	CHANNEL	12.60	0 00:24	1.39	0.46	0.66
Pacific	CHANNEL	0.00	0 00:00	0.00	0.00	0.17
Pacific_William	CHANNEL	1.28	0 02:07	1.54	0.01	0.20
S.Commercial_A	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
S.Commercial_B	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
S.William	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
SDP1	CONDUIT	34.06	0 02:07	6.94	2.73	1.00
SDP10	CONDUIT	49.86	0 00:47	8.45	0.45	1.00
SDP11	CONDUIT	15.97	0 00:12	5.08	0.92	1.00
SDP12	CONDUIT	21.69	0 00:36	7.13	1.08	1.00
SDP13	CONDUIT	30.56	0 00:33	6.23	1.10	1.00
SDP14	CONDUIT	38.61	0 00:15	5.46	1.63	1.00
SDP15	CONDUIT	52.31	0 00:15	7.46	1.87	1.00

Recommended Improvements.rpt

SDP16	CONDUIT	79.06	0	00:15	10.18	0.46	1.00
SDP17	CONDUIT	73.36	0	00:13	9.73	0.60	1.00
SDP19	CONDUIT	3.59	0	00:38	4.80	2.90	1.00
SDP2	CONDUIT	32.78	0	01:23	6.68	2.35	1.00
SDP20	CONDUIT	23.38	0	00:15	8.57	1.65	0.83
SDP21	CONDUIT	14.67	0	00:21	4.67	1.00	1.00
SDP22	CONDUIT	3.25	0	00:25	4.42	2.64	0.89
SDP24	CONDUIT	44.93	0	00:40	14.30	5.74	1.00
SDP25	CONDUIT	2.07	0	00:42	2.63	1.28	1.00
SDP26	CONDUIT	1.86	0	00:18	2.11	0.51	1.00
SDP27	CONDUIT	0.57	0	00:27	1.19	0.08	0.97
SDP28	CONDUIT	97.78	0	00:12	16.65	0.44	1.00
SDP3	CONDUIT	32.78	0	02:06	6.68	3.00	1.00
SDP4	CONDUIT	32.78	0	02:06	6.68	2.43	1.00
SDP5	CONDUIT	32.78	0	02:07	6.68	2.13	1.00
SDP6	CONDUIT	32.78	0	02:08	6.68	5.01	1.00
SDP7	CONDUIT	34.58	0	00:41	7.04	1.40	1.00
SDP8	CONDUIT	38.38	0	00:47	8.12	1.77	1.00
SDP9	CONDUIT	46.72	0	00:47	8.24	0.22	1.00
W.Garfield_A	CHANNEL	8.41	0	00:28	0.77	0.21	0.90
W.Garfield_B	CHANNEL	0.00	0	00:00	0.00	0.00	0.40
W.Garfield_Junct	CHANNEL	38.67	0	00:39	3.32	0.25	0.78
William_1A	CHANNEL	11.20	0	00:27	1.58	0.22	0.66
William_1B	CHANNEL	0.00	0	00:00	0.00	0.00	0.39
William_Pacific	CHANNEL	0.00	0	00:00	0.00	0.00	0.10
PUMP_CT-3500-135_02	PUMP	80.00	0	00:10		1.00	
EmergencySpillway	WEIR	0.00	0	00:00			0.00

Flow Classification Summary

Conduit	Adjusted /Actual Length	--- Dry	Fraction of Up Dry	Time in Down Dry	Flow Sub Crit	Class Sup Crit	---- Up Crit	Down Crit	Avg. Froude Number	Avg. Flow Change
Commercial_Sag	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
E.Cromwell	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Link-13	1.00	0.00	0.00	0.00	0.11	0.00	0.00	0.89	0.02	0.0002
Link-14	1.00	0.00	0.52	0.00	0.46	0.02	0.00	0.00	0.04	0.0000

Recommended Improvements.rpt

Link-16	1.00	0.00	0.88	0.00	0.09	0.03	0.00	0.00	0.10	0.0002
Link-17	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.57	0.0001
Link-20	1.00	0.00	0.00	0.00	0.98	0.01	0.00	0.00	0.04	0.0001
N.Commercial	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
N.William	1.00	0.97	0.00	0.00	0.01	0.00	0.00	0.02	0.01	0.0000
Pacific	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
Pacific_William	1.00	0.87	0.02	0.00	0.00	0.00	0.00	0.11	0.12	0.0000
S.Commercial_A	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
S.Commercial_B	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
S.William	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
SDP1	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0002
SDP10	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	1.23	0.0002
SDP11	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.15	0.0005
SDP12	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.24	0.0001
SDP13	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.96	0.20	0.0001
SDP14	1.00	0.00	0.00	0.00	0.12	0.00	0.00	0.88	0.11	0.0001
SDP15	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.64	0.0001
SDP16	1.00	0.00	0.00	0.00	0.03	0.00	0.97	0.00	0.14	0.0000
SDP17	1.00	0.00	0.00	0.00	0.87	0.02	0.00	0.11	0.34	0.0000
SDP19	1.00	0.01	0.96	0.00	0.02	0.00	0.02	0.00	0.01	0.0003
SDP2	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0002
SDP20	1.00	0.00	0.00	0.00	0.97	0.03	0.00	0.00	0.05	0.0001
SDP21	1.00	0.00	0.91	0.00	0.09	0.00	0.00	0.00	0.02	0.0001
SDP22	1.00	0.98	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.0001
SDP24	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.97	0.08	0.0007
SDP25	1.00	0.00	0.00	0.00	0.04	0.00	0.00	0.95	0.07	0.0002
SDP26	1.00	0.02	0.00	0.00	0.03	0.00	0.00	0.96	0.02	0.0002
SDP27	1.00	0.02	0.00	0.00	0.02	0.00	0.00	0.95	0.02	0.0001
SDP28	1.00	0.00	0.00	0.00	0.03	0.00	0.00	0.96	2.46	0.0001
SDP3	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0002
SDP4	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0002
SDP5	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0002
SDP6	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0004
SDP7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.01	0.0001
SDP8	1.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.60	0.0002
SDP9	1.00	0.00	0.00	0.00	0.03	0.00	0.96	0.00	1.05	0.0001
W.Garfield_A	1.00	0.98	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.0000
W.Garfield_B	1.00	0.98	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
W.Garfield_Junct	1.00	0.98	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.0000
William_1A	1.00	0.98	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.0000
William_1B	1.00	0.99	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
William_Pacific	1.00	0.89	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0000

 Conduit Surcharge Summary

Conduit	----- Both Ends	Hours Full Upstream	----- Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
Link-13	0.55	0.55	0.55	0.35	0.55
Link-14	4.03	4.03	4.03	0.01	0.01
Link-17	0.35	0.35	0.35	0.98	0.04
Link-20	18.40	18.40	18.41	0.01	0.01
SDP1	23.55	23.55	23.55	23.47	23.14
SDP10	0.52	0.52	0.52	0.01	0.01
SDP11	0.47	0.47	0.47	0.01	0.01
SDP12	0.48	0.48	0.48	0.06	0.10
SDP13	0.49	0.49	0.50	0.15	0.18
SDP14	0.50	0.50	0.50	0.57	0.49
SDP15	0.47	0.47	0.47	0.59	0.47
SDP16	0.42	0.42	0.42	0.01	0.01
SDP17	0.47	0.47	0.47	0.01	0.01
SDP19	0.32	0.32	0.32	0.37	0.17
SDP2	23.52	23.52	23.52	23.40	0.01
SDP20	0.01	0.01	0.01	0.37	0.01
SDP21	0.20	0.20	0.20	0.05	0.13
SDP22	0.01	0.01	0.01	0.32	0.01
SDP24	0.41	0.41	0.41	0.47	0.32
SDP25	0.42	0.42	0.42	0.01	0.02
SDP26	0.34	0.34	0.34	0.01	0.01
SDP28	0.55	0.55	0.55	0.01	0.01
SDP3	23.30	23.30	23.30	23.46	22.88
SDP4	23.49	23.49	23.49	23.65	23.29
SDP5	23.73	23.73	23.73	23.58	23.55
SDP6	23.07	23.07	23.07	23.88	23.07
SDP7	23.51	23.51	23.51	16.97	17.22
SDP8	0.56	0.56	0.57	19.92	0.01
SDP9	0.47	0.47	0.48	0.01	0.01

Pumping Summary

Pump	Percent Utilized	Number of Start-Ups	Min Flow CFS	Avg Flow CFS	Max Flow CFS	Total Volume 10^6 gal	Power Usage Kw-hr	% Time Off Pump Curve	

								Low	High
PUMP_CT-3500-135_02	99.82	1	0.00	30.19	80.00	18.941	1435.23	0.0	100.0

Analysis begun on: Tue Jan 03 09:52:56 2017

Analysis ended on: Tue Jan 03 09:52:59 2017

Total elapsed time: 00:00:03