

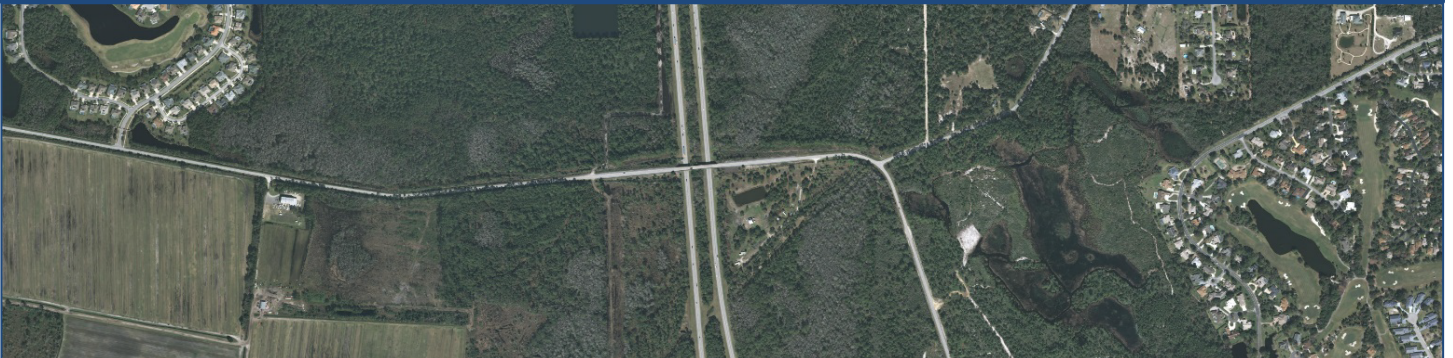
# Pond Siting Report

## Florida Department of Transportation

ETDM Number: 14193

Financial Management No.: 436292-1-22-01

Federal Aid Project Number: NA



Prepared for:  
FDOT District 5  
719 South Woodland Boulevard,  
DeLand, Florida 32720

October 2020

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# Pond Siting Report

## Florida Department of Transportation

I hereby certify that I am a registered professional engineer in the State of Florida practicing engineering with STANTEC CONSULTING SERVICES INC and that I have supervised the preparation of and approve the analysis, findings, opinions, conclusions and technical advice hereby reported for:

PROJECT: Pioneer Trail (CR 4118) Interchange PD&E Study from Williamson Boulevard to Turnbull Bay Road in Volusia County, Florida  
ETDM Number: 14193  
Financial Management No.: 436292-1-22-01  
Federal Aid Project Number: NA

The engineering work represented by this document was performed through the following duly authorized engineering business:

STANTEC CONSULTING SERVICES INC  
777 S Harbour Island Boulevard Suite 600  
Tampa, Florida 33602-5729  
Telephone: 813-221-1981

This report provides the results of a summary of data collection efforts, and limited calculation to identify the project preferred alternative for the Project Development and Environmental Study (PD&E) for Pioneer Trail from Williamson Boulevard to Turnbull Bay Road. I acknowledge that the procedures and references used to develop the results contained in this report are standard to the professional practice of hydrologic analysis and hydraulic engineering as applied through the professional judgment and experience. This document is for planning purposes only and is not to replace any effort required for final design.

Any engineering analysis, documents, conclusions or recommendations relied upon from other professional sources or provided with responsibility by the client are referenced accordingly in the following report.

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C § 327 and a Memorandum of Understanding dated December 14, 2016 and executed by FHWA and FDOT.

FLORIDA REGISTERED ENGINEER:  
Dominique H. Rudajev, Professional Engineer, License No. 61829

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## 1.0 INTRODUCTION

The project is evaluating three interchange alternatives on Interstate 95 (I-95) at Pioneer Trail (CR 4118) near Milepost (MP) 19.032 located in Volusia County, Florida. The proposed interchange is located between two existing interchanges on I-95 with SR 421 at MP 23.300 to the north and with SR 44 at MP 16.287 to the south. The existing land uses within and around the project are primarily agricultural with undeveloped land. **Figure 1 in Appendix A** shows the location of the proposed interchange.

The FDOT is proposing to add capacity to Pioneer Trail by widening the current roadway from a two-lane undivided to a four-lane divided urban arterial by adding one new lane in each direction. The proposed roadway along this segment of Pioneer Trail will consist of two 12-ft travel lanes, 5-ft bike lanes and an 8-ft sidewalk on the north side and 5-ft sidewalk on the south side of the roadway.

Each interchange alternative was configured with the same proposed typical section for the Pioneer Trail Road segment within the limits of the study. Minor widening of I-95 was recommended to accommodate acceleration and deceleration lanes for the ramps as needed. The project will also involve horizontal realignment of Pioneer Trail near Turnbull Bay Road. The existing wet pond located in the northwest quadrant of the interchange will be modified to accommodate for the additional impervious area along Pioneer Trail.

The purpose of the study is to identify the preferred design alternative for an interchange at I-95 and Pioneer Trail. The recommended stormwater management system was identified for each interchange build alternative. The alternatives evaluated in this Pond Siting Report comply with procedures and policies of the regulatory agencies outlined herein. In conjunction with those improvements, various stormwater management systems were considered that will meet established stormwater design criteria as indicated in **Section 4.0**.

The project is within the jurisdiction of the St. Johns River Water Management District (SJRWMD). Portions of the project area are within the 100-year floodplain. The vertical datum used for this evaluation is the North American Vertical Datum of 1988 (NAVD 88). To calculate elevations that reference NAVD 88 from elevations that reference NGVD 29 within the project limits, subtract 1.16 feet from the elevations that reference NGVD 29.

### 1.1 PROJECT DESCRIPTION

Three interchange Alternatives along with the widening of a segment of the Pioneer Trail Road were evaluated: Tight Diamond Interchange, Parclo 1 Interchange (1 Loop), and Parclo 2 Interchange (2 Loops). This Pond Siting Report documents the information



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acquired and engineering analysis conducted related to preliminary drainage evaluations.

To assess the type, size, and location of the required stormwater management facilities and the overall stormwater management system for the new interchange alternatives, the following steps were taken:

1. Review existing drainage patterns, permits and other drainage related data on the project site.
2. Define drainage basins and basin characteristics.
3. Estimate treatment/attenuation requirements by assessing soils and land use areas.
4. Maximize stormwater management capacity within proposed interchange infield areas.
5. Identify any need and location of offsite pond requirements within parcels impacted by the interchange while minimizing impacts.

## 1.2 PURPOSE

The purpose of this report is to determine the most feasible location to site stormwater management and floodplain compensation facilities to permit a proposed interchange at Pioneer Trail Road and I-95. To achieve this purpose, the infield areas of the interchange alternatives were utilized to the maximum capacity for the stormwater management requirements to minimize the right-of-way needed for offsite stormwater facilities. If required, offsite facilities will be located within the same parcels impacted by the interchange alternative.

## 1.3 PIONEER TRAIL ROAD PROPOSED TYPICAL SECTIONS

The Build Alternatives propose to widen Pioneer Trail Road from the existing undivided 2-lanes road to a 4-lanes divided urban arterial. Generally, the proposed section for this segment of Pioneer Trail will consist of two 12-ft travel lanes, 5-ft bike lane and an 8-ft sidewalk in each direction. A 22-ft median separates the eastbound and the westbound travel lanes as shown in **Typical Section No. 2** in **Appendix B**. A six-lane section is also provided for deceleration and acceleration lanes to and from the ramps as needed as shown in **Typical Section No. 3** in **Appendix B**.

## 1.4 PIONEER TRAIL BRIDGE AND I-95 TYPICAL SECTIONS

I-95 was also widened to accommodate acceleration and deceleration lanes for ramps as needed. Refer to **Typical Section No. 6** in **Appendix B** for the I-95 typical section. In addition, the Pioneer Trail Road bridge over I-95 will be reconstructed to





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accommodate the through travel lanes and two left turn lanes from eastbound to northbound and from westbound to southbound. Refer to **Typical Section No. 9 in Appendix B** for the bridge typical section

### 1.5 BUILD ALTERNATIVE 1: TIGHT DIAMOND INTERCHANGE

Interchange Build Alternative 1 features a Tight Diamond configuration that makes provisions for all movements between Pioneer trail Road and I-95. In general, a 15-ft one lane ramp has been deemed adequate to move the traffic volumes at an acceptable Level of Service. Ramp terminals feature two or three lanes as warranted by traffic.

**Advantages** • Compatible with Williamson Road (meets signal spacing) • Single lane on and off ramps from the north and south • 4 lane overpass on Pioneer Trail accommodates future expansion • Reduces interchange footprint. **Weaknesses** • The replacement bridge requires phased construction or a lengthy detour to maintain access to existing development • Signal controlled intersections at ramp terminals • Requires right of way (ROW) acquisition in all four quadrants.

### 1.6 BUILD ALTERNATIVE 2: PARCLO 1 INTERCHANGE (1 LOOP)

Interchange Build Alternative 2 features a Partial Cloverleaf alternative concept similar to a Diamond Interchange with a single-lane loop ramp to serve southbound-to-eastbound and westbound off movements in the southwest quadrant of the interchange. Like Alternative 1, Alternative 2 makes provision for all movements between Pioneer trail Road and I-95. In general, a 15-ft one lane ramp has been deemed adequate to move the traffic volumes at an acceptable Level of Service. Ramp terminals features two or three lanes as warranted by traffic.

**Advantages** • The Interchange Justification Report (IJR) recommended concept, avoids IJR re-evaluation • Minimizes impacts to the wetlands in the northeast quadrant • Minimizes impacts to the transmission line in the northwest quadrant • 4 lane overpass on Pioneer Trail accommodates future expansion. **Weaknesses** • Requires signalization of the northbound ramp intersection while the southbound ramp intersection operates under stop control • There is an additional cost associated with the construction of the loop ramp • Large ROW footprint.

### 1.7 BUILD ALTERNATIVE 3: PARCLO 2 INTERCHANGE (2 LOOPS)

Interchange Build Alternative 3 features a Partial Cloverleaf alternative concept with single-lane loop ramps serving southbound-to-eastbound movement in the southwest quadrant of the interchange and northbound off movements in the northeast quadrant. Like Alternative 2, Alternative 3 makes provision for all movements between Pioneer trail Road and I-95. In general, a 15-ft one lane ramp has been deemed



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adequate to move the traffic volumes at an acceptable Level of Service. Ramp terminals features two or three lanes as warranted by traffic.

**Advantages** • Minimal impacts to property on the southeast quadrant • Avoids the transmission line in the northwest quadrant • 4 lane overpass on Pioneer Trail accommodates future expansion • Eliminates adding box culvert for canal in southeast quadrant. **Weaknesses** • Impacts to wetlands in the northeast quadrant • There is an additional cost associated with the construction of the loop ramps • Large ROW footprint.

## 2.0 KEY ENVIRONMENTAL ISSUES

### 2.1 GEOTECHNICAL

On May 1, 2020 Geotechnical and Environmental Consultants, Inc. (GEC) provided a 30% Report of Roadway Soil Survey for the I-95 At Pioneer Trail Interchange Project. The report describes their exploration procedures, exhibits the data obtained and presents preliminary conclusions and recommendations regarding the geotechnical engineering aspect for this project.

GEC obtained general information on soil and groundwater conditions at the project site, reviewed available data including USGS Quadrangle Map, the Natural Resources Conservation Service (NRCS) Soil Survey of Volusia County, previous geotechnical data from published sources and from previous GEC investigation dated June 13, 2019. Based on their review of the USGS Samsula, Florida Quadrangle map, the existing ground surface elevation at the project site ranges from +25 to +27 feet NGVD. The project site is predominately occupied by low-lying, marsh/swamp features. Refer to **Figures 2, 3, 4** in **Appendix A** for the NRCS Mapped Soils Units. Refer to **Figures 5, 6** and **7** in **Appendix A** for the USGS Topographical Quadrangle Maps.

Seasonal high groundwater levels were estimated to range from Above Ground Surface (AGS) to 4 feet below grade. GEC defines estimated seasonal high groundwater levels as groundwater levels that are anticipated at the end of the wet season during a “normal rainfall” year under pre-development site conditions. “Normal rainfall” year as a year in which rainfall quantity and distribution were at or near historical averages

### 2.2 SOVEREIGN SUBMERGED LAND

There are no sovereign submerged lands identified within the project limits.



## 2.3 PROTECTED SPECIES AND HABITAT

A preliminary database review did not identify any state or federally listed species directly within the project location. Regionally, the project corridor has documented occurrences of Florida scrub-jay and nesting bald eagles. The US Fish and Wildlife Service (USFWS) designated Consultation Area for Florida scrub jay extends into the limits of the study corridor. In addition, the properties east of I-95 and within the project area are listed in Volusia County Environmental Management Office as potential scrub-jay habitat data. A preliminary site review did identify scrubby flatwood habitat that currently appears too overgrown to support scrub-jays. While the corridor does have the potential to contain the eastern indigo snake (EIS) the closest documented occurrence is over seven miles to the southeast on New Smyrna Beach coastal dunes. We expect that new guidance from USFWS regarding effect determinations for this species will be available during the study period that will utilize the new EIS habitat model. A preliminary evaluation of the habitat model indicates that there is a moderate probability of EIS occurring in the region. While it is not anticipated that the project will involve any of the above-mentioned species, field reviews by experienced ecologists will confirm no project impact as this area does not occur within the core foraging area of wood stork colonies, affects to this species are not anticipated.

## 2.4 CULTURAL RESOURCES

A *Cultural Resource Assessment Survey (CRAS, May 2019)* was completed as part of this PD&E Study. The CRAS included archaeological and architectural survey within the Area of Potential Effect (APE). The APE for this project was defined as the existing and proposed right of way for the interchange alternatives with a buffer extending to the back or side of property lines or a distance no greater than 330 feet. The APE also included proposed pond sites with a 100-foot buffer.

The archeological survey included excavation of forty shovel tests within the I-95 at Pioneer Trail APE. No artifacts or archeological sites or occurrences were identified within the APE.

The architectural survey resulted in the identification and evaluation of two previously recorded historic linear resources: Fort Kingsbury to New Smyrna Road and Pioneer Trail. Both resources are segments used as pioneer trails during the settlement and development of Volusia County during the Seminole Wars and follow the same route in the project APE. Although they are locally significant under the National Register of Historic Places (NRHP) criterion A, they lack the necessary historic integrity to convey significance and therefore, were recommended ineligible for listing in the NRHP based on the results of the current survey.

FDOT bridge number 790066 (Pioneer Trail overpass) over I-95 is a concrete stringer bridge built in 1969. The bridge is a post-1945 concrete bridge excluded from Section



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106 consideration, and as such, the bridge was not recorded or evaluated in the present study.

## 2.5 CONTAMINATION

A Contamination Screening Evaluation Report (CSER) has been prepared and reviewed by FDOT as part of this PD&E. Level II Impact to Construction Assessments (ICAs) were recommended by Mr. Randy Stafford, the FDOT District 5 Contamination Impact Coordinator as follows:

- ICAs are recommended for Site 1, the Tornelli Property in the SE quadrant of the project; the two plant nursery locations, burn mound, and the truck parking area should be assessed for chemicals of concern.
- The USGS well(s) in this quadrant should be investigated to determine if they still exist and if they will need to be protected or accommodated during construction activities.

## 2.6 CULTURAL FEATURES AND COMMUNITY SERVICES

Cultural features and community services were identified through field review and desktop analysis of GIS data. The Pioneer Trail corridor in the immediate vicinity of the Interstate is largely undeveloped; therefore, there are no existing cultural features or community facilities along the study roadway segment between Williamson Boulevard and Turnbull Bay Road. The existing interchanges at SR 421 and SR 44 have some existing community facilities and cultural sites such as medical facilities/hospitals, fire, police and rescue services, VFW veterans' organization post, religious centers, and other types of cultural features.

**Parks and Recreational Facilities:** Several recreational facilities exist surrounding the project study area; these are associated with private residential communities and include: Venetian Bay Golf Club and Cypress Head Golf Club. No public parks were identified in the immediate vicinity of the project study area.

**Schools:** The schools in closest proximity to the project study area include: Cypress Creek Elementary and Spruce Creek High. Both are located near the I-95 and SR 421 interchange.

**Religious Institutions:** Religious facilities exist in the project study area include Restoration Church and Port Orange Christian Church near the SR 421 interchange and Venetian Bay Methodist Church and Kingdom Hall of Jehovah's Witnesses near the SR 44 interchange.

**Medical and Emergency Health:** Numerous medical facilities with varying levels of care and service exist near the SR 421 interchange. Advent Health New Smyrna Beach



Medical Plaza is located adjacent to the southeast quadrant of I-95 and SR 44. No major emergency facilities were identified in the study area.

**Fire, Rescue, & Police:** The New Smyrna Beach Fire Department's Station 51 is located just west of the I-95 and SR 44 interchange. No other fire or police services were identified in the project study area.

**Other Public Buildings/Facilities:** No other public/municipal buildings or facilities were identified in the project study area.

**Evacuation Routes/Emergency Services:** The Florida Division of Emergency Management's State Emergency Response Team (SERT) provides disaster assistance to Florida residents. FSERT had identified two areas within and surrounding the project study area; these include Spruce Creek which is designated as hurricane evacuation Zone A and the area immediately surrounding the Spruce Creek crossing at I-95 designated as Zone E. The designated evacuation routes for this area include I-95, SR 421, Pioneer Trail and SR 44.

## 2.7 WETLAND AND SURFACE WATER IMPACTS

The soil survey map indicates wetlands are present to some degree in all four quadrants of the intersection, which include a surface layer Samsula Muck with a typical thickness of about 3 feet. However, if relic sinkholes are present within the wetlands, muck depths could be much deeper. The geotechnical evaluation will be focused on evaluating shallow groundwater conditions and muck depths, which impact selection of the preferred interchange design alternative. Because the wetlands within the project study area occur as large interconnected mosaic, avoidance of direct impacts will not be possible. The potential for impacts to these wetlands have been evaluated based upon the three interchange alternatives. Any adverse impacts to the wetlands will need to be mitigated. Refer to **Figure 8** in **Appendix A** for the existing wetlands and surface waters at the site. Refer to **Figures 9, 10** and **11** in **Appendix A** for the potential impacts to these wetlands and surface water impacts associated with each alternative.

A large ditch flows through the corridor that is a tributary to Spruce Creek approximately two miles downstream. This system was channelized prior to 1958 and has mature native vegetation (pines and cabbage palm) that have colonized the spoil banks.

## 2.8 FLOODPLAIN IMPACTS

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Number 12127C0517J dated February 19, 2014 for Volusia County was used to identify the floodplain and floodway limits associated with this project.





FEMA Flood Zone A intermittently encroaches throughout the project area. Special Flood Hazard Zone A is defined as "No base flood elevation determined". Zone A are areas that have a 1% probability of occurring (also known as the "100-year floodplain"), and where predicted flood water elevations have not been established. Properties in Zone A are at high risk of flooding under the National Flood Insurance Program (NFIP).

Using the USGS Quadrangle (Quad) Map, existing permits and GIS contour data, the flood stage for each occurrence of Flood Zone A within the project limits were estimated.

Most of the encroachments will be longitudinal. However, locations near the east side of the project is where transverse encroachments may occur. Refer to **Figures 12, 13, and 14** in **Appendix A** for the Floodplain Impacts for all 3 Alternatives.

## 3.0 SITE INFORMATION

### 3.1 EXISTING ROADWAY

The general area of influence (AOI) of the study extends to the SR 44 interchange to the south and to the SR 421 interchange to the north and includes the roadways described below. The Drainage analysis will focus on the direct area of the new interchange.

**Interstate 95:** Interstate 95 (I-95) is functionally classified as an urban principal arterial interstate and is part of Florida's Strategic Intermodal System (SIS). Within the AOI, I-95 is a six-lane median divided limited access facility from south of SR 44 to the north of SR 421. The posted speed limit is 70 miles per hour (mph) within the study area. The existing stormwater management system running along I-95 consist of median swales that collects the runoff from the road and conveys it outside using drainage culverts.

**Pioneer Trail (County Road 4118):** Pioneer Trail is a county-maintained roadway that is functionally classified as an urban major collector. Within the study area, Pioneer Trail is a two-lane undivided roadway that has an east/west alignment and posted speed limit of 45 mph west of Turnbull Bay Road with ditches on both sides. At the junction of Turnbull Bay Road, Pioneer Trail turns and follows a northwest to southeast alignment with a decreased speed limit of 40 mph. The existing stormwater management system running along Pioneer Trail consist of swales that collect the runoff from the road and conveys it toward multiple existing ponds. West of I-95 we have a wet pond running along Pioneer Trail on the North side of the road. East of I-95 we have 3 wet ponds located at the intersection of Turnbull Bay Rd. All the stormwater runoff is collected in the roadside swales and routed to existing ponds using drainage culverts, then discharges into an unnamed canal that connects into Spruce Creek which is designated as an Outstanding Florida Water.



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**Turnbull Bay Road:** Turnbull Bay Road is a two-lane urban collector with a posted speed of 30 mph. It is oriented eastward from the junction with Pioneer Trail Road and serves several residential subdivisions in the area.

**Williamson Boulevard (County Road 4009):** Williamson Boulevard is a county-maintained roadway that is functionally classified as an urban principal arterial-other. Within the study area, Williamson Boulevard is a four-lane divided roadway that generally follows a north/south alignment that parallels the west side of I-95. The posted speed limit is 35 mph near SR 421 and increases to 45 mph south of Airport Road. The road is discontinuous in the project study area, extending from north of SR 421 and terminating at Pioneer Trail. Near the south end of the study area, Williamson Boulevard extends from approximately one-half mile north of SR 44 to just south of SR 44, providing access to recently developed commercial properties.

**SR 44:** Within the study area, SR 44 is a four-lane divided rural principal arterial to the west and is classified as an urban principal arterial to the east of the study section (MP 22.463 to 25.578). SR 44 extends in an east-west orientation. SR 44 forms a diamond-type interchange with a southbound exit (loop ramp) with I-95 located approximately 2.74 miles south of Pioneer Trail. The posted speed limit varies from 55 mph to 65 mph within the study area.

**SR 421/CR 421:** SR 421 is a six-lane divided urban principal arterial to the east of Williamson Boulevard and continues west as CR 421. CR 421 is a four-lane divided urban arterial to Summer Trees Road which narrows down further to a two-lane arterial to the west. SR 421 forms a diamond-type interchange with I-95 located approximately 4.26 miles north of Pioneer Trail. The posted speed limit varies between 45 mph to 50 mph within the study area.

**Interchanges:** There are currently two interchanges located along I-95 within the project study area as described below:

I-95 at SR 44 (Mile Post 16.287) is a diamond-type interchange with a southbound to eastbound SR 44 loop ramp. All ramps feature single lane ramps. The northbound ramp terminal intersection is signalized while both the southbound ramp intersections operate under stop control. The FDOT, the City of New Smyrna Beach, and Volusia County have evaluated operating conditions and made improvements to the I-95/SR 44 interchange to address the increase in congestion that has occurred in this area over the years.

I-95 at SR 421 (Mile Post 23.300) is a diamond-type interchange with single-lane ramps on all four quadrants of the interchange. Both ramp terminal intersections are signalized. The FDOT, the City of Port Orange, and Volusia County have evaluated operating conditions and made improvements to the I-95/SR 421 interchange to address the increase in congestion that has occurred in this area over the years.

### 3.2 LAND USE

The current land use along the project corridor is mainly open space/vacant land and residential.



The project study area encompasses a mixture of land use classifications:

- Agricultural
- Conservation
- Mobile Home
- Mixed Planned Unit Development
- Planned Unit Development
- Residential
- Recreational Open Space
- Open Space

Land use categories are listed according to the Adopted July 2010 LUP for City of Port Orange Community Development, Florida. Refer to **Figure 15 in Appendix A** for the existing land use in the City of Port Orange.

### 3.3 UTILITY IMPACTS

All three build alternatives will likely impact the FPL overhead lines located at the northwest quadrant. These facilities may have to be relocated. Determination of utility impacts will be determined in the Design phase of the project.

## 4.0 DESIGN CRITERIA

The design of stormwater management facilities for this project is governed by the rules and criteria set forth by the St. Johns River Water Management District (SJRWMD), Florida Department of Environmental Protection (FDEP), Volusia County and the Florida Department of Transportation (FDOT). The project occurs in SJRWMD Regulatory Mitigation Basin 17 (Halifax River). As per SJRWMD permit criteria, unavoidable impacts to wetlands are required to be offset (in part) within the basin where the impacts occur. Two mitigation banks occur in Basin 17 that would likely provide the most cost-effective way to offset these impacts. Stantec staff provided permitting support to Volusia County for intersection improvements of Pioneer Trail and Turnbull Bay Road within the project study area. Direct project experience confirmed that the project does not occur within the limits of the SJRWMD Riparian Habitat Protection Zone (RHPZ) which requires additional mitigation considerations.

The project area is within the Spruce Creek Hydrologic basin and will drain to the Spruce Creek, an impaired water body for nutrients and an Outstanding Florida Water (OFW). See design criteria 1. B for OFW criteria and design criteria 1.D for impaired water body criteria.

The following design criteria apply to the proposed ponds for this project which are proposed to be wet detention ponds.



## 1. STORMWATER TREATMENT

- A. Wet Detention: The greater of; Treatment of 1" of runoff from the contributing area or 2.5" times the percent impervious area.
- B. Projects draining to Outstanding Florida Waters add an additional 150% of the treatment volume.
- C. Treatment Volume Recovery: For wet Detention: The outfall structure shall be designed to drawdown one-half the required treatment volume within 24 and 30 hours following a storm event, but no more than one half of the required treatment volume will be discharged prior to 24 hours.
- D. Nutrient Loading: Discharge to FDEP designated impaired water. The required level of average annual load reduction is whichever is the least: 85% or post-development = pre-development.
- E. Skimmers: Systems which receive stormwater from areas with a greater than 50 percent impervious area (excluding water bodies) must include a skimmer, baffle, grease trap or other mechanism.

## 2. STORMWATER ATTENUATION

- A. Open Basin (Positive Outfall):
  - a. Post-development peak discharge rate is not to exceed pre-development peak discharge rate.
  - b. SJRWMD – 25-year, 24-hour and mean annual storm events
- B. Attenuation Volume Recovery: For wet Detention: Recovery of SJRWMD 25-year, 24-hour storm event within 14 days

## 3. POND GEOMETRY

- A. Slopes (Wet Detention):
  - a. Side slopes 1:6 (Std.) 1:4 (Max>) to 2' below control elevation
  - b. Maintenance Berm: 20' (Min.) measured from control elevation to right of way line. Maintenance Berm shall be at least 15-feet with a slope of 1:8 or flatter.
  - c. 1-foot free board below low point of maintenance berm to D.H.W.
  - d. Corners of ponds shall be rounded to provide an acceptable turning radius for maintenance equipment.
  - e. Pond ratio at least 2:1 (length:width)
- B. Pond Depth (Wet Detention):
  - a. Maximum pond depth of 12 feet



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b. Mean depth between 2 and 8 feet

#### **4. FLOODPLAIN**

A. Demonstrate no adverse impacts to the 100-year flood stage

#### **5. BASE CLEARANCE**

A. Freeways and Rural Multilane Mainline; required clearance 3ft

B. Ramps; required clearance 2ft

#### **6. DITCHES AND SWALES**

A. Design frequency for roadside, median and interceptor ditches or swales is 10 years

B. Design frequency for outfall ditches and canals is 25 years

C. Minimum slope for ditches where positive flow conditions are required is 0.05%

#### **7. REFERENCES**

A. SJRWMD Environmental Resource Permit Applicant's Handbook Vol. I (6/2018)

B. SJRWMD Permit Information (6/2018)

C. FDOT Drainage Manual 2020

D. FDOT Drainage Design Guide 2020

### **4.1 EXISTING PERMITS**

Existing permits for the project are listed below:

A. FPL Pirolo Substation; FDEP Central District Permit No. 0296797-002-EI, Permit Issuance Date: April 23, 2018.

B. I-95 (SR 44 to I-4); SJRWMD Permit No. 4-127-118421-2, FPID: 406869-6, Permit Issuance Date: May 31, 2011.

C. Magnolia Pirolo Transmission Line; FDEP Central District Permit No. 64-298763-001, Permit Issuance Date: April 20, 2011.

D. Pioneer Trail Curve Realignment; SJRWMD Permit No. 40-127-103479-1, Permit Issuance Date: February 25, 2010.

E. Shell Pointe Colony; SJRWMD Permit No. 156663-1, Permit Issuance Date: June 20, 2019

F. Williamson Blvd South (Airport to Pioneer); SJRWMD Permit No. 134174-1; Permit Issuance Date: April 13, 2015.





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## 4.2 PROPOSED PERMITS

The study corridor is situated in Volusia County within the environmental regulatory jurisdiction of local, state and federal agencies. The following is a guideline of the environmental permitting requirements for the project and it is not intended to be all-inclusive.

**Florida Department of Environmental Protection (FDEP):** A Generic Permit for Stormwater Discharge from Construction Activities [National Pollutant Discharge Elimination System (NPDES)] Permit is required prior to construction. As part of the construction permit application, the permit plans will include a Stormwater Pollution Prevention Plan (SWPPP), Erosion Control Plan and a Notice of Intent (NOI).

**St. John River Water Management District (SJRWMD):** The proposed new interchange at I-95 and Pioneer Trail is located Volusia County within the Spruce Creek Hydrologic Basin and will require coordination and permitting with the SJRWMD. The following permits will be required from the SJRWMD:

A modification to the SJRWMD Individual Environmental Resource Permit (ERP) Permit Number 4-127-118421-2, will be required for impacts to wetlands and for the stormwater management plan.

A SJRWMD Water Use Permit for Dewatering is required for projects with proposed dewatering activities that do not meet the criteria for General Permit by Rule. During the Design phase of the project, the designer will be required to verify whether dewatering or water use will be needed to accomplish the work proposed. If project design requires dewatering, then the construction contractor will be required to obtain the necessary dewatering permit(s) as part of the construction means and methods. Coordination with SJRWMD will continue throughout the duration of the project.

**United States Army Corps of Engineers (USACE):** A USACE Section 404 Dredge and Fill Permit will be required for impacts to wetlands and other surface waters. The type of permit is expected to be an Individual Permit (IP).

**Florida Fish and Wildlife Conservation Commission (FWCC):** Commenting agency dealing with State listed threatened and endangered species on behalf of the SJRWMD for the ERP.

**U.S. Fish and Wildlife Service (USFWS):** Commenting agency dealing with Federally listed threatened and endangered species for the USACE Dredge and Fill Permit (IP).

**U.S. Environmental Protection Agency (EPA):** Generally, a commenting agency dealing with water quality.

**State Division of Historic Resources (DHR):** Commenting agency dealing with cultural resources for Federal and State permits.



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### 4.3 EXISTING DRAINAGE BASINS

The overall project area is relatively flat with slopes of 0.5%. There are some isolated upland areas where the slopes are between 1-3%. The western basins flow to the west and outfall to Spruce Creek through the Cypress head development and the eastern basins flow to the east through existing culverts under I-95 to a tributary of Spruce Creek.

The land use within the project is primarily undeveloped wooded and wetland areas. The existing portion of Williamson Boulevard is surrounded by single family residential, multifamily residential, and a golf course.

The properties adjacent to the corridor contain many depressions such that there is not a significant amount of offsite runoff flowing toward the road. The land that is sloping toward the road is primarily undeveloped, which results in a small amount of runoff toward the road. Any offsite stormwater is conveyed by means of grassed roadside swales and cross drains. There is a system of two cross drains, one under I-95 NB and one under I-95 SB, that convey on-site and off-site runoff under the roadway. The existing roadway median is comprised of low-quality wetlands. The existing cross drains discharge to low-lying wetlands before it ultimately discharges to Spruce Creek. There is one existing stormwater management facility which will need to be modified to account for the additional impervious area from the widening of Pioneer Trail. The bottom of this existing wet pond will be lowered from 18.86 to 16.5 ft in the proposed conditions.

The runoff at Pioneer Trail/Turnbull Bay Road intersection is collected inside the roadside ditches and drain into on-line wet detention facilities with control outfall structures to the existing unnamed canal and wetlands. The existing unnamed canal and wetlands drain to north to the Spruce Creek which diverts the collected runoff easterly to Strickland Bay and ultimately to Intercoastal Waterway.

### 4.4 PROPOSED CONDITIONS

Three alternative design concepts were developed for the proposed improvements to I-95 at Pioneer Trail. These interchange configurations were developed with consideration to engineering design elements, right of way impacts, environmental constraints, and construction costs.

The IJR identified two interchanges – a diamond interchange (Alternative 1) and a partial cloverleaf with a single lane loop ramp in the SW quadrant (Alternative 2). A third configuration – a modification of the partial cloverleaf with a second loop in the NE quadrant (Alternative 3) was proposed. Refer to **Appendix A** for the proposed Drainage Maps for all 3 Alternatives.

In the proposed conditions, runoff from the on-site drainage basins will be treated in stormwater management facilities before discharging to Spruce Creek. The median ponds along I-95 will remain the same as the predevelopment conditions. The existing



cross drains under I-95 and Pioneer Trail that previously conveyed on-site and off-site runoff under the roadway will need to be abandoned. The existing eastbound and westbound ditches will also be regraded to provide truck access to the FPL powerlines. Therefore, the off-site runoff will be diverted to the north via roadside ditches and discharge to the Cypress head to the east before it ultimately discharges to Spruce Creek.

A hydrologic model was prepared to simulate the existing and proposed conditions. The pre-development and post-development models were prepared using standard SCS runoff procedure and Advanced Interconnected Channel and Pond Routing (ICPR) version 4.04.00. To ensure the proposed discharge rate does not exceed the existing discharge rate, the proposed peak flow at the proposed discharge location was compared to the existing peak flow at the proposed discharge location. Modeled storms include the mean annual storm, and 25-year 24-hour storm. The design tailwater was the crown of the outfall pipe based on the existing permit. The tailwater elevation is higher than the estimated 100-year base flood elevation. The tailwater elevation will be confirmed via survey. **Appendix C** of this report contains the basin parameter calculations and ICPR modeling.

#### **4.4.1 Build Alternative 1: Tight Diamond Interchange**

Interchange Build Alternative 1 proposes a diamond interchange that provides full movements. The Diamond Alternative configuration features parallel type entry ramps in the northeast and southwest quadrant that merge onto I-95 and single-lane exit ramps in the northwest and southeast quadrants. Two closely spaced signalized intersections are provided at the ramp terminals.

The proposed roadway will be served by 7 new stormwater management facilities as well as one existing stormwater management facility.

The western-most existing roadway basin is conveyed through ditches and storm sewer to the stormwater management facility (existing wet pond to be modified). The existing wet pond was originally permitted (SJRWMD Permit No. 134174-1) for a two-lane roadway. The treatment for the additional impervious area from the widening of Pioneer Trail will be accomplished in the existing wet pond to be modified. The offsite runoff that drain towards the project area will remain separate from the on-site runoff.

The eastern-most existing roadway basin (near Turnbull Bay Road) was originally permitted (SJRWMD Permit No. 40-127-103479-1) for a two-lane roadway. The runoff generated from the east side of Pioneer Trail will continue to be collected inside the roadside ditches and drain to the existing permitted online retention/detention facilities with control outfall structures discharging ultimately to Spruce Creek. The runoff on the west side of Pioneer Trail will be collected through ditches and storm sewer. The treatment for the additional impervious area from the widening of Pioneer Trail will be accomplished in Pond 1.3 and offsite runoff will be conveyed along the roadside



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ditches to the unnamed canal. The offsite runoff that drain towards the project area will remain separate from the on-site runoff.

The basins along I-95 was originally permitted (SJRWMD Permit No. 4-127-118421-2) for a six-lane roadway. FDOT is proposing to add capacity to I-95 by widening the current roadway to six lanes, adding one new lane in each direction. The runoff from the on-site drainage basins will be treated in the proposed stormwater management facilities before discharging to the receiving water body. The median ponds are wetland stormwater management systems and will remain unchanged from the pre-development conditions. The offsite runoff that drain towards the project area will remain separate from the on-site runoff.

#### **4.4.2 Build Alternative 2: Parclo 1 Interchange (1 Loop)**

Interchange Build Alternative 2 proposes a partial cloverleaf interchange that provides full access. The Partial Cloverleaf 1 Alternative configuration features parallel type entry ramps in the northeast and southwest quadrant that merge onto I-95 and single-lane exit ramps in the northwest and southeast quadrants. An additional loop ramp is provided in the southwest quadrant for the I-95 southbound traffic exiting to Pioneer Trail eastbound. This loop ramp eliminates the need for a left turn movement at the I-95 southbound ramp terminal.

The proposed roadway will be served by 8 new stormwater management facilities as well as one existing stormwater management facility.

Like Alternate 1, the western-most existing roadway basin is conveyed through ditches and storm sewer to the stormwater management facility (existing wet pond to be modified). The existing wet pond was originally permitted (SJRWMD Permit No. 134174-1) for a two-lane roadway. The treatment for the additional impervious area from the widening of Pioneer Trail will be accomplished in the existing wet pond to be modified. The offsite runoff that drain towards the project area will remain separate from the on-site runoff.

The eastern-most existing roadway basin (near Turnbull Bay Road) was originally permitted (SJRWMD Permit No. 40-127-103479-1) for a two-lane roadway. The runoff generated from the east side of Pioneer Trail will continue to be collected inside the roadside ditches and drain to the existing permitted online retention/detention facilities with control outfall structures discharging ultimately to Spruce Creek. The runoff on the west side of Pioneer Trail will be collected through ditches and storm sewer. The treatment for the additional impervious area from the widening of Pioneer Trail will be accomplished in Pond 2.4 and offsite runoff will be conveyed along the roadside



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ditches to the unnamed canal. The offsite runoff that drain towards the project area will remain separate from the on-site runoff.

The basins along I-95 was originally permitted (SJRWMD Permit No. 4-127-118421-2) for a six-lane roadway. FDOT is proposing to add capacity to I-95 by widening the current roadway to six lanes, adding one new lane in each direction. The runoff from the on-site drainage basins will be treated in the proposed stormwater management facilities before discharging to the receiving water body. The median ponds are wetland stormwater management systems and will remain unchanged from the pre-development conditions. The offsite runoff that drain towards the project area will remain separate from the on-site runoff.

#### **4.4.3 Build Alternative 3: Parclo 2 Interchange (2 Loops)**

Interchange Build Alternative 3 proposes a partial cloverleaf interchange that provides full access. The Partial Cloverleaf 2 Alternative configuration features parallel type entry ramps in the northeast and southwest quadrant that merge onto I-95 and a single-lane exit ramp in the northwest quadrant. Two loop ramps are provided in this configuration. The southwest quadrant loop ramp is for the I-95 southbound traffic exiting to Pioneer Trail eastbound, eliminating the need for a left turn movement at the I-95 southbound ramp terminal. The northeast quadrant loop ramp is for the I-95 northbound traffic exiting to Pioneer Trail eastbound; this design reduces the right of way impacts in the southeast quadrant.

The proposed roadway will be served by 6 new stormwater management facilities as well as one existing stormwater management facility.

Like the previous 2 alternatives, the western-most existing roadway basin is conveyed through ditches and storm sewer to the stormwater management facility (existing wet pond to be modified). The existing wet pond was originally permitted (SJRWMD Permit No. 134174-1) for a two-lane roadway. The treatment for the additional impervious area from the widening of Pioneer Trail will be accomplished in the existing wet pond to be modified. The offsite runoff that drain towards the project area will remain separate from the on-site runoff.

The eastern-most existing roadway basin (near Turnbull Bay Road) was originally permitted (SJRWMD Permit No. 40-127-103479-1) for a two-lane roadway. The runoff generated from the east side of Pioneer Trail will continue to be collected inside the roadside ditches and drain to the existing permitted online retention/detention facilities with control outfall structures discharging ultimately to Spruce Creek. The runoff on the west side of Pioneer Trail will be collected through ditches and storm sewer. The treatment for the additional impervious area from the widening of Pioneer Trail will be accomplished in Pond 3.5 and offsite runoff will be conveyed along the roadside





ditches to the unnamed canal. The offsite runoff that drain towards the project area will remain separate from the on-site runoff.

The basins along I-95 was originally permitted (SJRWMD Permit No. 4-127-118421-2) for a six-lane roadway. FDOT is proposing to add capacity to I-95 by widening the current roadway to six lanes, adding one new lane in each direction. The runoff from the on-site drainage basins will be treated in the proposed stormwater management facilities before discharging to the receiving water body. The median ponds are wetland stormwater management systems and will remain unchanged from the pre-development conditions. The offsite runoff that drain towards the project area will remain separate from the on-site runoff.

#### 4.5 DESIGN INPUTS

All three build alternatives were evaluated which included the following elements:

- The mean storm event rainfall depth: 5 inches
- The 25-year, 24-hour storm event rainfall depth: 9.5 inches
- The curve numbers for the contributing areas 84 (pervious areas), 98 (impervious areas), and 100 (water surface areas)
- Time of concentration for the contributing areas (onsite runoff) to the existing and proposed stormwater management ponds 10 minutes
- Time of concentration for the offsite runoff was based on existing permits
- Tail water condition: based on the existing permit No. 134174-1 Williamson Boulevard South Ext. (Airport Blvd to Pioneer Trail)
- The control elevations were based on GEC estimated seasonal high-water elevations surveyed on May 1, 2020
- Existing Wet Pond Time/Stage: based on the existing permit No. 134174-1 Williamson Boulevard South Ext. (Airport Blvd to Pioneer Trail) (Refer to **Appendix F**)

#### 4.6 SUMMARY OF RESULTS

##### 4.6.1 Pond Siting Calculations

This task involved using the SJRWMD Applicant's Handbook to calculate the required treatment volume for the proposed wet detention systems. In addition to the proposed detention systems providing the capacity for the appropriate treatment volume, ICPR was used to evaluate the peak discharge for the existing and proposed conditions 25-year, 24-hour return interval design storm.

The detailed input and output modeling analysis for the mean and 25-year, 24-hour interval simulations are included in **Appendix C** of this report, however, **Table 1** below summarizes Alternate 1, 2 and 3 conditions land use, water quantity and water quality for the existing and proposed conditions. The proposed conditions drainage basins are also included in **Appendix C**.

The ICPR models determined that there are no increases in discharge under the proposed conditions to the outfall boundary (noted as Noffsites and Noffsites-S in the ICPR model). Noffsites is located east of I-95 near Turnbull Bay Road and N-offsites-S is located west of I-95 near S Williamson Boulevard.

**TABLE 1: STORMWATER MANAGEMENT DESIGN SUMMARY**

EVALUATION FACTORS		ALTERNATIVES		
		ALT 1	ALT 2	ALT 3
<b>(A) Land Use</b>				
PRE	Impervious (acres)	14.42	11.94	11.42
	Pervious (acres)	78.12	84.11	74.36
	Water Surface Area (acres)	2.15	2.15	2.15
	<b>SYSTEM TOTAL</b>	<b>94.69</b>	<b>98.20</b>	<b>87.93</b>
POST	Impervious (acres)	29.57	30.11	27.71
	Pervious (acres)	44.47	45.92	41.12
	Water Surface Area (acres)	20.65	22.16	19.09
	<b>SYSTEM TOTAL</b>	<b>94.69</b>	<b>98.20</b>	<b>87.93</b>
<b>(B) Water Quantity</b>				
PRE	Mean (cfs) (Noffsites)	139.70	140.56	122.12
	25yr/24hr (cfs) (Noffsites)	222.37	229.14	208.62
	Mean (cfs) (Noffsites-S)	2.89	2.82	2.82
	25yr/24hr (cfs) (Noffsites-S)	73.32	73.31	73.31
POST	Mean (cfs) (Noffsites)	20.72	27.30	23.65
	25yr/24hr (cfs) (Noffsites)	51.97	56.97	53.04
	Mean (cfs) (Noffsites-S)	0.81	0.81	0.81
	25yr/24hr (cfs) (Noffsites-S)	50.18	50.19	50.19
<b>(C) Water Quality</b>				
POST	Required Treatment Volume (ac-ft)	11.72	12.31	10.99
	Provided Treatment Volume (ac-ft)	19.69	14.10	11.81

#### 4.6.2 Floodplain Calculations

Most of the encroachments will be longitudinal with some transverse encroachments near the outfall boundary. Four Floodplain Compensation (FPC) sites are proposed for Alternative 1 and five FPC sites will be provided for Alternatives 2 and 3 for all floodplain impacts as a result of the floodplain encroachments.

Figures 12, 13 and 14 in Appendix A illustrate the potential floodplain impacts located within the Pioneer Trail right-of-way. The potential maximum floodplain encroachment



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areas within the right-of-way is included in **Table 2 Alternatives Evaluation Matrix** located in **Section 5**.

The floodplain impacts and compensation site volumes that were determined using Microstation Geopak is summarized in **Appendix D**. To determine the floodplain impacts the existing ground and proposed grades were compared with the seasonal high-water levels. The comparison stopped at the base flood elevations. Some areas the floodplain impacts were overestimated as the seasonal high-water levels were higher than the existing ground elevations. No floodplain impacts occur below the seasonal high-water levels. The seasonal high-water levels were estimated based on the geotechnical borings.

To determine the compensation site volume the proposed and existing ground surfaces between the seasonal high-water levels and the base flood elevations were compared.

During the design phase, further floodplain impacts may be minimized by adjusting the typical section within the encroachment area and revising side slopes.

#### **4.6.3 Base Clearance Calculations**

The minimum clearance from the bottom of the roadway base course to the base clearance water elevation is 3 feet. Two methods were reviewed/analyzed during this study. The first method consisted in utilizing the weir elevation and the second method utilizing ICPR. The ICPR model was used to determine whether the pond stages down below the 3 feet base clearance requirement along I-95 within 24 hours. Based on the parameters surrounding the infield ponds and the narrow envelope between the seasonal high-water table / tailwater and the required base clearance resulting a clearance less than 3 feet. A variance will need to be requested during the design phase. Refer to **Appendix E** for the Base Clearance Analysis.

#### **4.6.4 Wetlands**

Wetland systems occupy a significant portion of the project footprint, identified as primarily mixed forested communities and hydric pine flatwoods. These systems are low to moderate quality systems that provide wetland functions (wildlife habitat, water quality functions, and flood storage) below optimal levels. The potential for impacts to these wetlands have been evaluated based upon the three interchange alternatives. The impacts to wetlands and surface waters for each alternative is included in **Table 2 Wetland and Surface Water Impact Summary**.



**TABLE 2: WETLAND AND SURFACE WATER IMPACT SUMMARY**

No.	Habitat Type	Alt 1	Alt 2	Alt 3
<b>Wetlands</b>				
1	Hydric Pine Flatwoods	1.25	1.25	1.25
2	Wetland Forested Mixed	7.06	7.07	6.96
3	Wet Prairie	0.25	0.34	0.34
4	Wet Prairie	2.61	2.62	2.62
5	Hydric Pine Flatwoods	3.66	3.66	5.23
6	Wetland Forested Mixed	7.41	7.41	10.08
7	Wetland Forested Mixed	3.94	3.94	1.17
8	Hydric Pine Flatwoods	3.31	3.31	1.38
9	Wetland Forested Mixed	10.53	11.32	11.46
10	Hydric Pine Flatwoods	1.63	1.63	1.63
11	Cypress	0.00	0.00	0.00
12	Wetland Forested Mixed	0.07	0.07	0.07
13	Wetland Forested Mixed	2.53	2.53	2.52
13A	Hydric Pine Flatwoods	0.14	0.14	0.14
13B	Hydric Pine Flatwoods	0.12	0.12	0.12
14	Hydric Pine Flatwoods	1.41	1.84	1.69
15	Wet Prairie	0.00	0.00	0.00
16	Wetland Forested Mixed	0.00	0.00	0.00
17	Cypress	0.03	0.03	0.29
18	Wet Prairie	0.005	0.005	0.005
	<b>Subtotal for Wetlands</b>	<b>45.96</b>	<b>47.29</b>	<b>46.96</b>
<b>Surface Waters</b>				
1	Stormwater / Drainage Features	2.15	2.15	2.15
2	Stormwater / Drainage Features	0.00	0.00	0.00
3	Ditch / Swale	0.22	0.22	0.19
4	Ditch / Swale	0.53	0.53	0.53
5	Ditch / Stormwater / Drainage	0.81	0.81	0.81
6	Stormwater / Drainage Features	0.00	0.00	0.00
7	Stormwater / Drainage Features	0.65	0.65	0.65
8	Ditch / Swale	1.55	1.62	0.65
9	Ditch / Swale	0.23	0.23	0.23
10	Ditch / Swale	0.00	0.00	0.00
11	Ditch / Swale	0.00	0.00	0.02
	<b>Subtotal for Surface Waters</b>	<b>6.14</b>	<b>6.21</b>	<b>5.23</b>
<b>Total for Wetlands and Surface Waters</b>		<b>52.10</b>	<b>53.50</b>	<b>52.19</b>

## 5.0 EVALUATION MATRIX

An evaluation summary matrix comparing the various roadway alternatives is included in **Table 3**. This matrix was developed to compare the 3 Alternatives, based on preliminary estimates of costs (ROW acquisition, wetland mitigation, stormwater management facilities, engineering, and construction); social and environmental factors. The data for each alternative was developed based on the proposed right-of-way “footprint”.

**TABLE 1: ALTERNATIVES EVALUATION MATRIX**

EVALUATION FACTORS	ALTERNATIVES		
	ALT 1	ALT 2	ALT 3
<b>(A) Natural Environment</b>			
Stormwater Management (Acres)	32.07	31.86	26.34
Floodplain Fill (ac-ft) <sup>1</sup>	7.58	7.67	7.67
Preliminary Compensation Storage (ac-ft) <sup>1</sup>	8.07	8.75	8.72
Wetlands (Acres)	46.03	47.36	46.96
Surface Water and Ditch Impacts (Acres)	16.98	17.05	16.51
Wildlife Impacts (Acres) <sup>2</sup>	-	-	-
Cultural Impacts	0	0	0
Archeological Sites	0	0	0
Historic Sites/Districts <sup>3</sup>	0	0	0
<b>(B) Social Environment</b>			
# of Parcel Impacted	16	16	16
# of Potential Relocations	1	1	1
Total Right of Way Required (Acres)	81.51	85.11	79.48
<b>(C) Physical Environment</b>			
Potentially Contaminated Sites	4-Low, 1-Medium	4-Low, 1-Medium	3-Low
<b>(D) Estimated Construction Cost</b>			
Stormwater Management (\$345,000/ac)	\$11,064,150	\$10,991,700	\$9,087,300
Floodplain Impacts (\$72,300/ac)	\$2,013,555	\$2,291,187	\$2,291,187
Wetlands Mitigation (\$150,000/ac)	\$6,904,500	\$7,104,000	\$7,044,000
Construction Costs <sup>4</sup>	\$5,435,017	\$5,518,565	\$4,703,947
<b>(F) Construction Subtotal Cost</b>	<b>\$25,417,222</b>	<b>\$25,905,452</b>	<b>\$23,126,434</b>
Engineering Design Costs (15% of construction)	\$3,812,583.29	\$3,885,817.83	\$3,468,965.05
Construction engineering & inspection costs (15% of construction)	\$3,812,583.29	\$3,885,817.83	\$3,468,965.05
<b>(G) Preliminary Estimate of Total Costs</b>	<b>\$33,042,388.47</b>	<b>\$33,677,087.87</b>	<b>\$30,064,363.73</b>

Notes:

1. The floodplain encroachment will be further evaluated during the design once all geotechnical information is obtained and seasonal high-water elevation is determined.
2. No critical habitat and no listed species involvement are anticipated in the project study area. The Natural Resources Evaluation (NRE, August 2020) for the project contains detailed data and information regarding individual species and habitat. The wildlife factors are assumed to be equal for all three alternatives and thus, not a factor for consideration in selection of alternative.
3. No effect of National Register of Historic Places (NRHP)-listed or -eligible historic properties.
4. The stormwater management facility construction costs include costs of installed drainage structures, drainage pipes and outfalls, clearing and grubbing,



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earthwork excavation and grading, berm construction, access accommodations and sodding

5. This table excludes utility relocation costs. Final utility relocations/costs will be determined during the design phase.
6. Utility impacts are assumed to be equal for all three alternatives and thus, not a basis for selection.
7. Aesthetics was not a basis for selection as all three alternatives have approximately the same pond locations. Pond sites would be designed consistent with the FDOT Highway Beautification Policy.

## 5.1 SELECTION OF RECOMMENDED ALTERNATIVE

The ponds and floodplain sites identified for consideration are based on field reconnaissance, ground and roadway elevations and existing land use. Wet detention facilities were warranted due to the shallow SHW table. The stormwater ponds identified in this report represent the most suitable locations and are based on quantitative and qualitative engineering judgment. Based on the findings herein, each Alternative only yielded one possible pond location. Due to the footprint of the proposed interchange improvement and the soil characteristics of the study area, locations for both pond sites and floodplain compensation ponds included as part of the preferred roadway alternative were located at what was determined as the optimum spot for these facilities based on a variety of factors that included maximizing available lands as a result of the roadway improvement, minimizing the number of properties being impacted, hydraulic characteristics of the area and avoidance of wetland impacts. The floodplain compensation ponds were placed in land locked parcel remnants of already impacted parcels that were hydraulically conducive for this intended purpose, thus reducing the need for impacts to additional property owners besides those already affected. Given the constraints of the study area previously noted, it was determined that placement of additional pond and floodplain compensation site alternatives on parcels other than those parcels already impacted was not feasible.

All alternatives were evaluated with regards to socio-economic, engineering, environmental and safety factors. Based on these evaluations, a recommended build alternative was identified and recommended for this study. The recommended build alternative is build alternative 3, the 2-loop interchange. Alternative 3 would have the lowest right of way cost and lowest preliminary total cost.

## 6.0 CONCLUSIONS

Potential stormwater management facilities have been identified within the project limits for each interchange alternative. The analysis estimates wet detention ponds within the interchanges. The interchange alternatives were modeled in ICPR Version 4.04.00. The recommended alternative yields a total of six new wet ponds and one existing pond modification.



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The SJRWMD Applicant's handbook was used to calculate the required treatment volume and attenuation based on the 25-year, 24-hour storm event for wet detention ponds. The existing wet pond will need to be modified to account for the additional impervious area along Pioneer Trail.

In addition to the detention system providing the capacity for the appropriate treatment volume of stormwater specified, the ponds do not drawdown more than one-half of this rate within the first 24 hours. The wet ponds proposed also meet the maximum pond depth of 12 feet with a mean depth between 2 to 8 feet as required by the SJRWMD rules for wet detention systems.

The existing cross drains under I-95 and Pioneer Trail will need to be abandoned to allow easement for large trucks. The power lines within this location will need to be relocated due to raising the road. Therefore, the off-site runoff will be diverted to the north via roadside ditches and discharge to the Cypress head to the east before it ultimately discharges to Spruce Creek.

Most of the proposed alignment is located within the Special Flood Hazard Zone A. As a result of the floodplain encroachments five FPC ponds are proposed for the recommended build alternative.

The stormwater management facilities are located directly adjacent to the roadway, thus base clearance was investigated with respect to the anticipated design stage. FDOT's Flexible Pavement Manual allows for the base clearance to be reduced to 2-ft or 1-ft if the design resilient modulus is reduced by 25% or 50% respectively. As noted in Section 4.6.3, the required 3ft of clearance is not obtainable thus, a variance would need to be applied to reduce the base clearance along I-95 to 2 feet.

The wetlands within the project study area occur as large interconnected mosaic, therefore, avoidance of direct impacts will not be possible. Any adverse impacts to the wetlands will need to be mitigated. A total of 18 individual wetlands and 10 other surface waters (OSW) were located within the project study area. FDOT has agreed to Alternative 3, thus seventeen wetlands and eight OSWs would be affected by the recommended alternative evaluated in the study. A UMAM analysis of each wetland impacted by the recommended alternative results in an estimated functional loss of 22.567 UMAM units associated with the project.

## Appendix A - Figures



**FIGURE 1: PROJECT LOCATION**  
**I-95 at Pioneer Trail Interchange**  
FM 436292-1-22-01 / ETDM 14193 / Volusia County

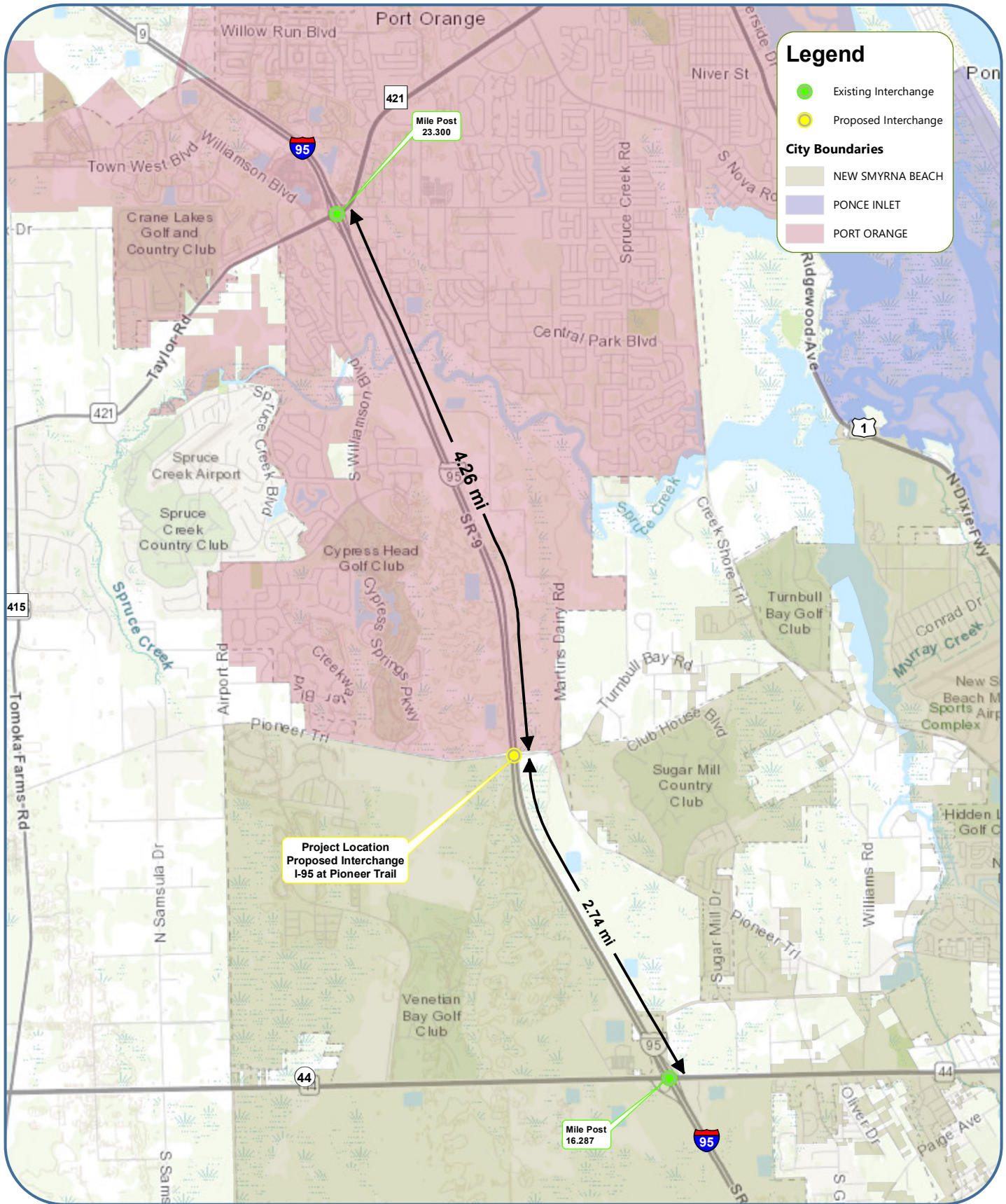
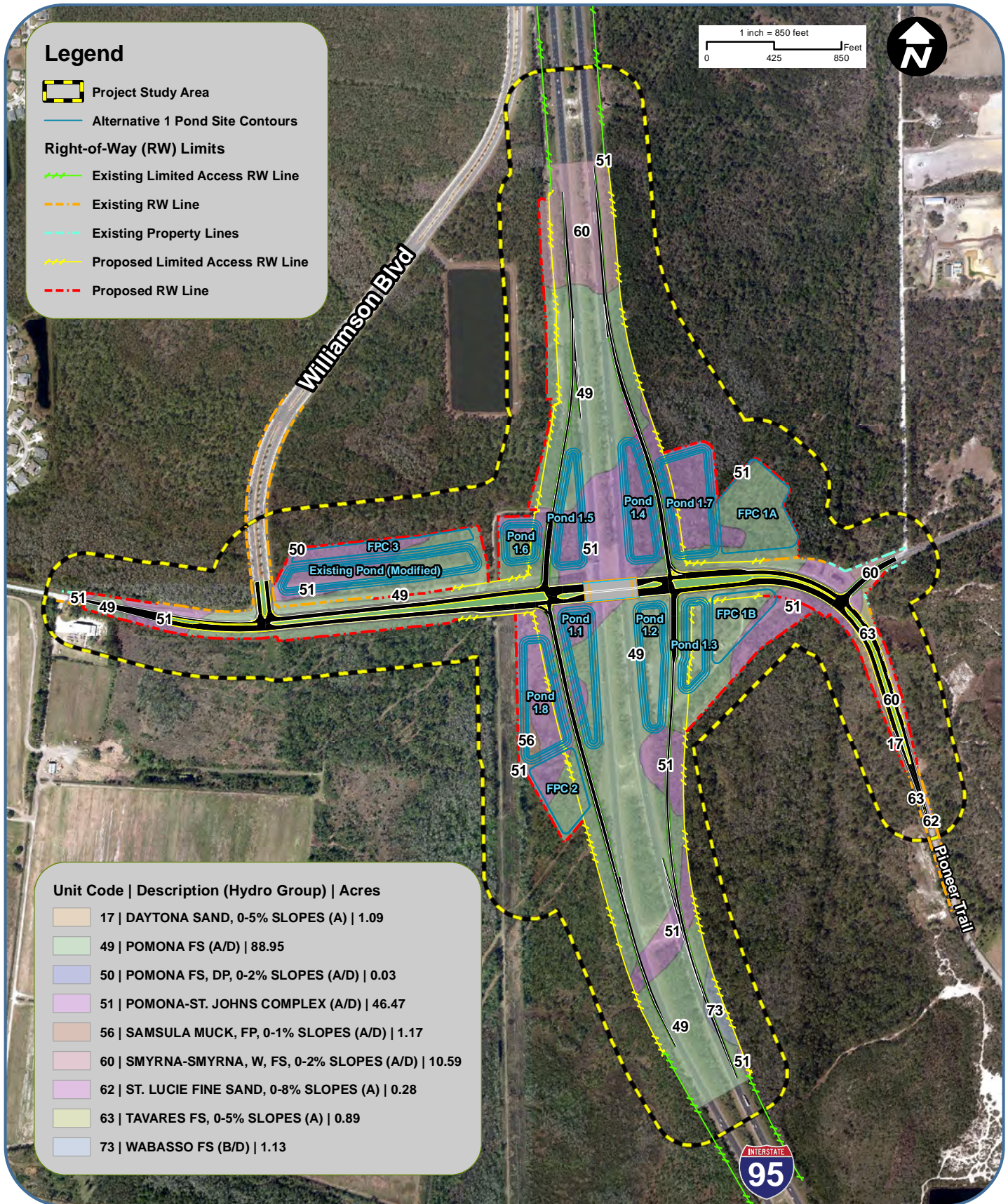






FIGURE 2 : NRCS MAPPED SOIL UNITS - ALTERNATIVE 1  
 I-95 at Pioneer Trail Interchange  
 FM 436292-1-22-01 / ETDM 14193 / Volusia County



**Legend**

- Project Study Area
- Alternative 1 Pond Site Contours

**Right-of-Way (RW) Limits**

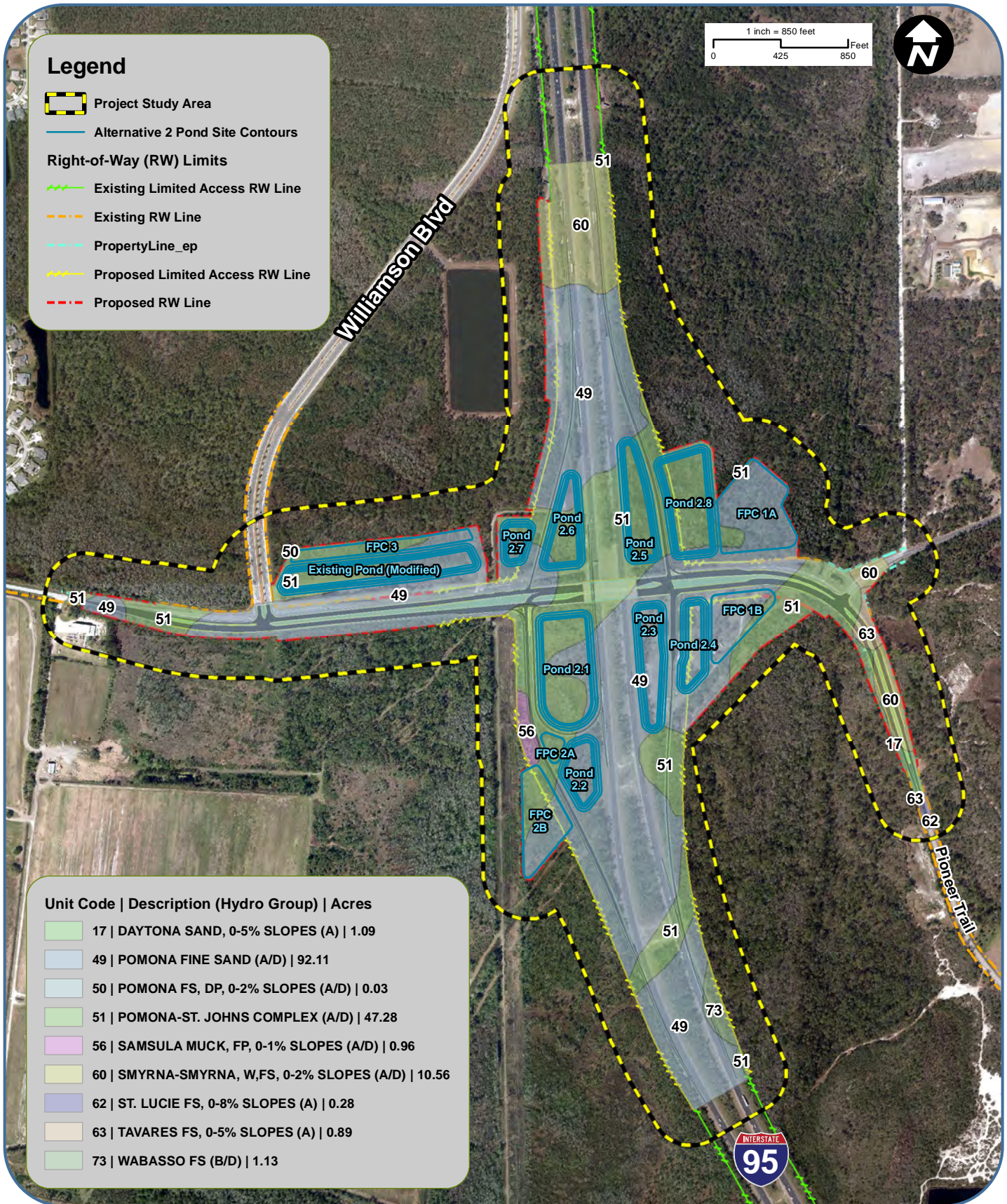
- Existing Limited Access RW Line
- Existing RW Line
- Existing Property Lines
- Proposed Limited Access RW Line
- Proposed RW Line

Unit Code	Description (Hydro Group)	Acres
17	DAYTONA SAND, 0-5% SLOPES (A)	1.09
49	POMONA FS (A/D)	88.95
50	POMONA FS, DP, 0-2% SLOPES (A/D)	0.03
51	POMONA-ST. JOHNS COMPLEX (A/D)	46.47
56	SAMSULA MUCK, FP, 0-1% SLOPES (A/D)	1.17
60	SMYRNA-SMYRNA, W, FS, 0-2% SLOPES (A/D)	10.59
62	ST. LUCIE FINE SAND, 0-8% SLOPES (A)	0.28
63	TAVARES FS, 0-5% SLOPES (A)	0.89
73	WABASSO FS (B/D)	1.13





FIGURE 3: NRCS MAPPED SOIL UNITS - ALTERNATIVE 2  
 I-95 at Pioneer Trail Interchange  
 FM 436292-1-22-01 / ETDM 14193 / Volusia County



**Legend**

- Project Study Area
- Alternative 2 Pond Site Contours
- Right-of-Way (RW) Limits**
- Existing Limited Access RW Line
- Existing RW Line
- PropertyLine\_ep
- Proposed Limited Access RW Line
- Proposed RW Line

**Unit Code | Description (Hydro Group) | Acres**

17	DAYTONA SAND, 0-5% SLOPES (A)	1.09
49	POMONA FINE SAND (A/D)	92.11
50	POMONA FS, DP, 0-2% SLOPES (A/D)	0.03
51	POMONA-ST. JOHNS COMPLEX (A/D)	47.28
56	SAMSULA MUCK, FP, 0-1% SLOPES (A/D)	0.96
60	SMYRNA-SMYRNA, W,FS, 0-2% SLOPES (A/D)	10.56
62	ST. LUCIE FS, 0-8% SLOPES (A)	0.28
63	TAVARES FS, 0-5% SLOPES (A)	0.89
73	WABASSO FS (B/D)	1.13





FIGURE 4: NRCS MAPPED SOIL UNITS - ALTERNATIVE 3

I-95 at Pioneer Trail Interchange  
FM 436292-1-22-01 / ETDM 14193 / Volusia County

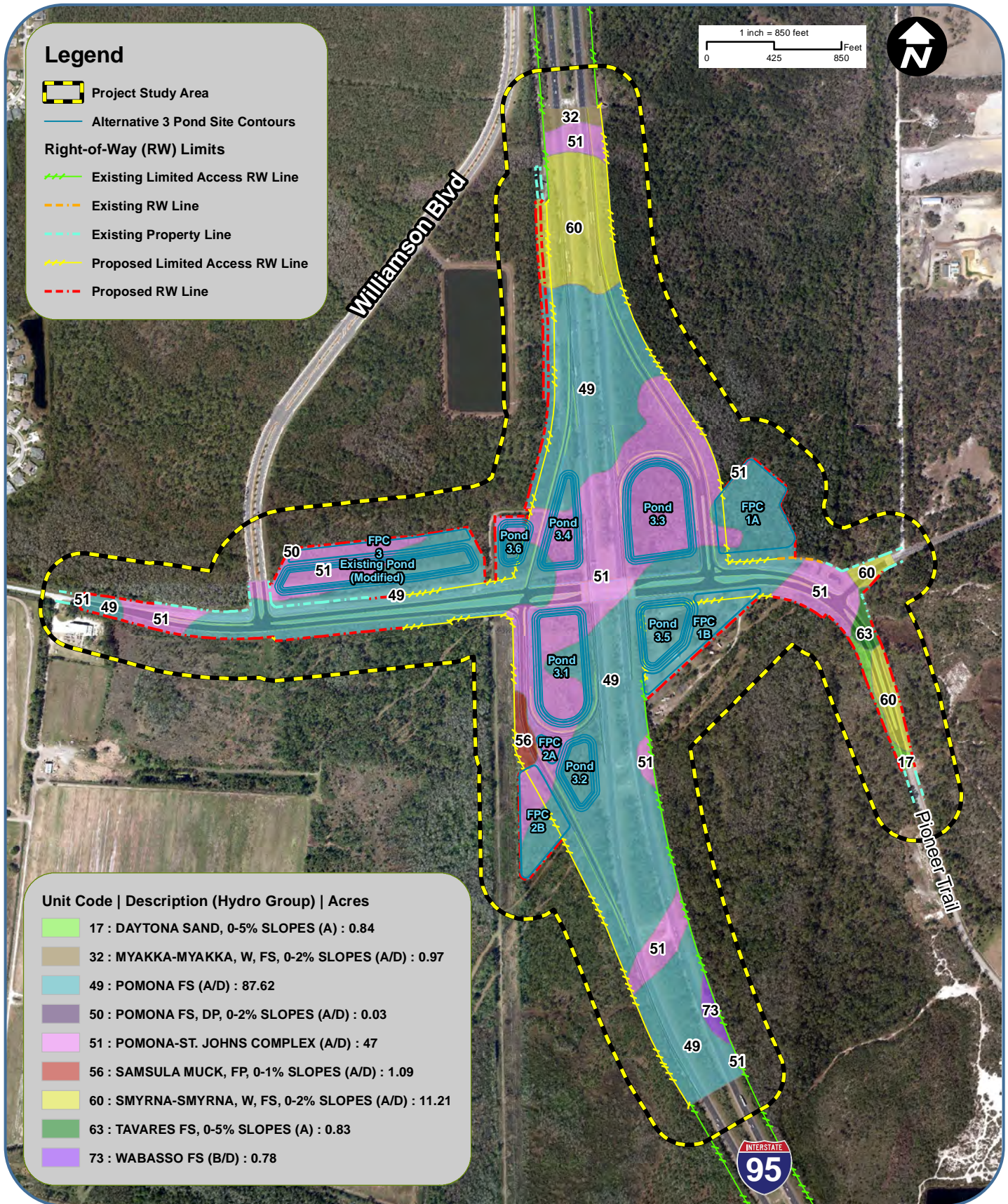
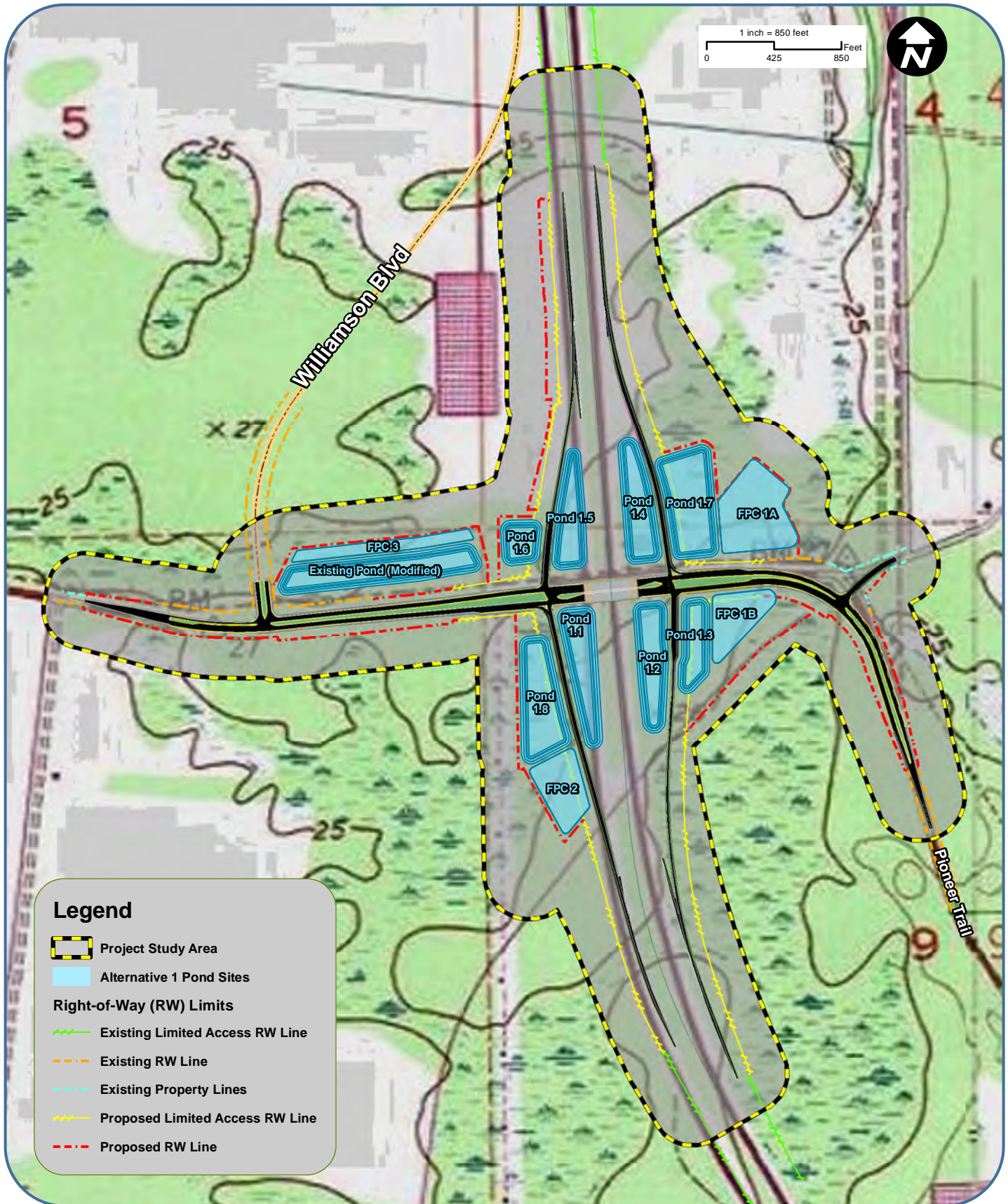






FIGURE 5 : USGS TOPO QUAD MAP - ALTERNATIVE 1  
I-95 at Pioneer Trail Interchange  
FM 436292-1-22-01 / ETDM 14193 / Volusia County



**Legend**

- Project Study Area
- Alternative 1 Pond Sites
- Right-of-Way (RW) Limits**
- Existing Limited Access RW Line
- Existing RW Line
- Existing Property Lines
- Proposed Limited Access RW Line
- Proposed RW Line





FIGURE 6: USGS TOPO QUAD MAP -ALTERNATIVE 2  
I-95 at Pioneer Trail Interchange  
FM 436292-1-22-01 / ETDM 14193 / Volusia County

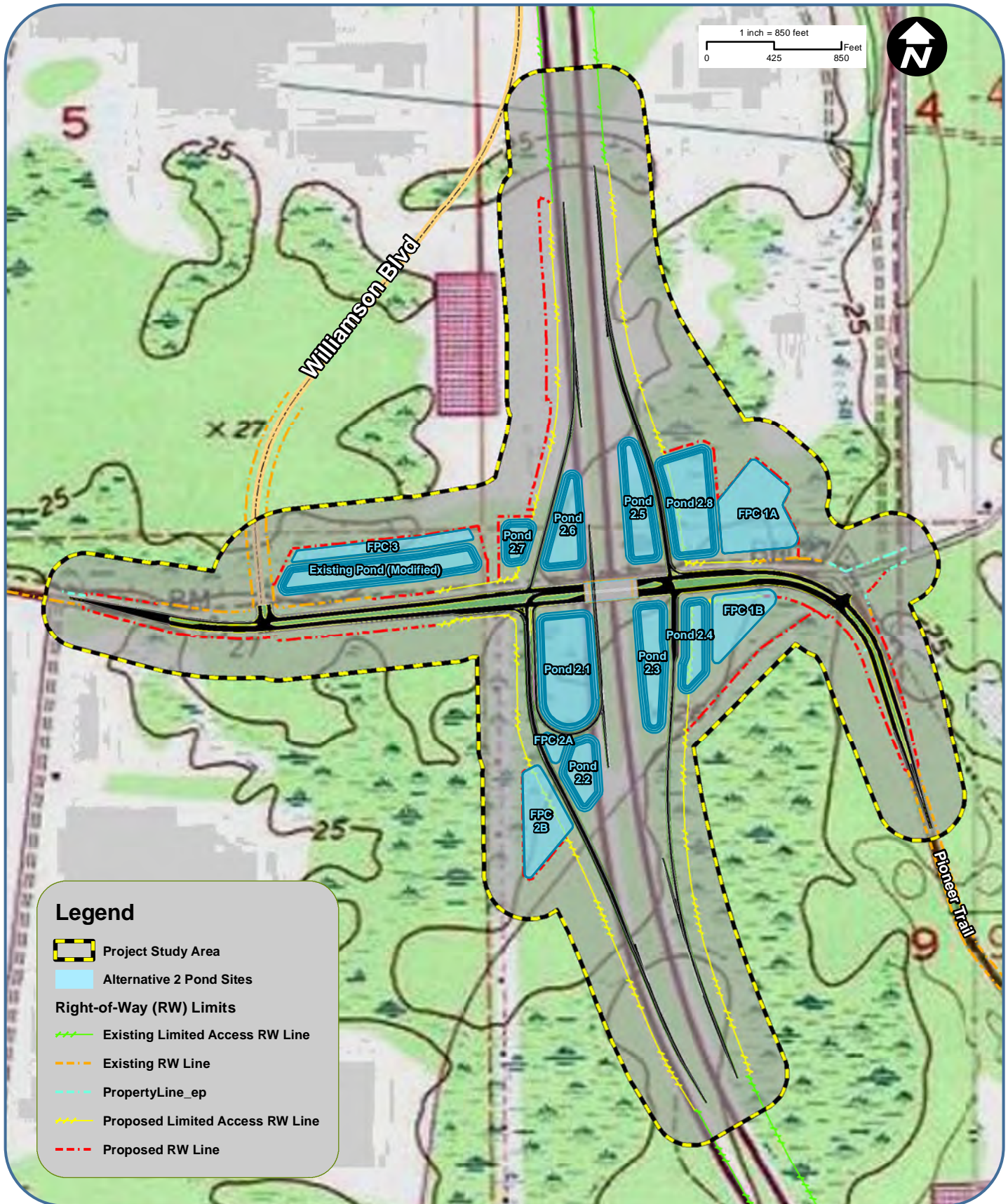




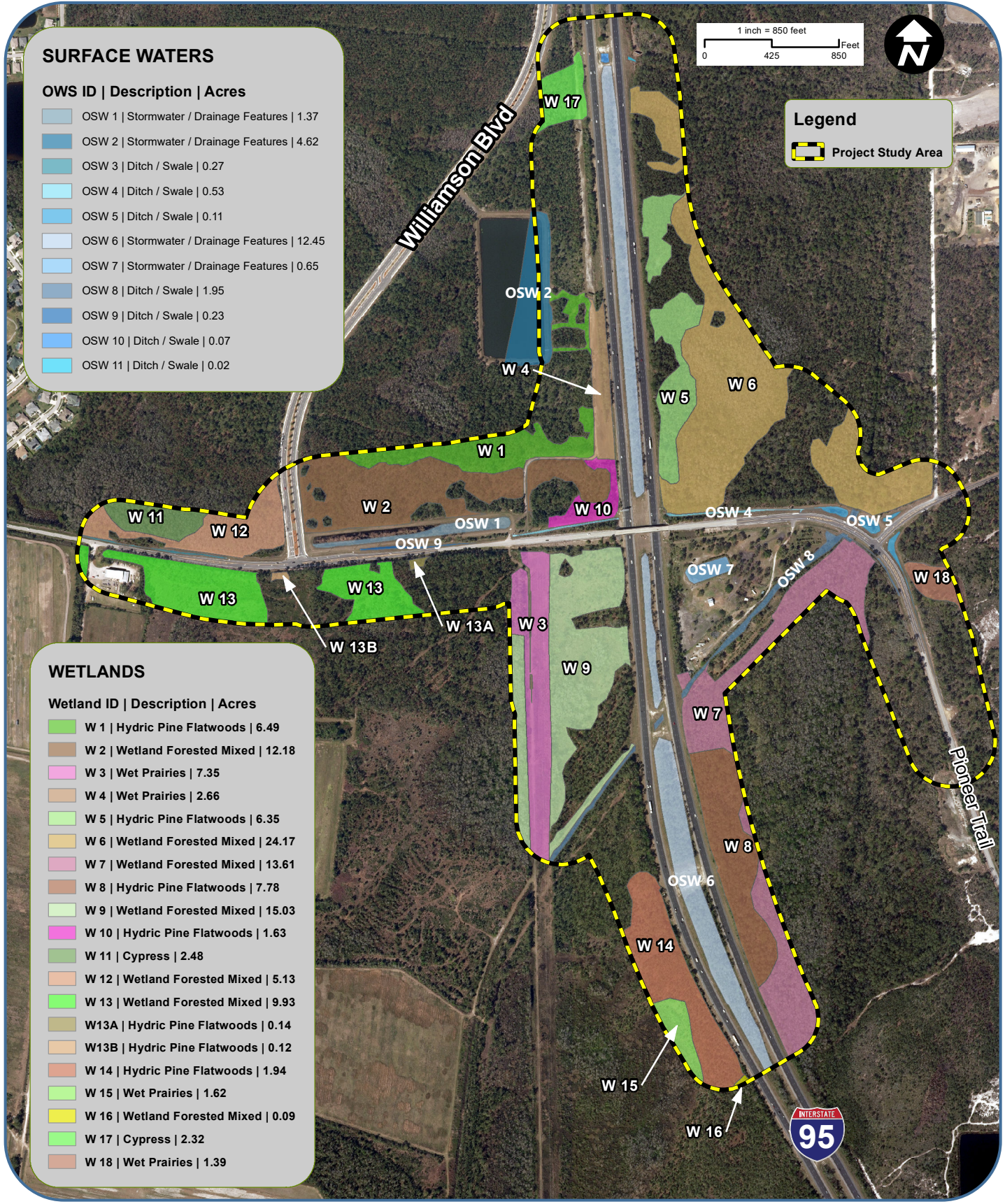


FIGURE 7: USGS TOPO QUAD MAP - ALTERNATIVE 3

I-95 at Pioneer Trail Interchange  
FM 436292-1-22-01 / ETDM 14193 / Volusia County







**SURFACE WATERS**

**OWS ID | Description | Acres**

- OSW 1 | Stormwater / Drainage Features | 1.37
- OSW 2 | Stormwater / Drainage Features | 4.62
- OSW 3 | Ditch / Swale | 0.27
- OSW 4 | Ditch / Swale | 0.53
- OSW 5 | Ditch / Swale | 0.11
- OSW 6 | Stormwater / Drainage Features | 12.45
- OSW 7 | Stormwater / Drainage Features | 0.65
- OSW 8 | Ditch / Swale | 1.95
- OSW 9 | Ditch / Swale | 0.23
- OSW 10 | Ditch / Swale | 0.07
- OSW 11 | Ditch / Swale | 0.02

**Legend**

- Project Study Area

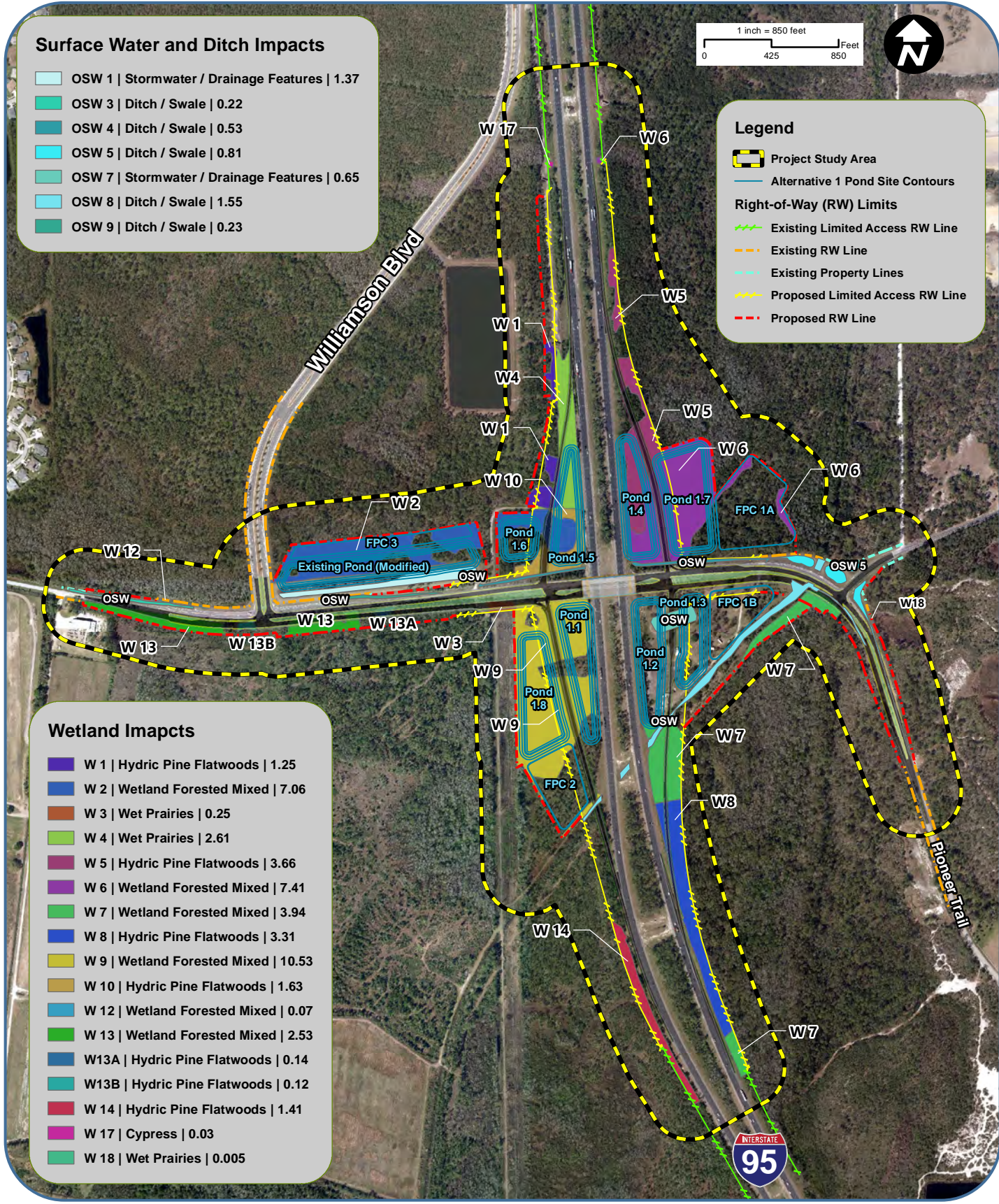
**WETLANDS**

**Wetland ID | Description | Acres**

- W 1 | Hydric Pine Flatwoods | 6.49
- W 2 | Wetland Forested Mixed | 12.18
- W 3 | Wet Prairies | 7.35
- W 4 | Wet Prairies | 2.66
- W 5 | Hydric Pine Flatwoods | 6.35
- W 6 | Wetland Forested Mixed | 24.17
- W 7 | Wetland Forested Mixed | 13.61
- W 8 | Hydric Pine Flatwoods | 7.78
- W 9 | Wetland Forested Mixed | 15.03
- W 10 | Hydric Pine Flatwoods | 1.63
- W 11 | Cypress | 2.48
- W 12 | Wetland Forested Mixed | 5.13
- W 13 | Wetland Forested Mixed | 9.93
- W13A | Hydric Pine Flatwoods | 0.14
- W13B | Hydric Pine Flatwoods | 0.12
- W 14 | Hydric Pine Flatwoods | 1.94
- W 15 | Wet Prairies | 1.62
- W 16 | Wetland Forested Mixed | 0.09
- W 17 | Cypress | 2.32
- W 18 | Wet Prairies | 1.39



FIGURE 9 : PROPOSED WETLAND AND SURFACE WATER IMPACTS - ALTERNATIVE 1  
 I-95 at Pioneer Trail Interchange  
 FM 436292-1-22-01 / ETDM 14193 / Volusia County



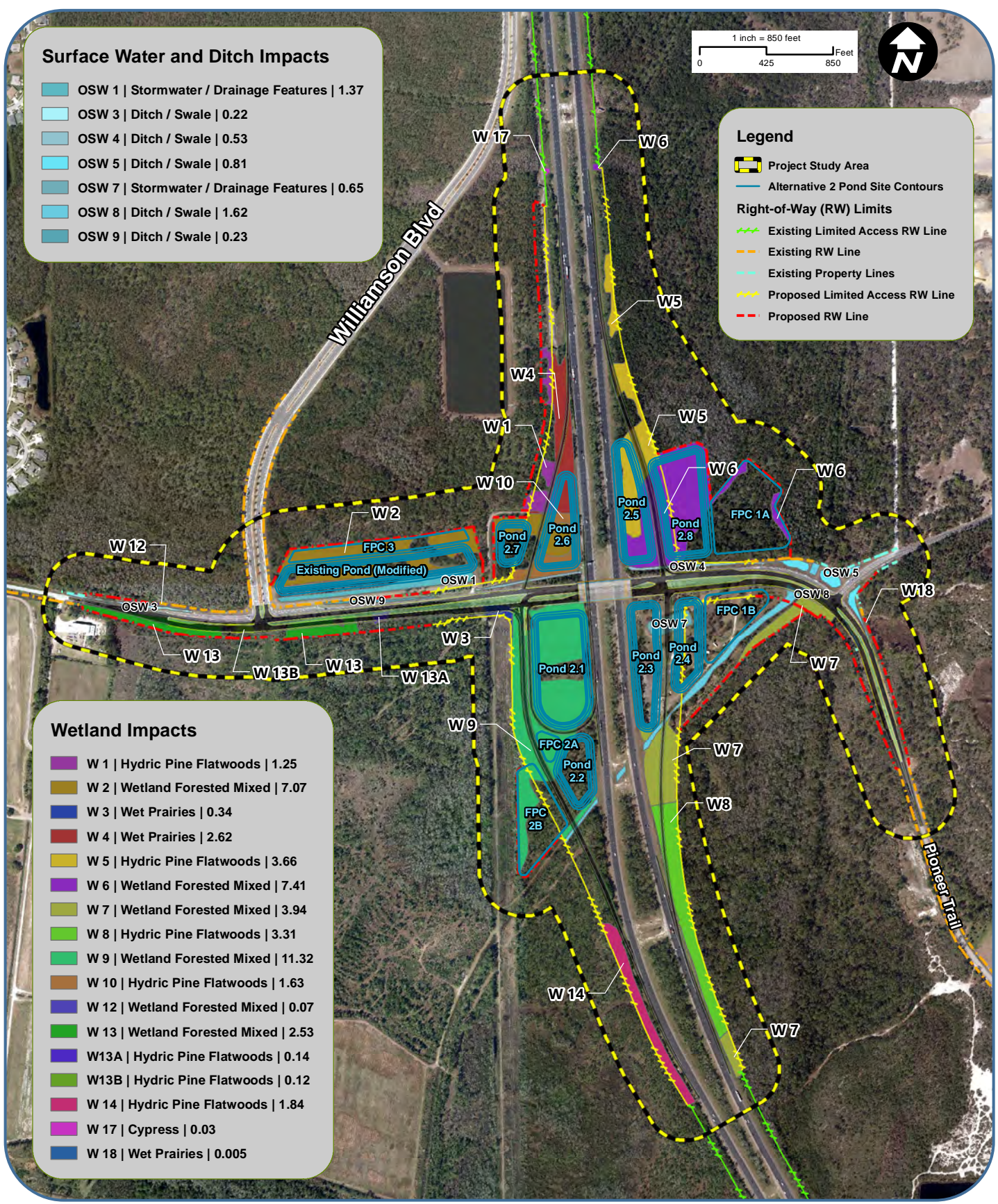
- ### Surface Water and Ditch Impacts
- OSW 1 | Stormwater / Drainage Features | 1.37
  - OSW 3 | Ditch / Swale | 0.22
  - OSW 4 | Ditch / Swale | 0.53
  - OSW 5 | Ditch / Swale | 0.81
  - OSW 7 | Stormwater / Drainage Features | 0.65
  - OSW 8 | Ditch / Swale | 1.55
  - OSW 9 | Ditch / Swale | 0.23

- ### Legend
- Project Study Area
  - Alternative 1 Pond Site Contours
  - Right-of-Way (RW) Limits**
  - Existing Limited Access RW Line
  - Existing RW Line
  - Existing Property Lines
  - Proposed Limited Access RW Line
  - Proposed RW Line

- ### Wetland Impacts
- W 1 | Hydic Pine Flatwoods | 1.25
  - W 2 | Wetland Forested Mixed | 7.06
  - W 3 | Wet Prairies | 0.25
  - W 4 | Wet Prairies | 2.61
  - W 5 | Hydic Pine Flatwoods | 3.66
  - W 6 | Wetland Forested Mixed | 7.41
  - W 7 | Wetland Forested Mixed | 3.94
  - W 8 | Hydic Pine Flatwoods | 3.31
  - W 9 | Wetland Forested Mixed | 10.53
  - W 10 | Hydic Pine Flatwoods | 1.63
  - W 12 | Wetland Forested Mixed | 0.07
  - W 13 | Wetland Forested Mixed | 2.53
  - W13A | Hydic Pine Flatwoods | 0.14
  - W13B | Hydic Pine Flatwoods | 0.12
  - W 14 | Hydic Pine Flatwoods | 1.41
  - W 17 | Cypress | 0.03
  - W 18 | Wet Prairies | 0.005



FIGURE 10: PROPOSED WETLAND AND SURFACE WATER IMPACTS - ALTERNATIVE 2  
 I-95 at Pioneer Trail Interchange  
 FM 436292-1-22-01 / ETDM 14193 / Volusia County



- ### Surface Water and Ditch Impacts
- OSW 1 | Stormwater / Drainage Features | 1.37
  - OSW 3 | Ditch / Swale | 0.22
  - OSW 4 | Ditch / Swale | 0.53
  - OSW 5 | Ditch / Swale | 0.81
  - OSW 7 | Stormwater / Drainage Features | 0.65
  - OSW 8 | Ditch / Swale | 1.62
  - OSW 9 | Ditch / Swale | 0.23

- ### Legend
- Project Study Area
  - Alternative 2 Pond Site Contours
  - Right-of-Way (RW) Limits**
  - Existing Limited Access RW Line
  - Existing RW Line
  - Existing Property Lines
  - Proposed Limited Access RW Line
  - Proposed RW Line

- ### Wetland Impacts
- W 1 | Hydric Pine Flatwoods | 1.25
  - W 2 | Wetland Forested Mixed | 7.07
  - W 3 | Wet Prairies | 0.34
  - W 4 | Wet Prairies | 2.62
  - W 5 | Hydric Pine Flatwoods | 3.66
  - W 6 | Wetland Forested Mixed | 7.41
  - W 7 | Wetland Forested Mixed | 3.94
  - W 8 | Hydric Pine Flatwoods | 3.31
  - W 9 | Wetland Forested Mixed | 11.32
  - W 10 | Hydric Pine Flatwoods | 1.63
  - W 12 | Wetland Forested Mixed | 0.07
  - W 13 | Wetland Forested Mixed | 2.53
  - W13A | Hydric Pine Flatwoods | 0.14
  - W13B | Hydric Pine Flatwoods | 0.12
  - W 14 | Hydric Pine Flatwoods | 1.84
  - W 17 | Cypress | 0.03
  - W 18 | Wet Prairies | 0.005



FIGURE 11: PROPOSED WETLAND AND SURFACE WATER IMPACTS - ALTERNATIVE 3

I-95 at Pioneer Trail Interchange

FM 436292-1-22-01 / ETDM 14193 / Volusia County

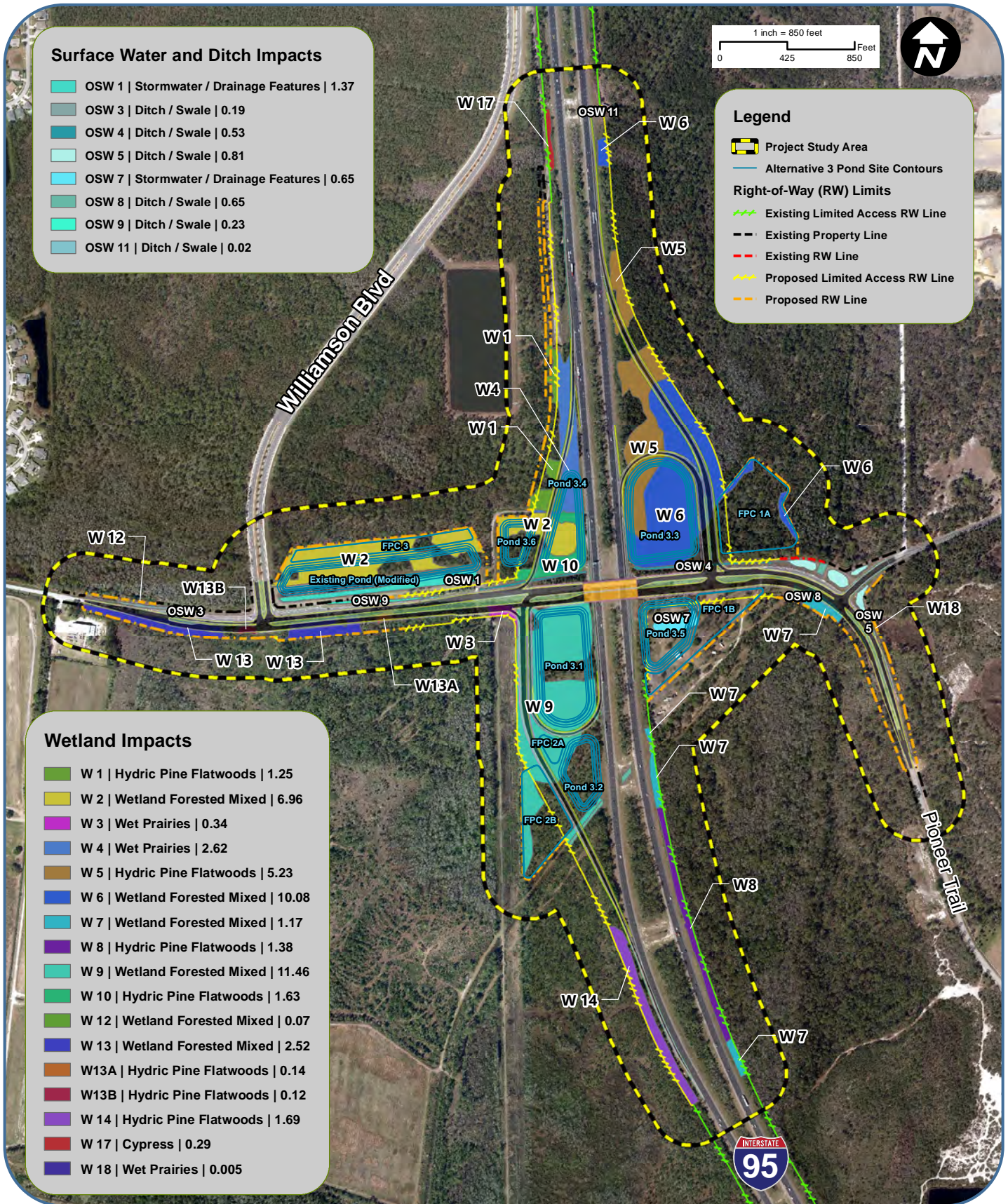




FIGURE 12 : FEMA FLOOD ZONES AND POTENTIAL IMPACTS - ALTERNATIVE 1

I-95 at Pioneer Trail Interchange  
 FM 436292-1-22-01 / ETDM 14193 / Volusia County

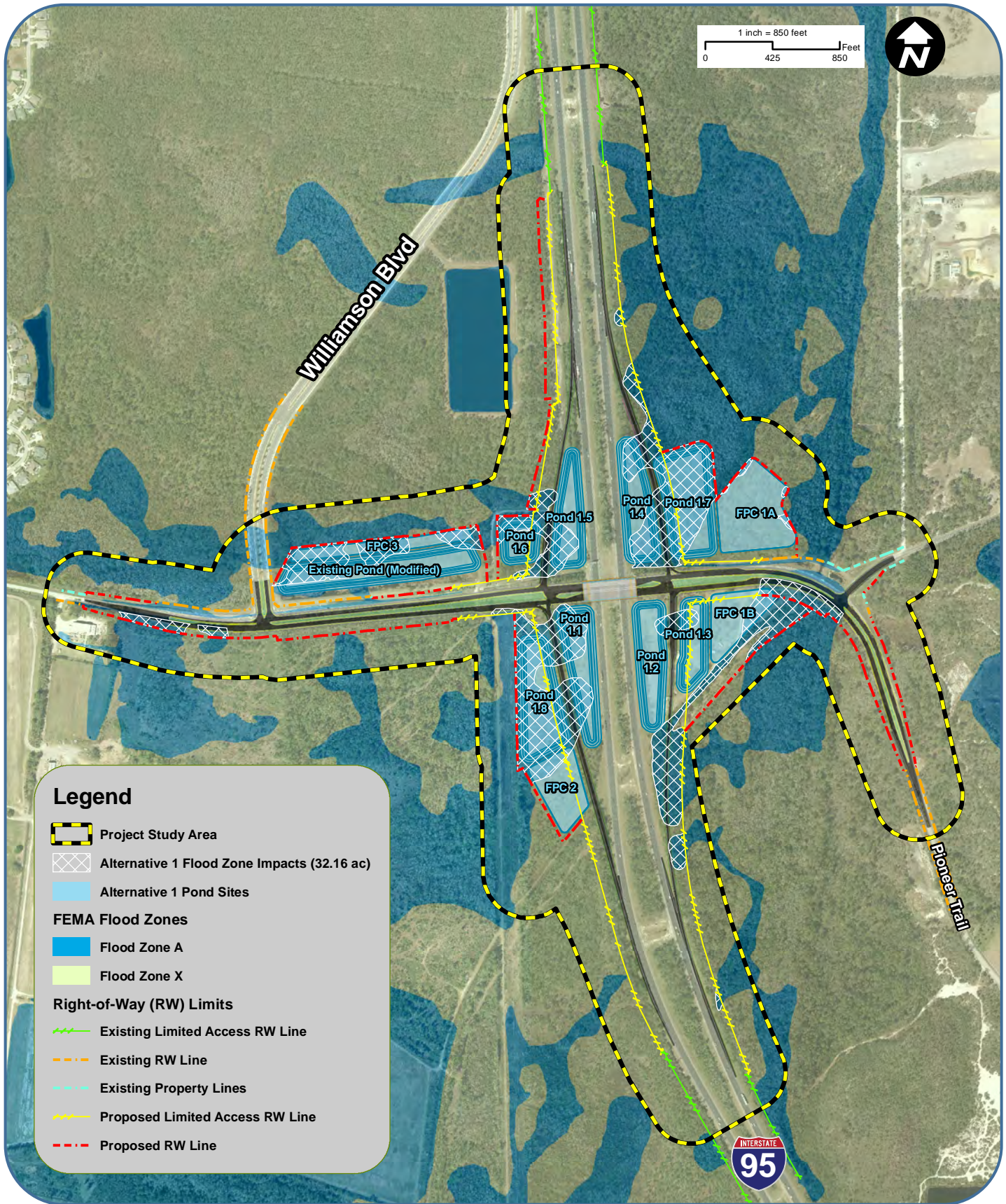




FIGURE 13: FEMA FLOOD ZONES AND POTENTIAL IMPACTS - ALTERNATIVE 2

I-95 at Pioneer Trail Interchange  
 FM 436292-1-22-01 / ETDM 14193 / Volusia County

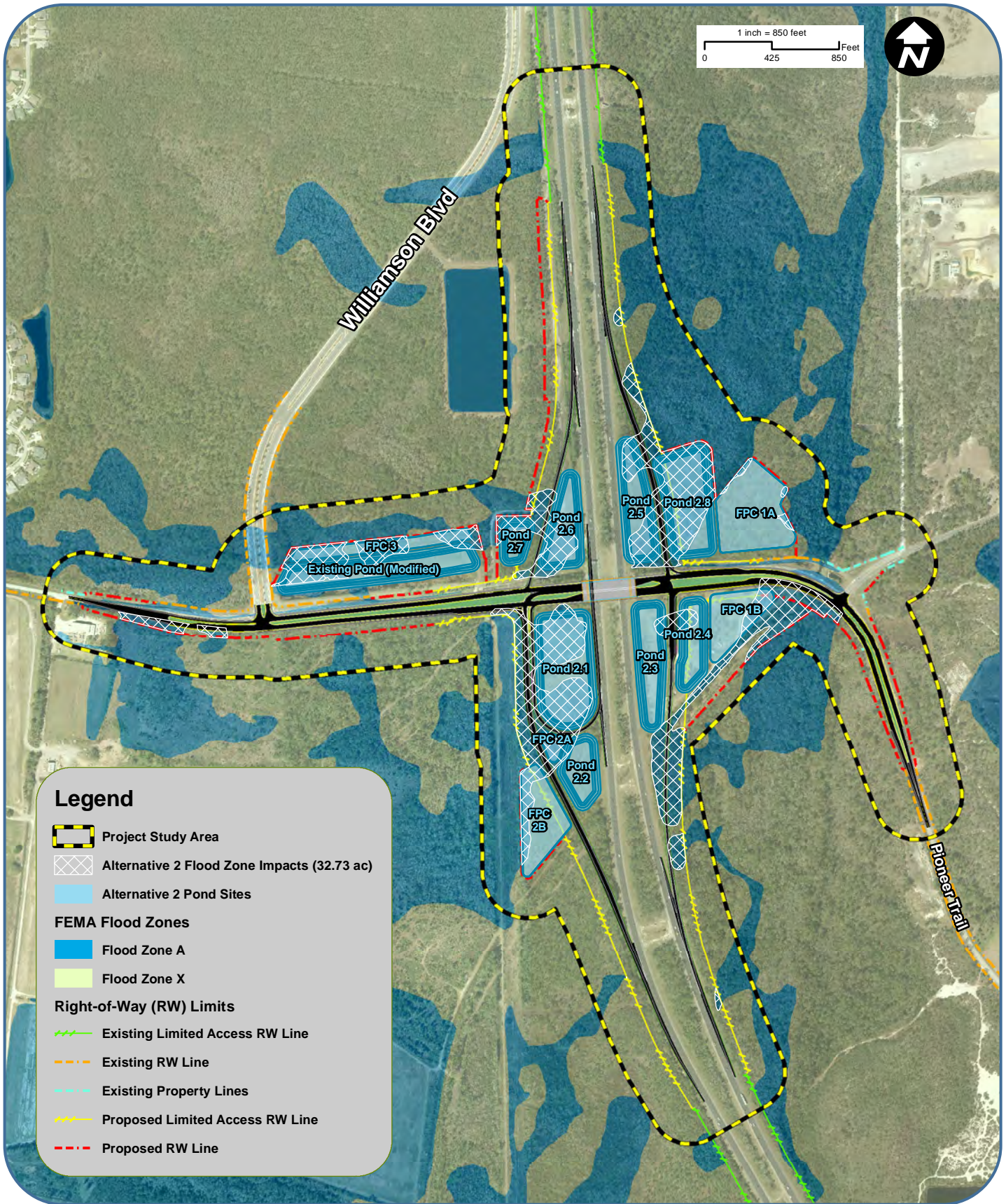
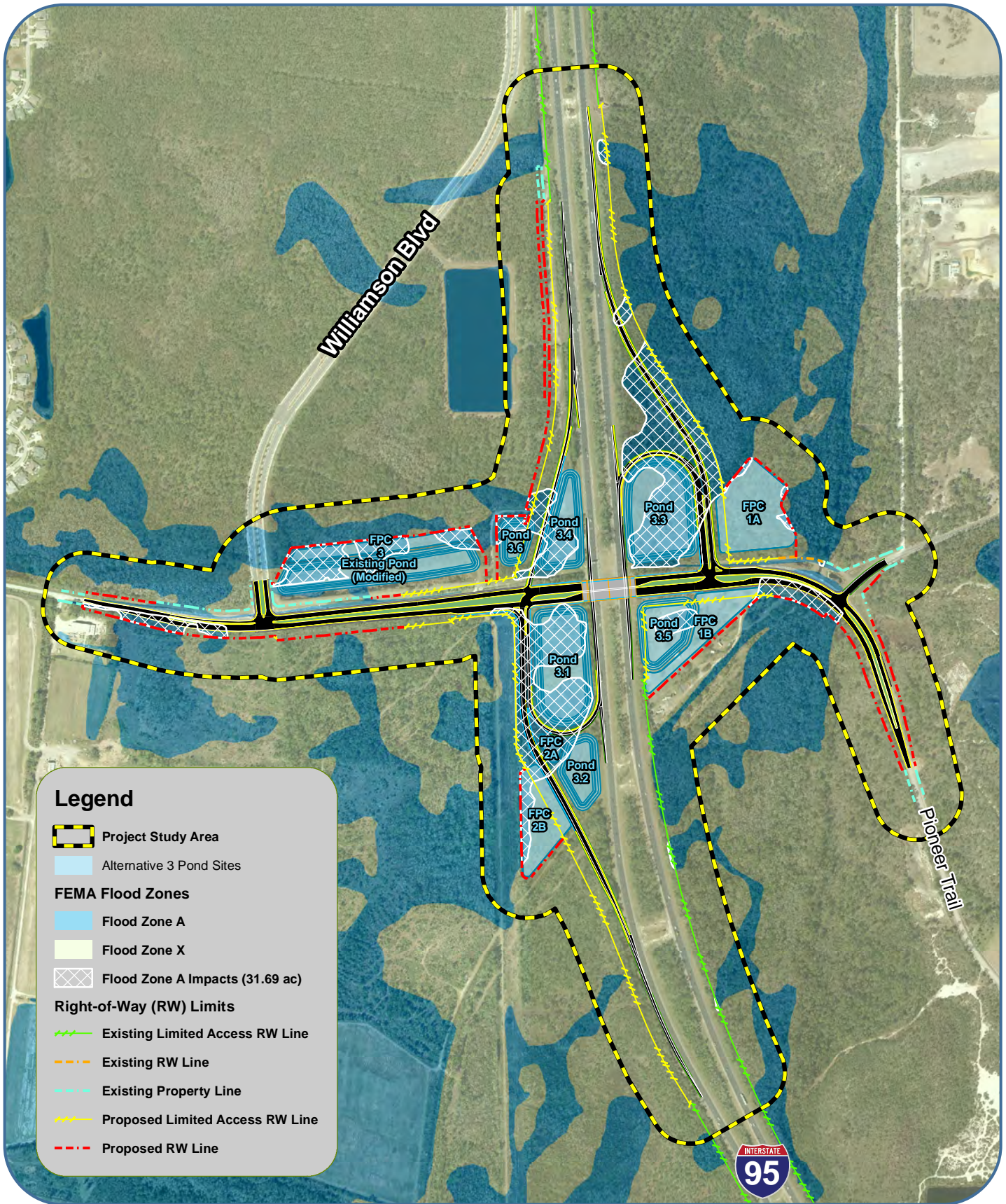




FIGURE 14: FEMA FLOOD ZONES  
AND POTENTIAL IMPACTS - ALTERNATIVE 3

I-95 at Pioneer Trail Interchange  
FM 436292-1-22-01 / ETDM 14193 / Volusia County



**Legend**

- Project Study Area
- Alternative 3 Pond Sites
- FEMA Flood Zones**
- Flood Zone A
- Flood Zone X
- Flood Zone A Impacts (31.69 ac)
- Right-of-Way (RW) Limits**
- Existing Limited Access RW Line
- Existing RW Line
- Existing Property Line
- Proposed Limited Access RW Line
- Proposed RW Line





**FIGURE 15: EXISTING LAND USE**  
I-95 at Pioneer Trail Interchange  
FM 436292-1-22-01 / ETDM 14193 / Volusia County

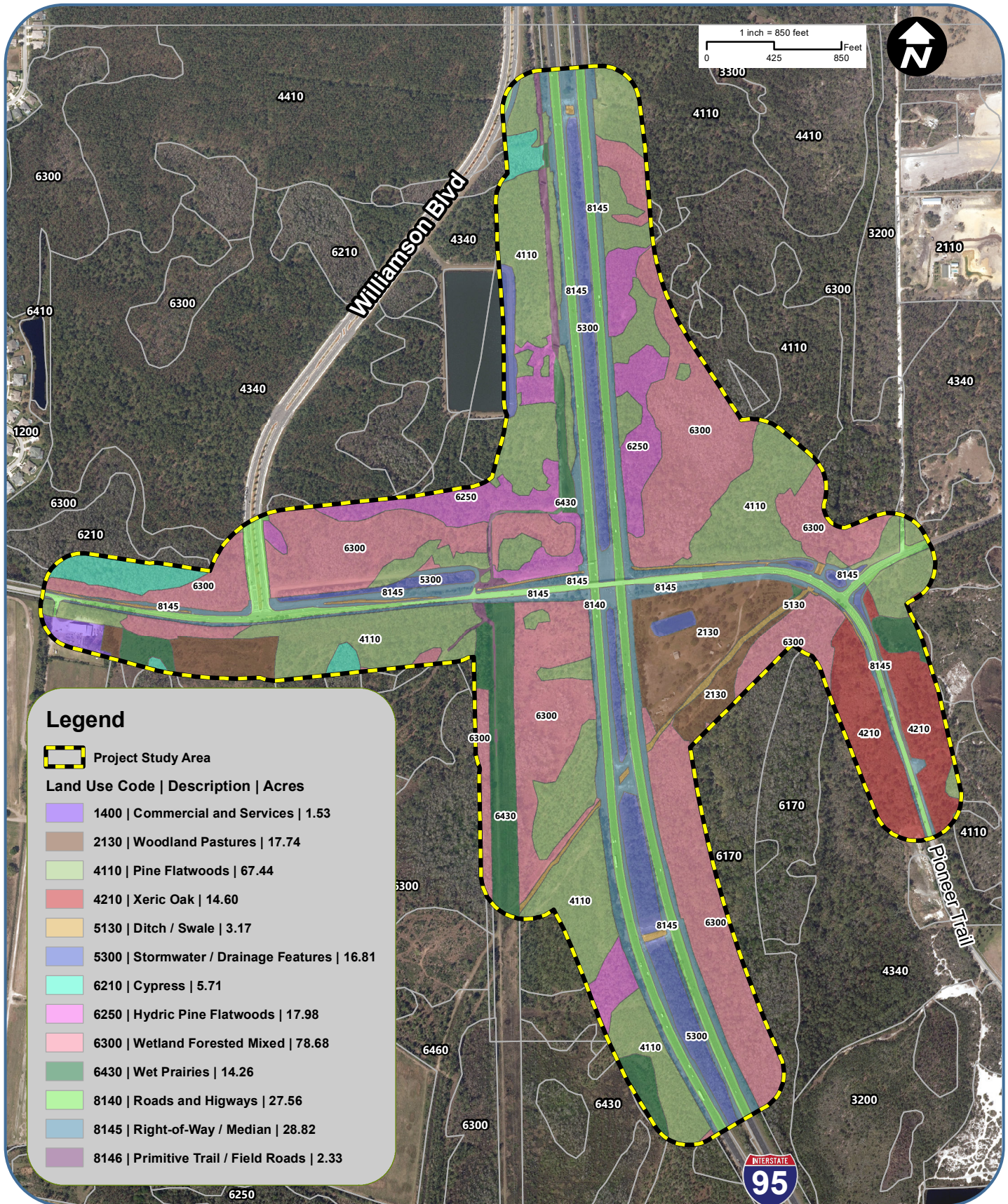






FIGURE 16 : VOLUSIA COUNTY PARCEL BOUNDARIES - ALTERNATIVE 1

I-95 at Pioneer Trail Interchange  
FM 436292-1-22-01 / ETDM 14193 / Volusia County

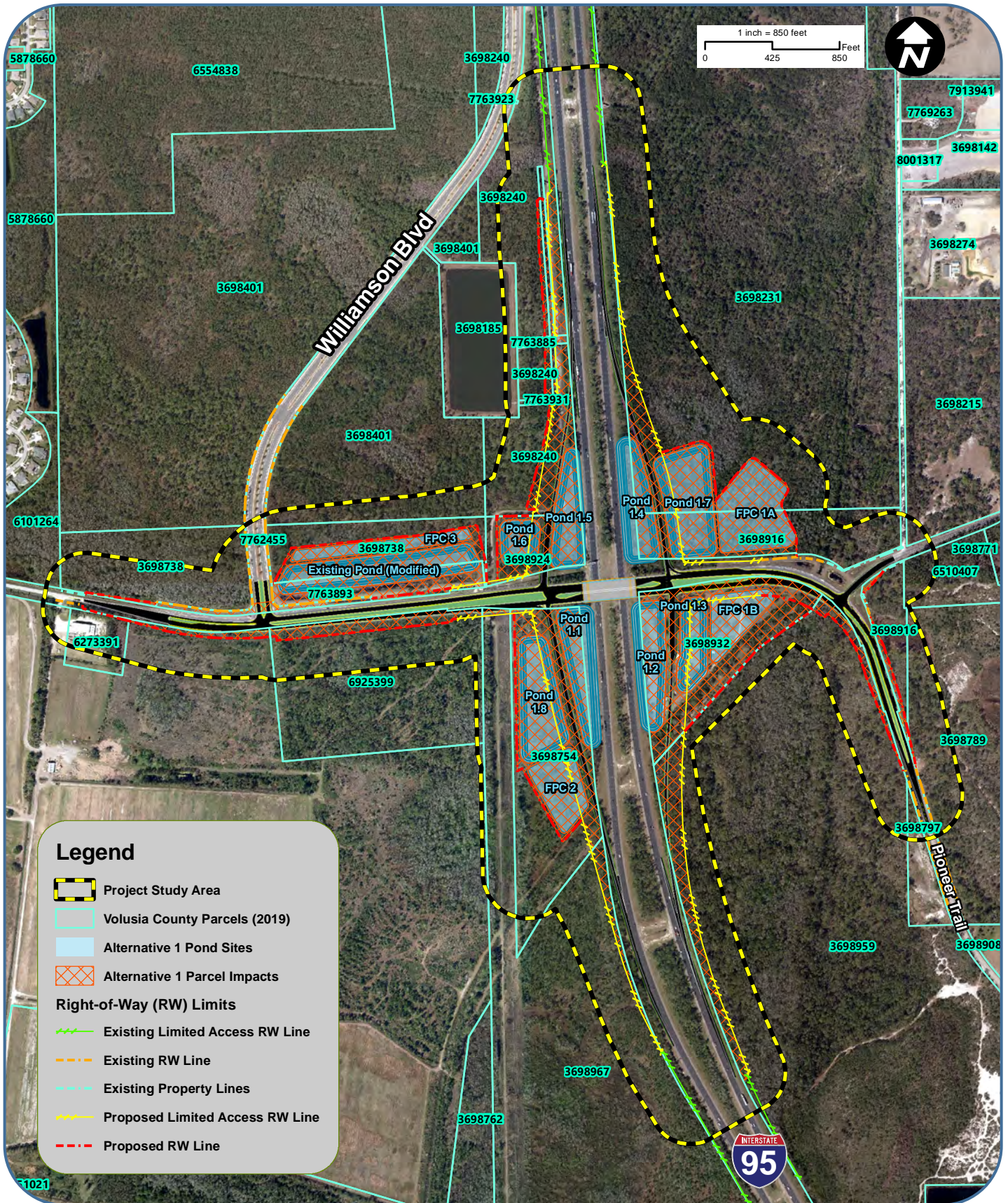






FIGURE 17 : VOLUSIA COUNTY PARCEL BOUNDARIES - ALTERNATIVE 2

I-95 at Pioneer Trail Interchange  
FM 436292-1-22-01 / ETDM 14193 / Volusia County

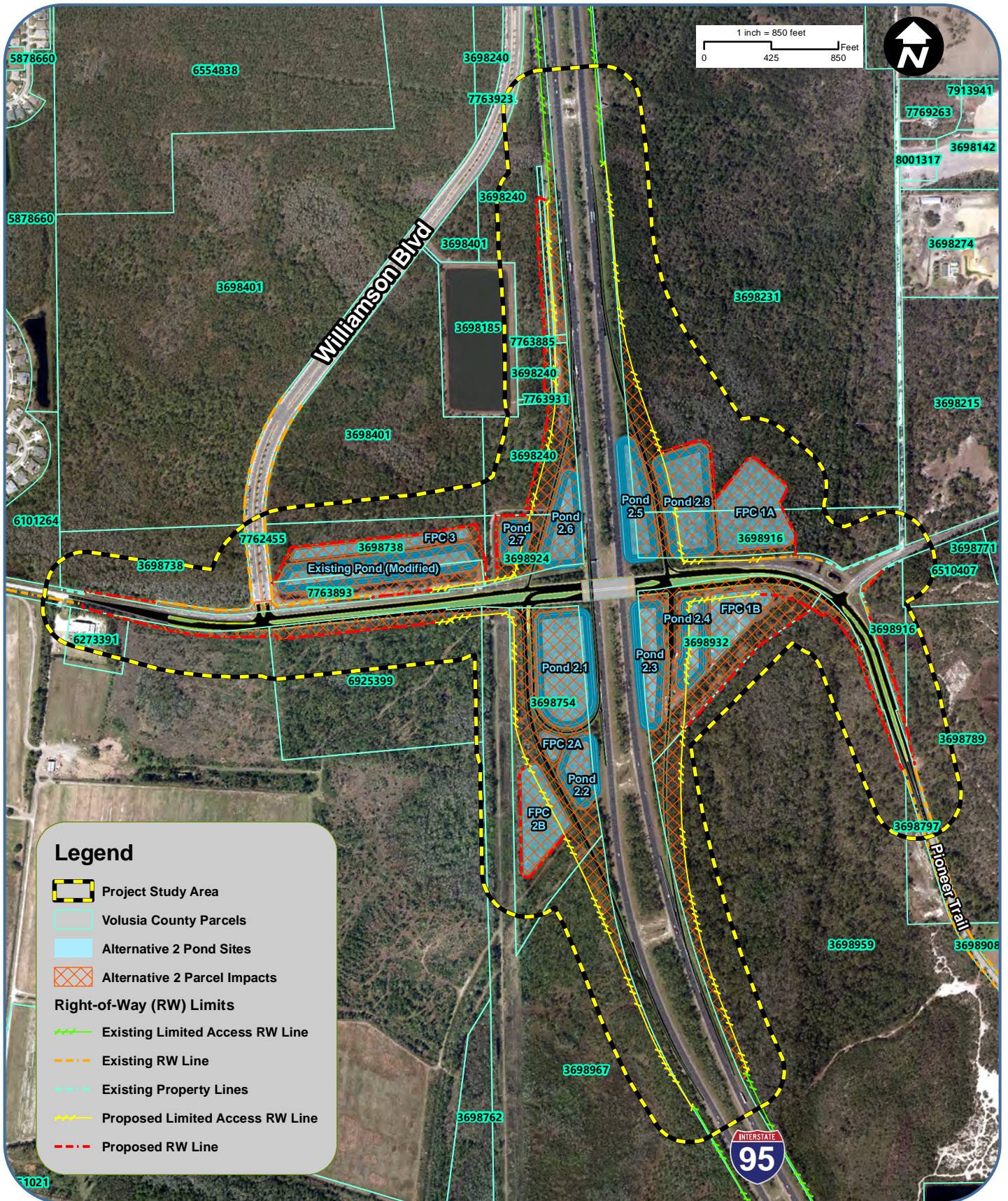
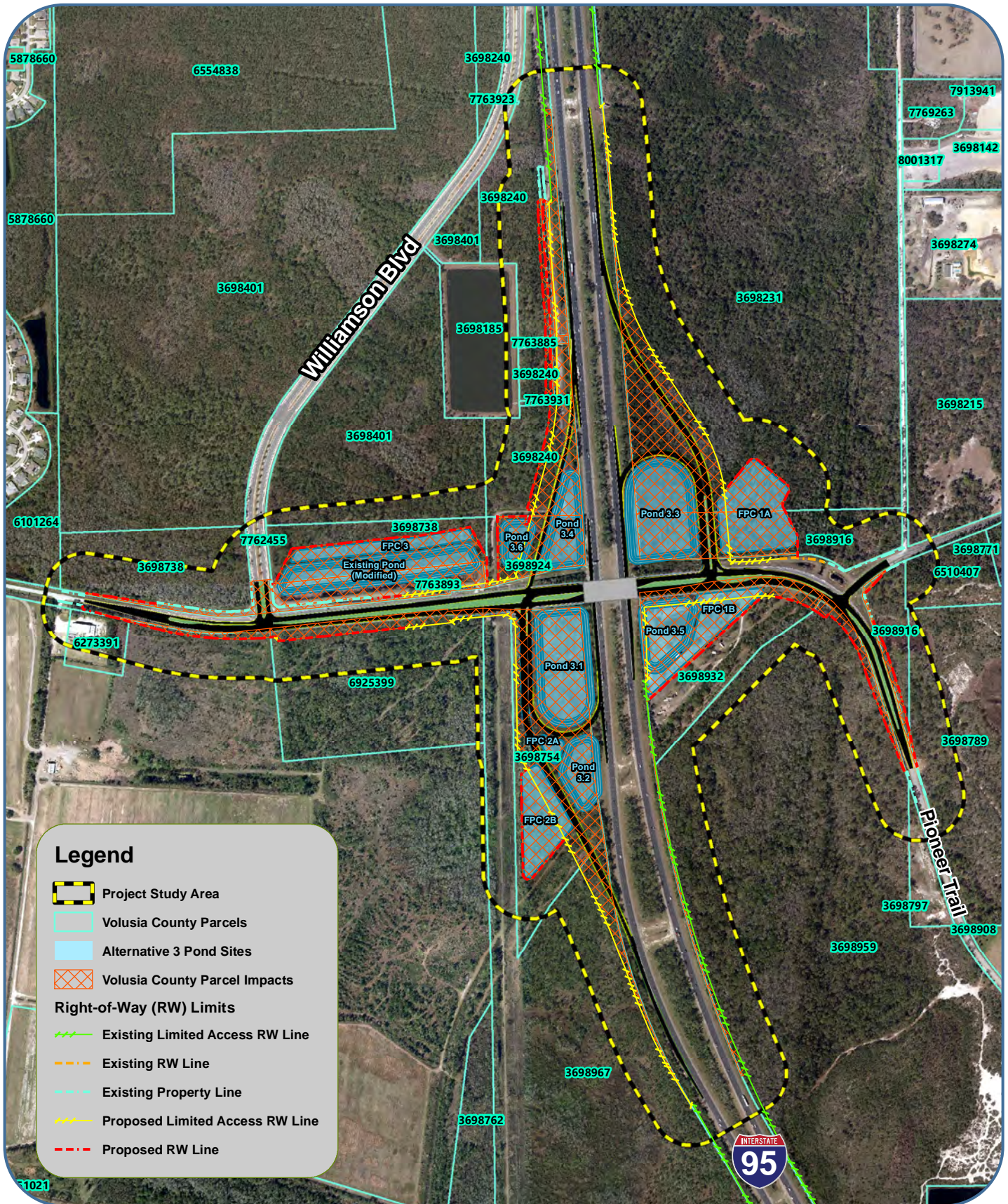




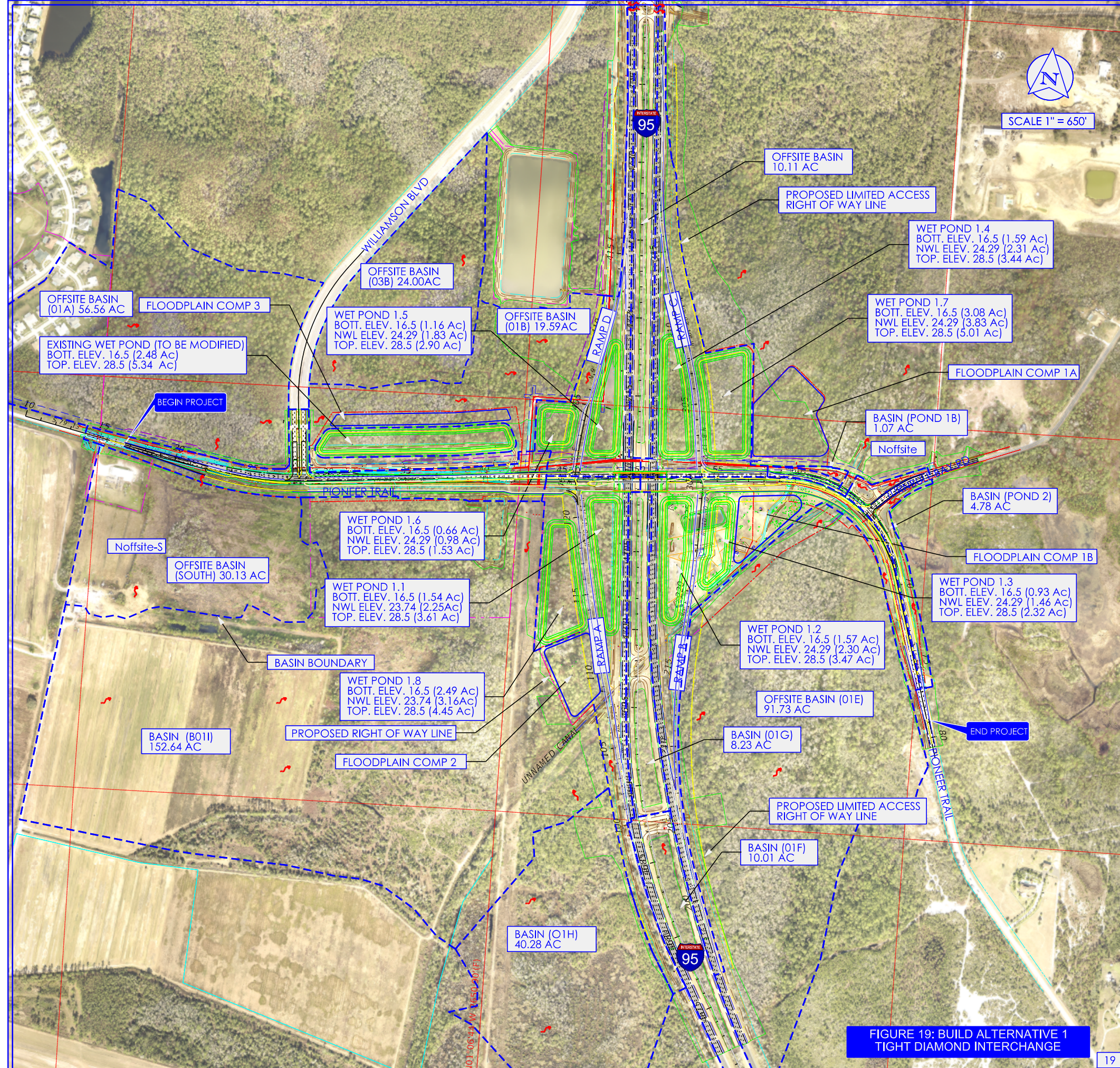


FIGURE 18: VOLUSIA COUNTY PARCEL BOUNDARIES -ALTERNATIVE 3

I-95 at Pioneer Trail Interchange  
FM 436292-1-22-01 / ETDM 14193 / Volusia County







**FIGURE 19: BUILD ALTERNATIVE 1 TIGHT DIAMOND INTERCHANGE**



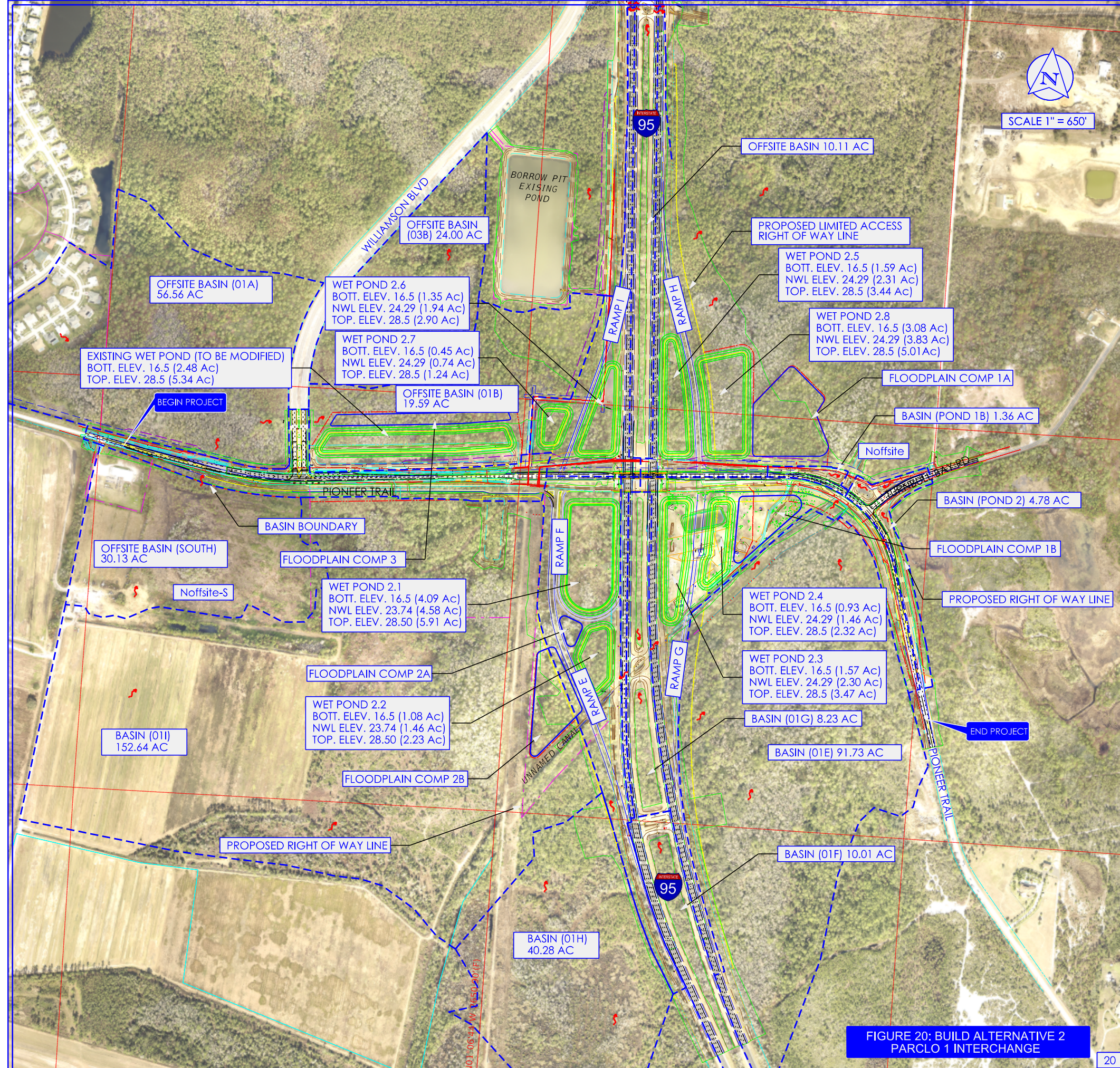


FIGURE 20: BUILD ALTERNATIVE 2  
PARCLO 1 INTERCHANGE



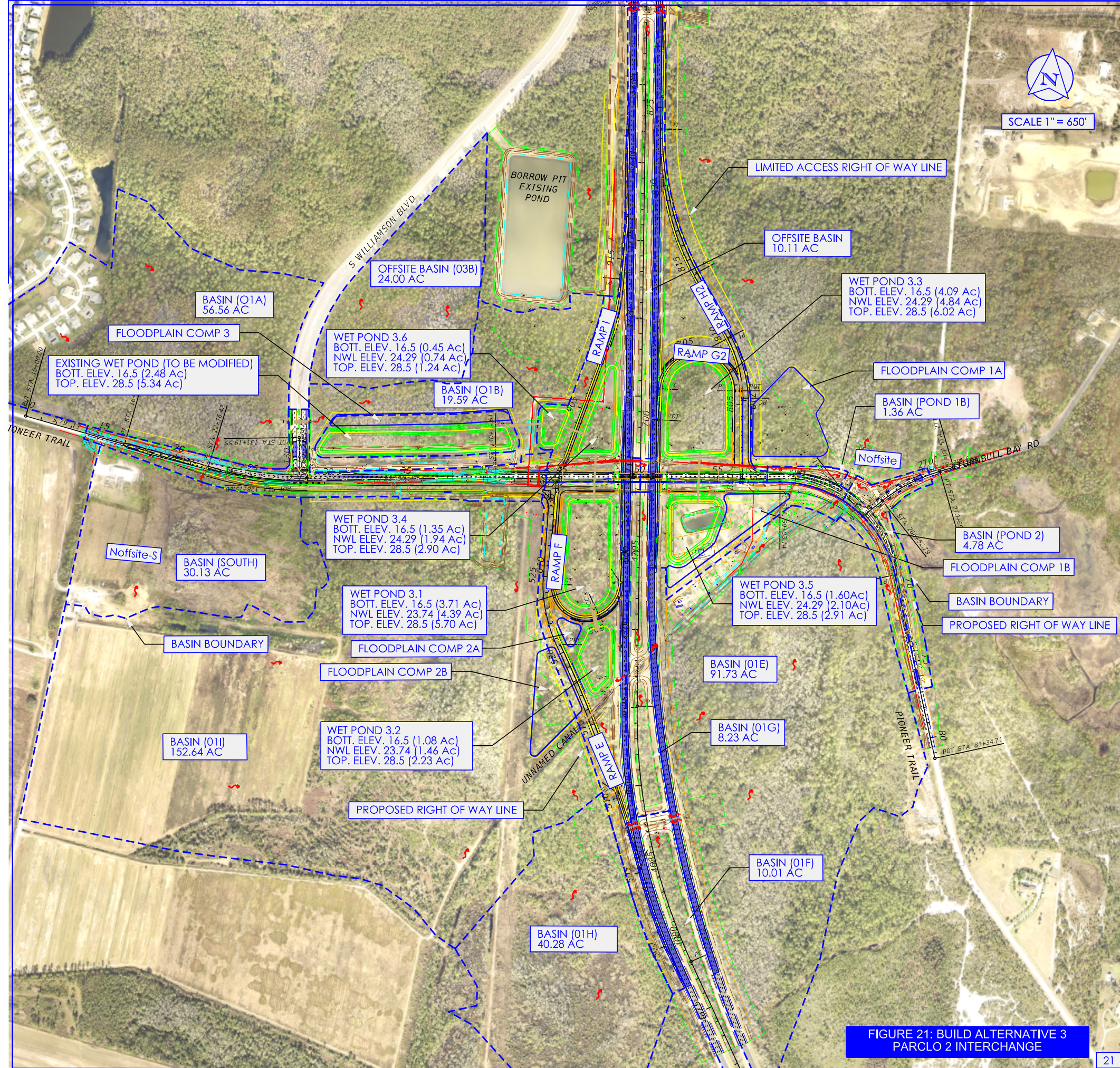
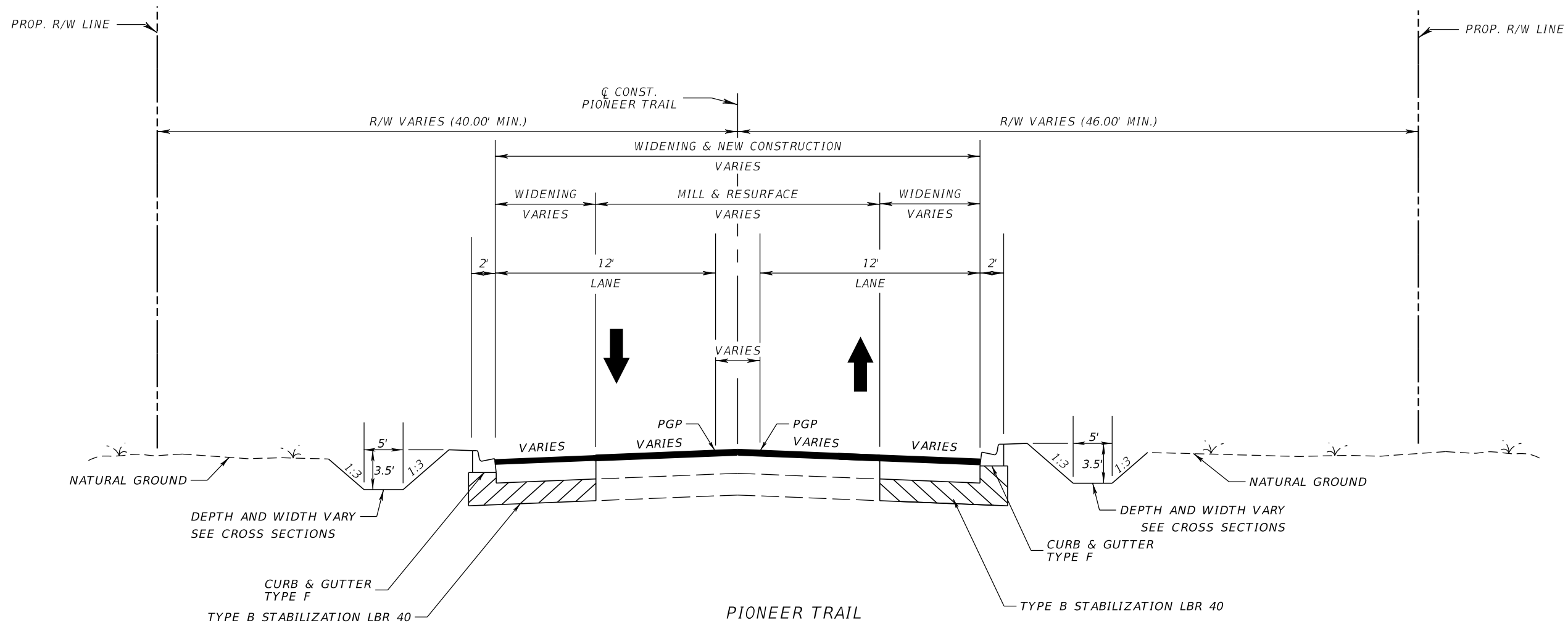


FIGURE 21: BUILD ALTERNATIVE 3  
PARCLO 2 INTERCHANGE



## Appendix B - Typical Sections



STA. 16+59.82 TO STA. 18+54.57 (Q CONST. PIONEER TRAIL)  
 STA. 75+50.00 TO STA. 76+50.00 (Q CONST. PIONEER TRAIL)

**MILLING**

MILL EXISTING ASPHALT  
 PAVEMENT FOR DEPTH (FC ONLY)

**RESURFACING**

RESURFACE WITH SAME FC BEING REMOVED

**NEW CONSTRUCTION**

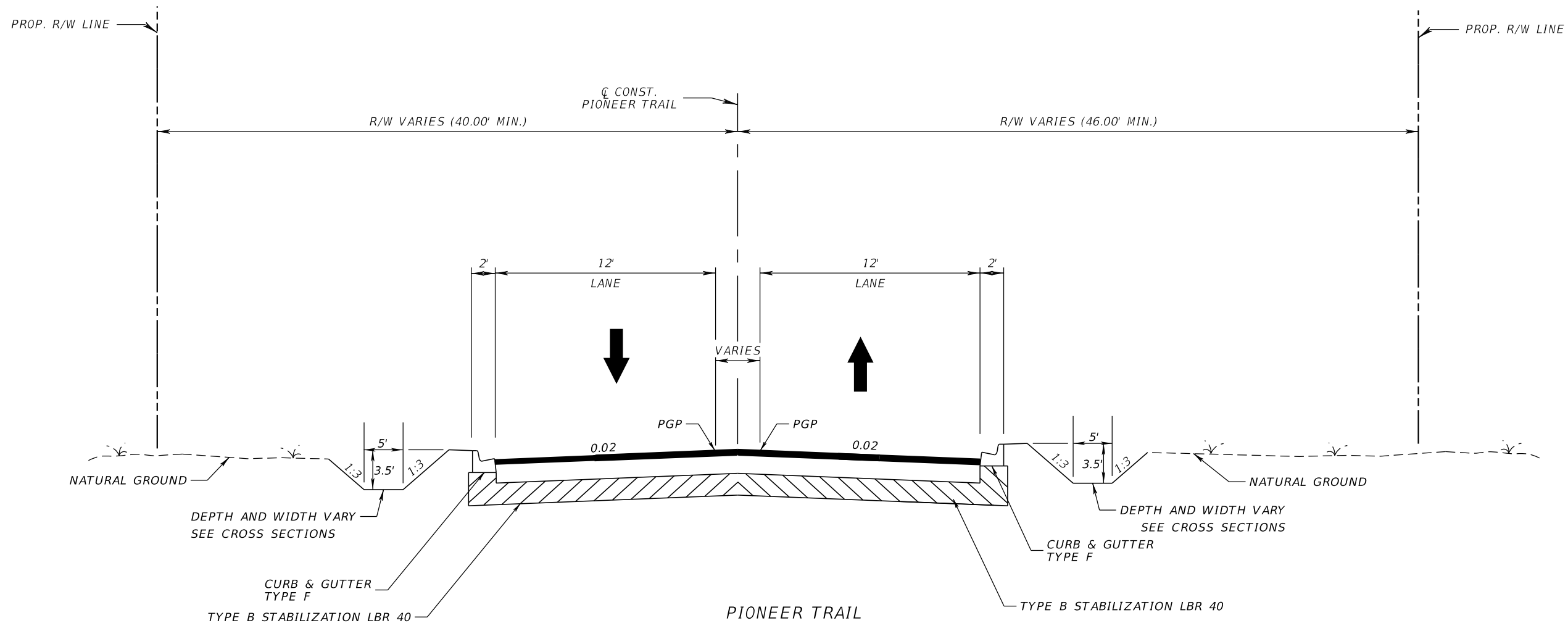
OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	<b>TYPICAL SECTIONS</b>

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



STA. 18+54.57 TO STA. 22+05.42 (Q CONST. PIONEER TRAIL)  
 STA. 73+86.00 TO STA. 75+50.00 (Q CONST. PIONEER TRAIL)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

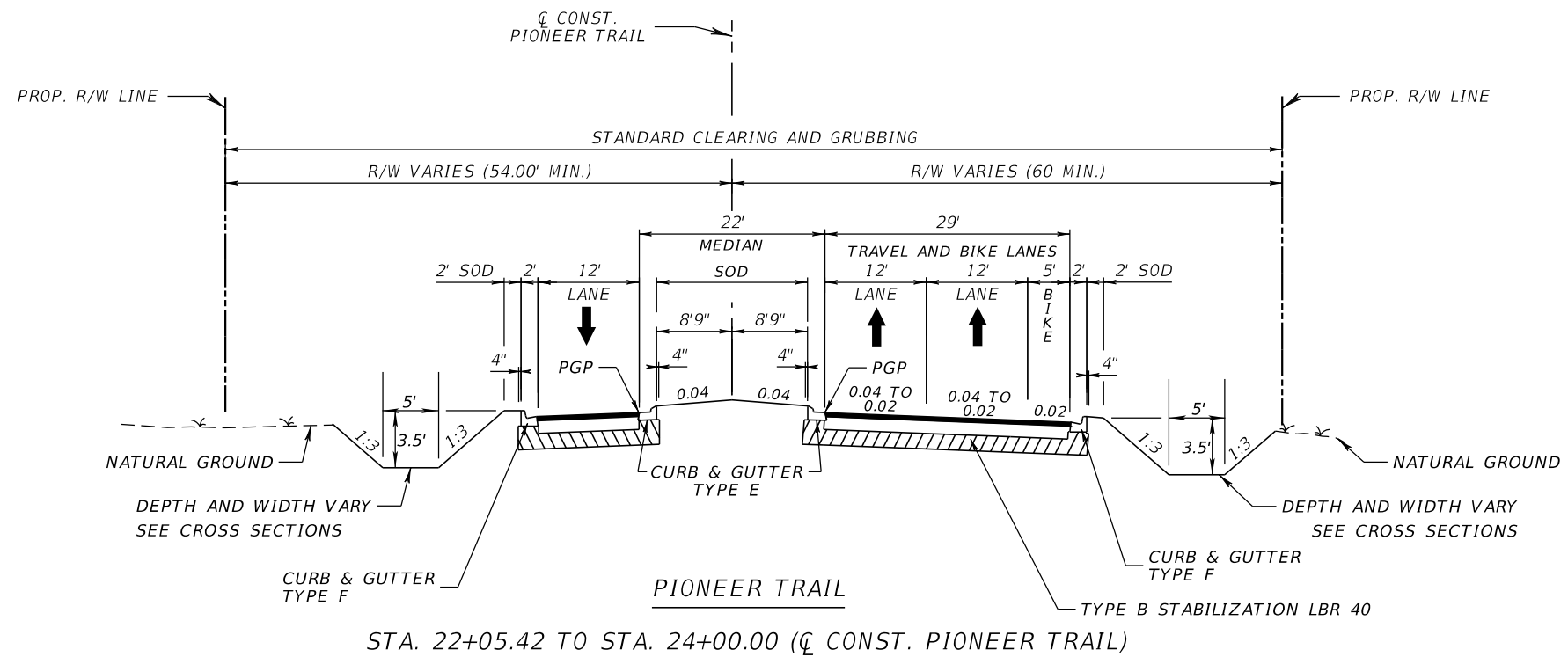
**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	<b>TYPICAL SECTIONS</b>

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





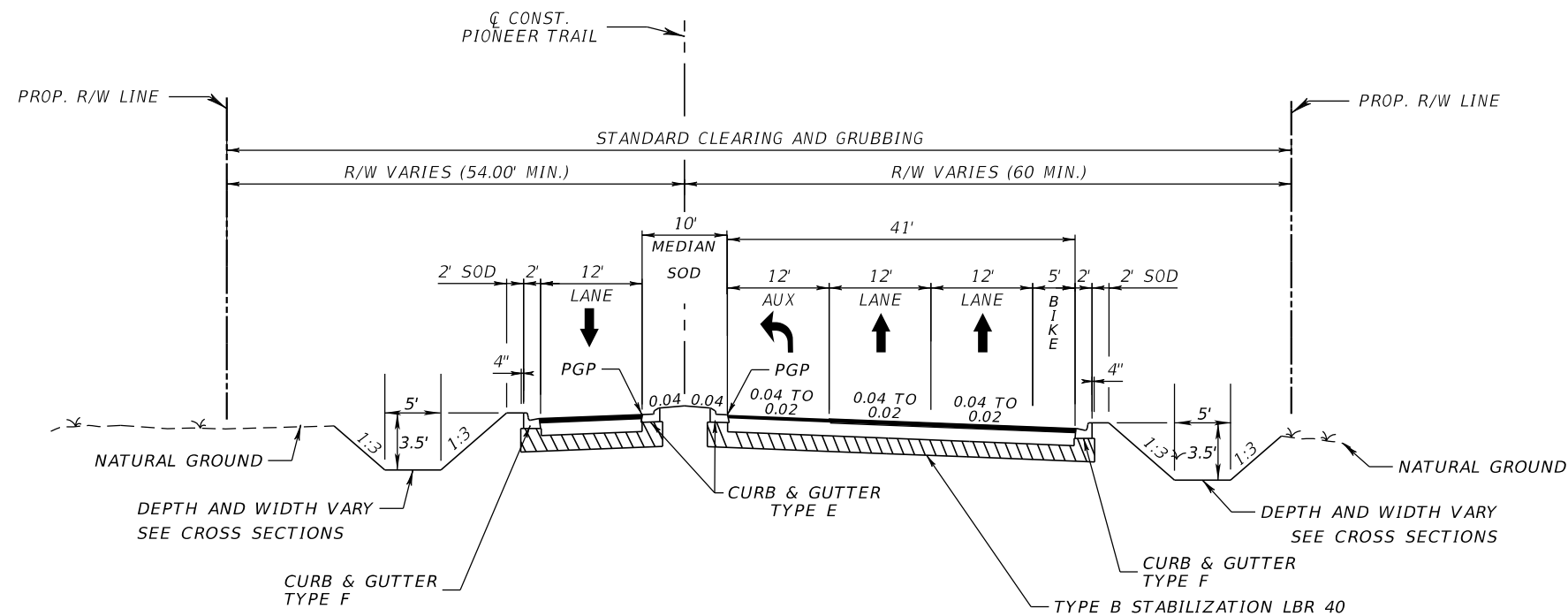
**TRAVEL AND BIKE LANES**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTIONS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					9	VOLUSIA	436292-1-52-01		



**PIONEER TRAIL**  
 STA. 24+00.00 TO STA. 27+22.13 (Q CONST. PIONEER TRAIL)

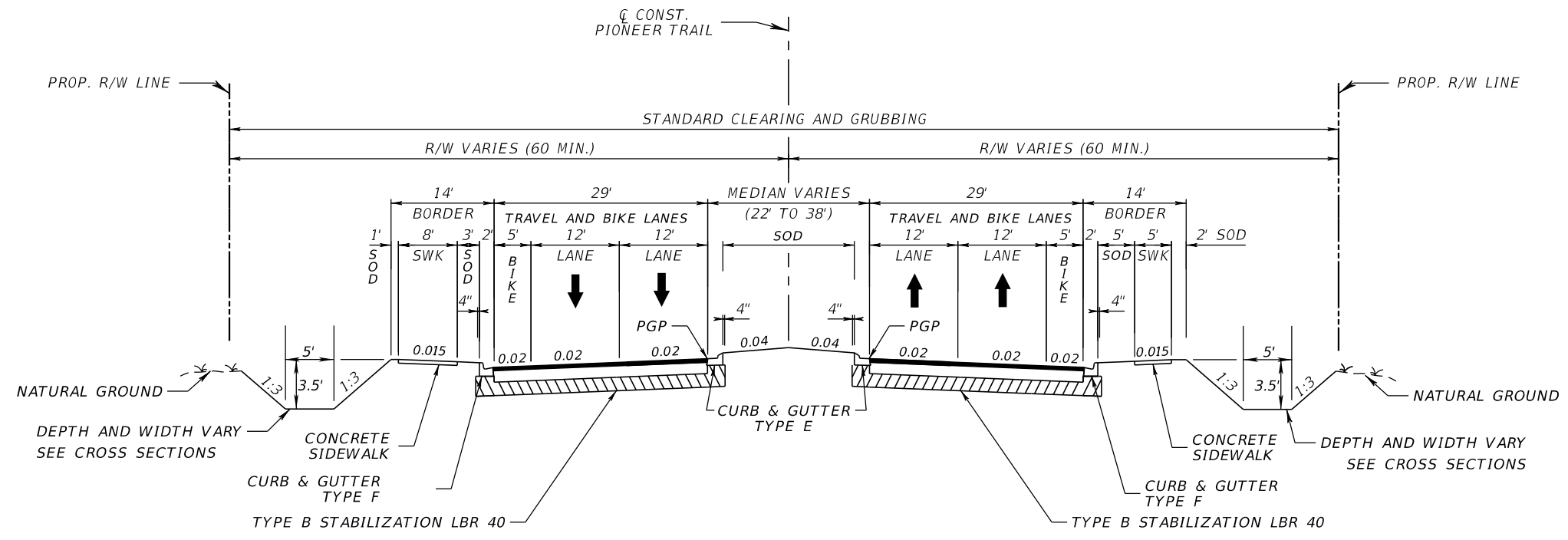
**TRAVEL AND BIKE LANES**  
 OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	<b>TYPICAL SECTIONS</b>





**PIONEER TRAIL**  
 STA. 27+22.13 TO STA. 40+00.00 (Q CONST. PIONEER TRAIL)

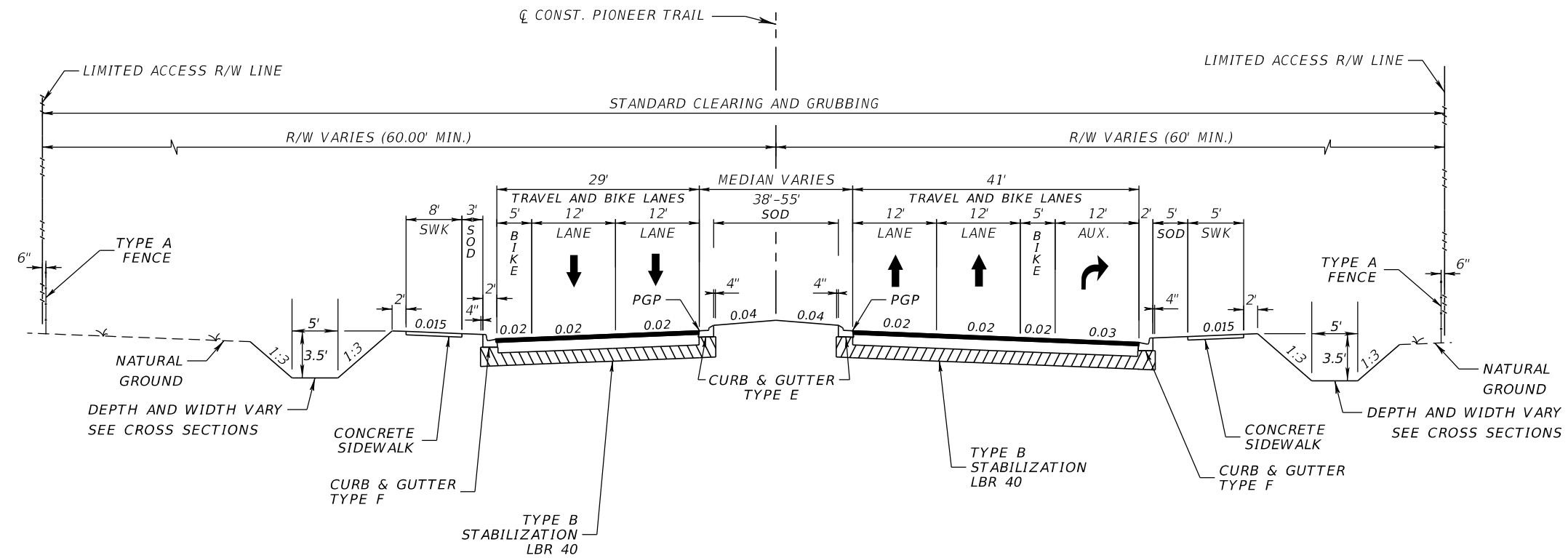
**NEW CONSTRUCTION**  
 OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	<b>TYPICAL SECTIONS</b>

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**PIONEER TRAIL**  
 STA. 40+00.00 TO STA. 45+00.00 (CL CONST. PIONEER TRAIL)

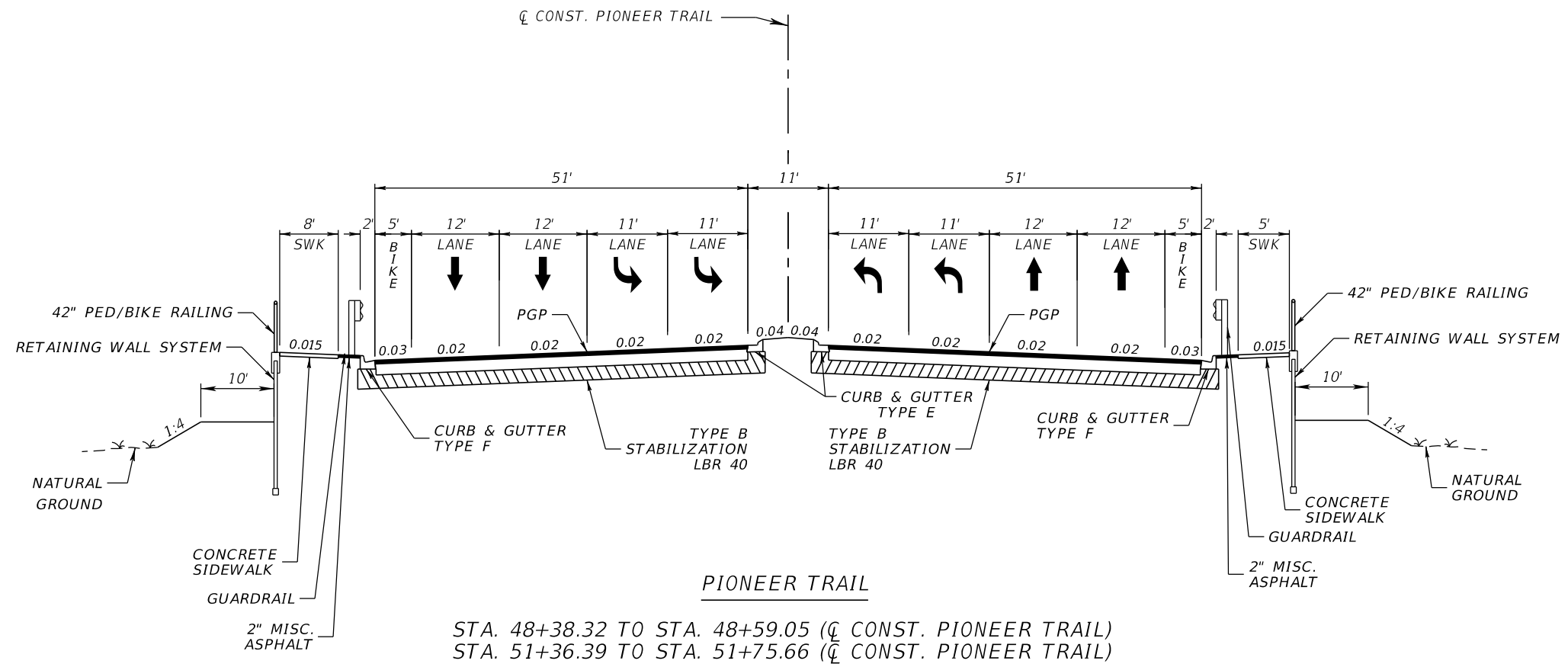
**NEW CONSTRUCTION**  
 OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	<b>TYPICAL SECTIONS</b>





**PIONEER TRAIL**  
 STA. 48+38.32 TO STA. 48+59.05 (C CONST. PIONEER TRAIL)  
 STA. 51+36.39 TO STA. 51+75.66 (C CONST. PIONEER TRAIL)

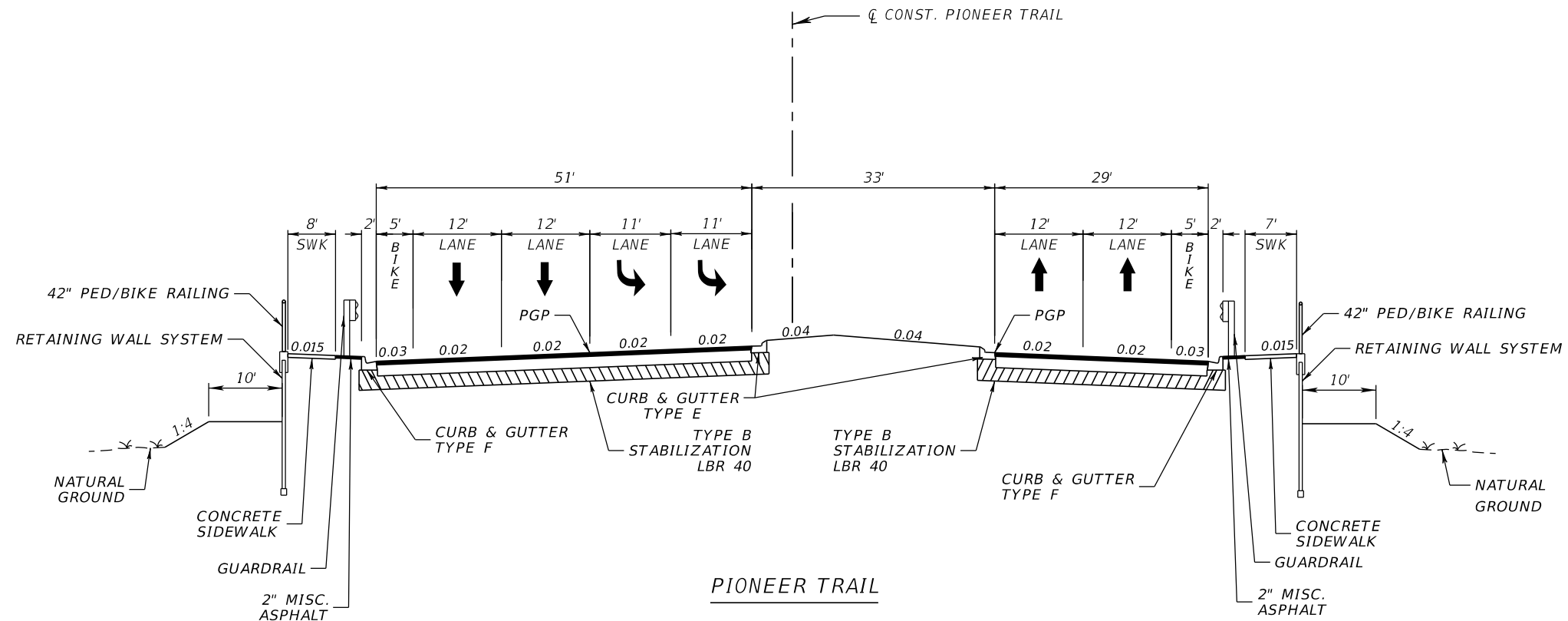
**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					9	VOLUSIA	436292-1-52-01		



STA. 45+00.00 TO STA. 48+38.32 (CL CONST. PIONEER TRAIL)  
 STA. 51+75.66 TO STA. 56+23.56 (CL CONST. PIONEER TRAIL)(MIRRORED)

**PIONEER TRAIL**

**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

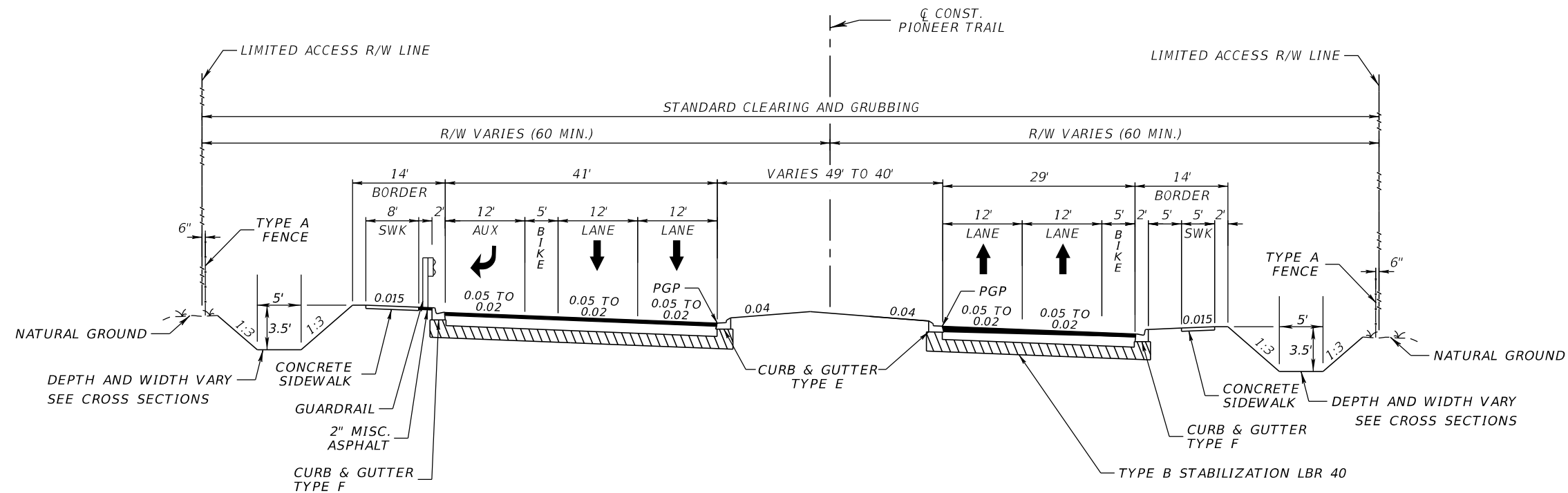
**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	

**TYPICAL SECTIONS**





**PIONEER TRAIL**

STA. 56+23.56 TO STA. 59+10.96 (Q CONST. PIONEER TRAIL)

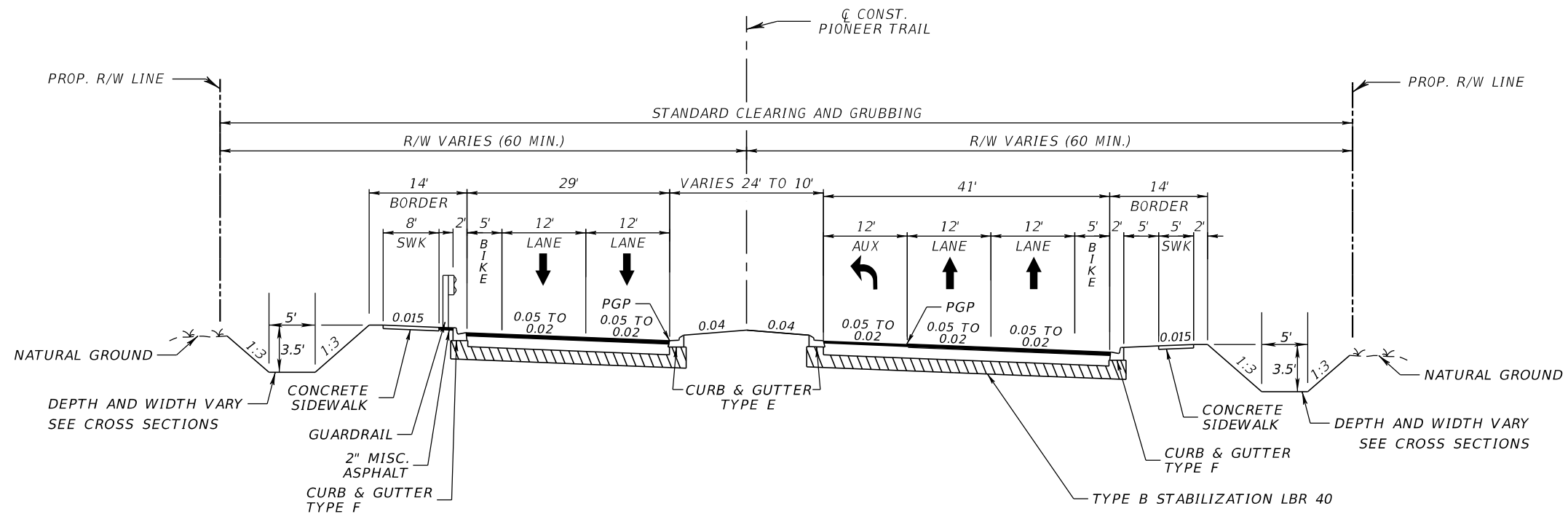
**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	



**PIONEER TRAIL**

STA. 59+10.96 TO STA. 64+71.29 (Q CONST. PIONEER TRAIL)

**NEW CONSTRUCTION**

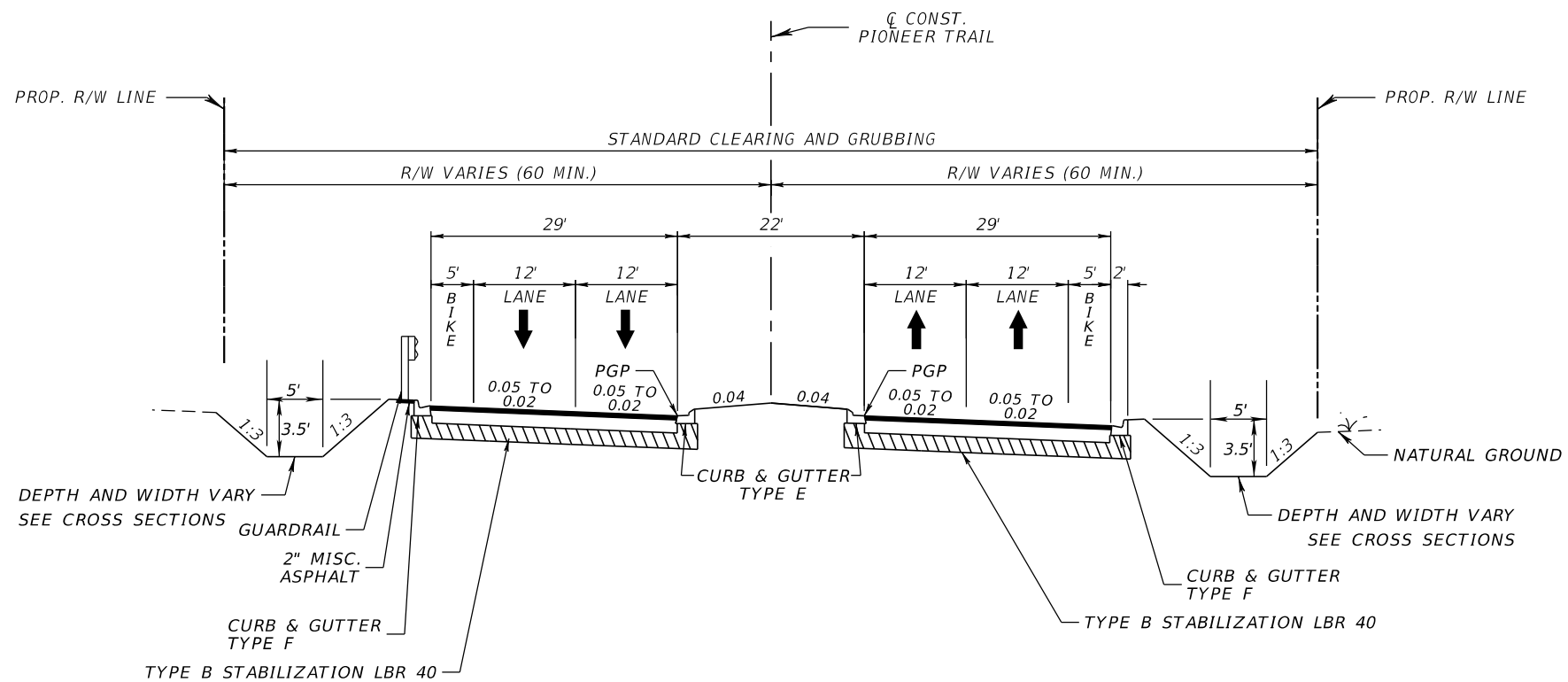
OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	





**PIONEER TRAIL**

STA. 64+71.29 TO STA. 69+21.53 (CL CONST. PIONEER TRAIL)

**NEW CONSTRUCTION**

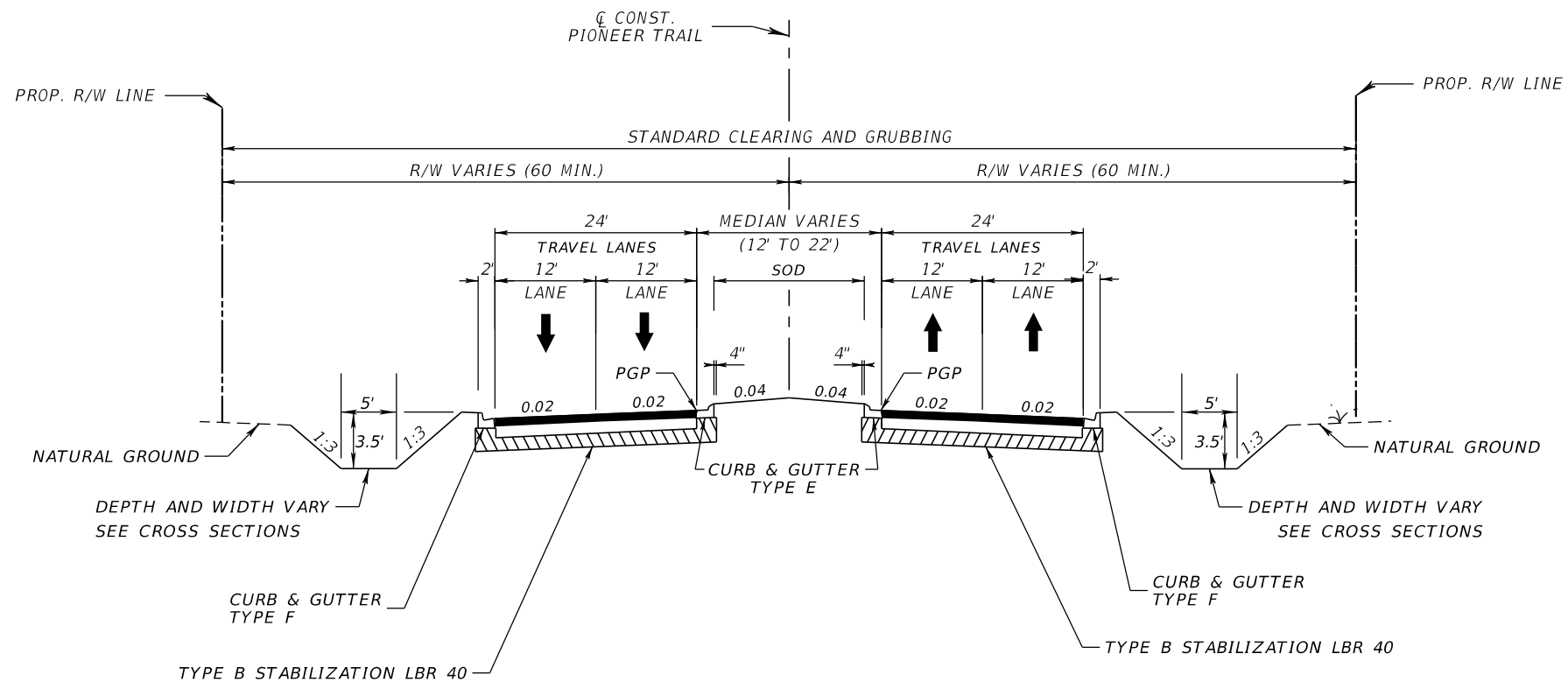
OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	

**TYPICAL SECTIONS**



PIONEER TRAIL

STA. 69+21.53 TO STA. 73+86.00 (Q CONST. PIONEER TRAIL)

**NEW CONSTRUCTION**

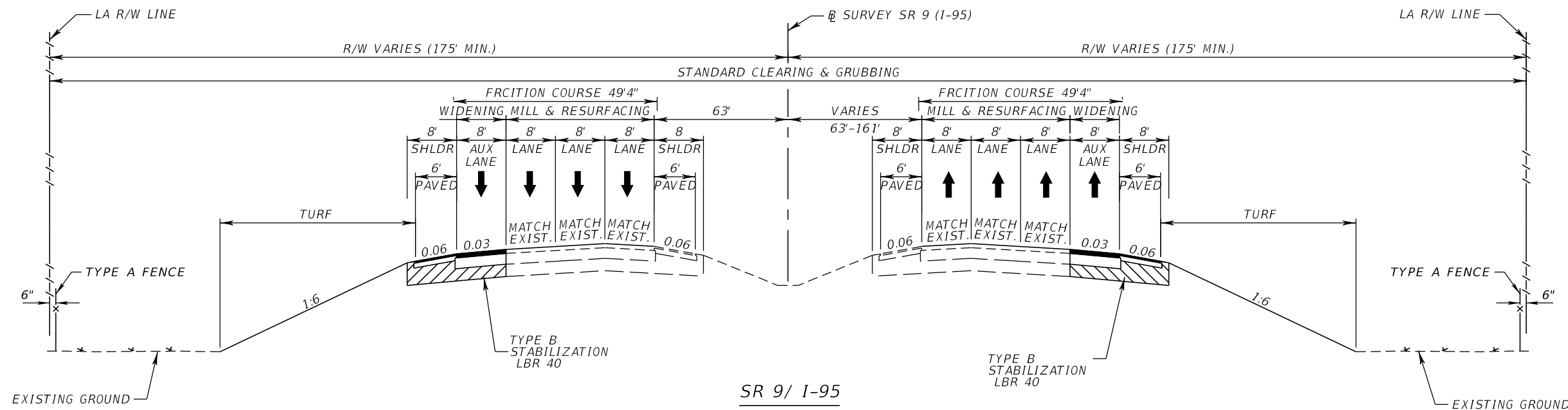
OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	<b>TYPICAL SECTIONS</b>





FROM STA. 4676+81.45 TO STA. 4684+79.12 (SR 9 SOUTHBOUND)  
 FROM STA. 4698+56.42 TO STA. 4714+09.39 (SR 9 SOUTHBOUND)  
 FROM STA. 4719+82.68 TO STA. 4734+14.40 (SR 9 SOUTHBOUND)

FROM STA. 4703+69.22 TO STA. 4719+78.91 (SR 9 NORTHBOUND)  
 FROM STA. 4731+08.50 TO STA. 4739+99.38 (SR 9 NORTHBOUND)

**WIDENING**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC D) (5 3/4") (PG 76-22 in top two lifts)  
 AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

**SHOULDER PAVEMENT**

OPTIONAL BASE GROUP 3 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2 1/2") (PG 76-22)

**MILLING**

MILL EXISTING ASPHALT  
 PAVEMENT FOR DEPTH (2 1/4")

**RESURFACING**

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (1 1/2") (PG 76-22)  
 AND FRICTION COURSE FC-5 (3/4") (PG 76-22)

**TRAFFIC DATA**

YEAR = 2018 AADT = 46,000  
 ESTIMATED OPENING YEAR = 2025 AADT = 56,000  
 ESTIMATED DESIGN YEAR = 2045 AADT = 83,000  
 K = 9.00% D = 55.00% T = 13.00% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 70 MPH

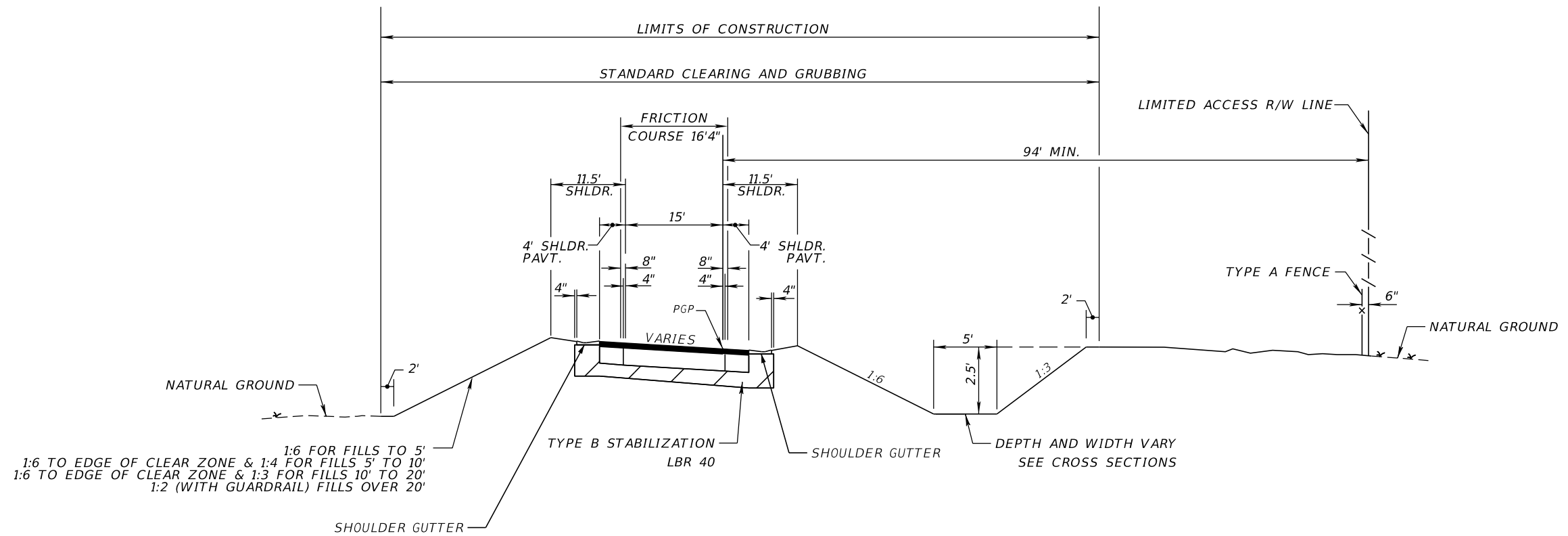
WILLIAM H. COOK, P.E.  
 P.E. LICENSE NUMBER 54693  
 STANTEC CONSULTING SERVICES INC.  
 11315 CORPORATE BLVD., SUITE 105  
 ORLANDO, FLORIDA 32817

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
9	VOLUSIA	436292-1-52-01

**TYPICAL SECTIONS**

SHEET NO.



1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'  
 1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'  
 1:2 (WITH GUARDRAIL) FILLS OVER 20'

**SR 9 / PIONEER TRAIL INTERCHANGE**

**SINGLE LANE RAMP**

- STA. 500+00.00 TO STA. 515+50.00 (B) CONST. RAMP E
- STA. 601+34.95 TO STA. 608+88.63 (B) CONST. RAMP F
- STA. 701+07.02 TO STA. 709+36.77 (B) CONST. RAMP G
- STA. 816+50.00 TO STA. 825+71.34 (B) CONST. RAMP H
- STA. 900+00.00 TO STA. 917+82.40 (B) CONST. RAMP I

**RAMP F**

ESTIMATED OPENING YEAR = 2025 AADT = 1,200  
 ESTIMATED DESIGN YEAR = 2045 AADT = 3,700  
 K = 9.0% D = 100% T = 13.0% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED - 30 MPH

**RAMP G**

ESTIMATED OPENING YEAR = 2025 AADT = 2,000  
 ESTIMATED DESIGN YEAR = 2045 AADT = 6,000  
 K = 9.0% D = 100% T = 13.0% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 30-50 MPH

**RAMP I**

ESTIMATED OPENING YEAR = 2025 AADT = 1,600  
 ESTIMATED DESIGN YEAR = 2045 AADT = 4,700  
 K = 9.0% D = 100% T = 13.0% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 25-50 MPH

**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/4") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**SHOULDER PAVEMENT**

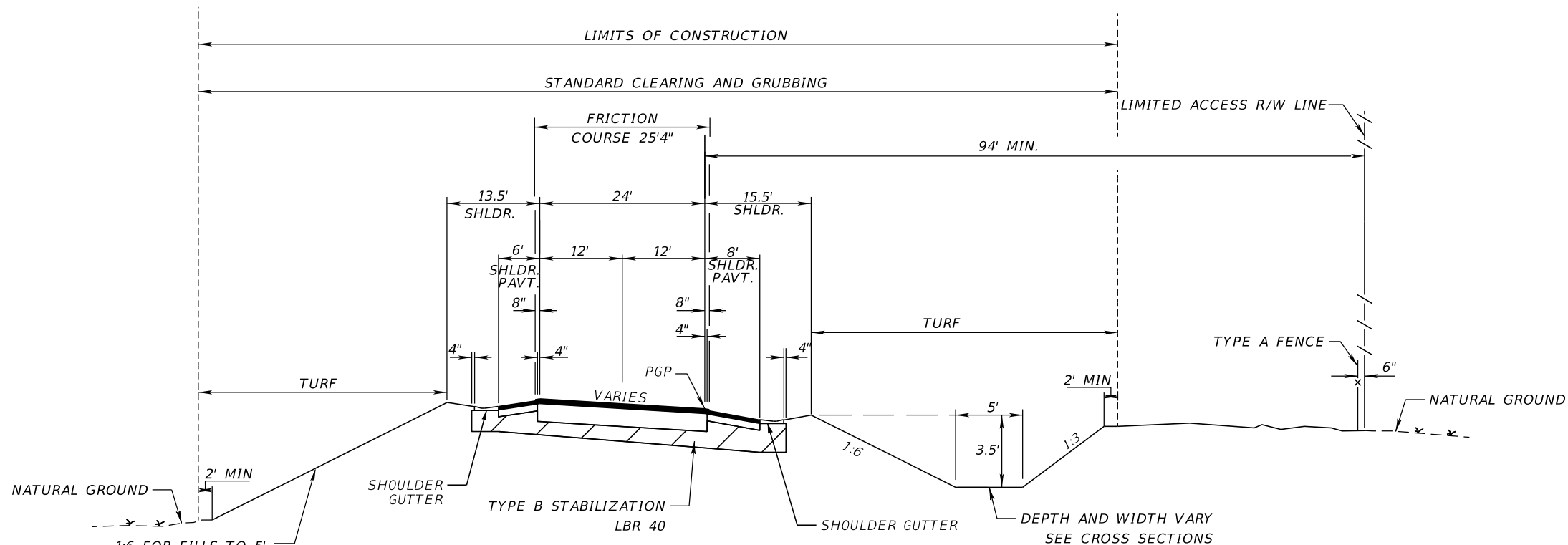
OPTIONAL BASE GROUP 2 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1 1/2") (PG 76-22)

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	

**TYPICAL SECTIONS**



1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'  
 1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'  
 1:2 (WITH GUARDRAIL) FILLS OVER 20'



**SR 9 / PIONEER TRAIL INTERCHANGE**

**DUAL LANE RAMP**

STA. 515+50.00 TO STA. 524+64.61 (B CONST. RAMP E)  
 STA. 805+38.76 TO STA. 816+50.00 (B CONST. RAMP H)

**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/4") (PG 76-22)  
 AND FRICTION COURSE FC-12.5 (1 1/2") (PG 76-22)

**SHOULDER PAVEMENT**

OPTIONAL BASE GROUP 2 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1 1/2") (PG 76-22)

**RAMP E**

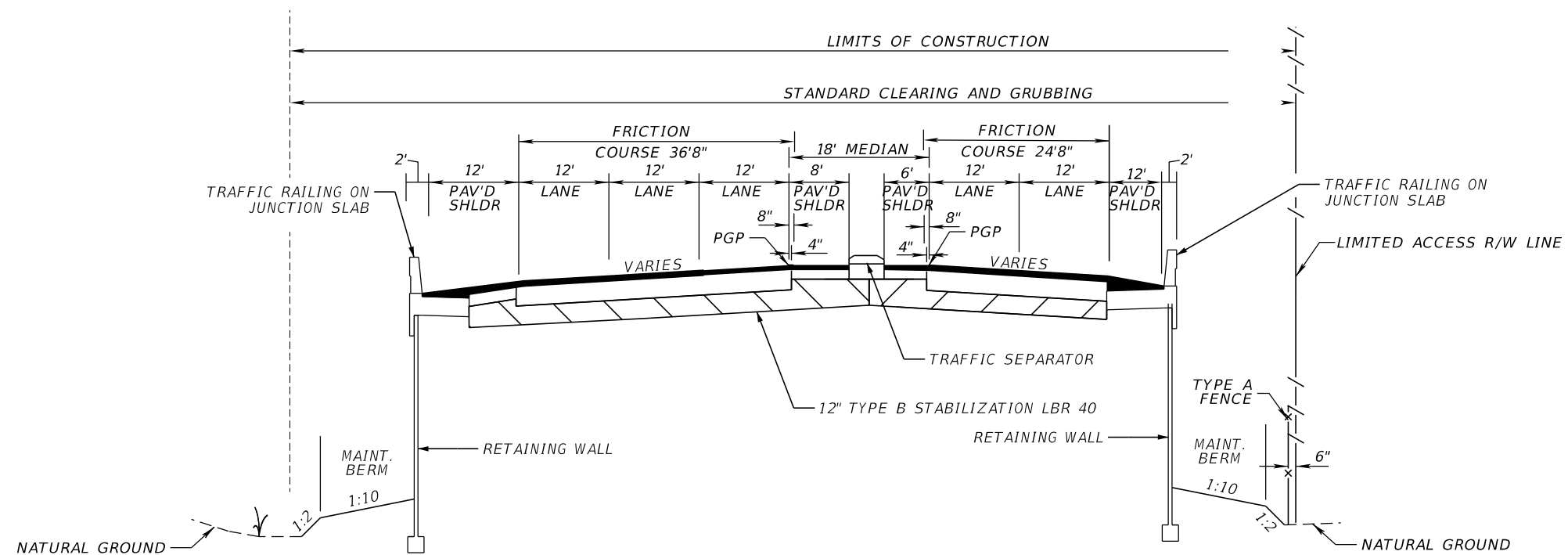
ESTIMATED OPENING YEAR = 2025 AADT = 2,000  
 ESTIMATED DESIGN YEAR = 2045 AADT = 6,000  
 K = 9.0% D = 100% T = 13.0% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 35-50 MPH

**RAMP H**

ESTIMATED OPENING YEAR = 2025 AADT = 2,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 8,400  
 K = 9.0% D = 100% T = 13.0% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 40-50 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	

**TYPICAL SECTIONS**



**SR 9 / PIONEER TRAIL INTERCHANGE**

**MULTI-LANE RAMPS**

STA. 524+64.61 TO STA. 530+51.56 (Ⓡ CONST. RAMP E/F)

**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/4") (PG 76-22)  
 AND FRICION COURSE FC-12.5 (1 1/2") (PG 76-22)

**SHOULDER PAVEMENT**

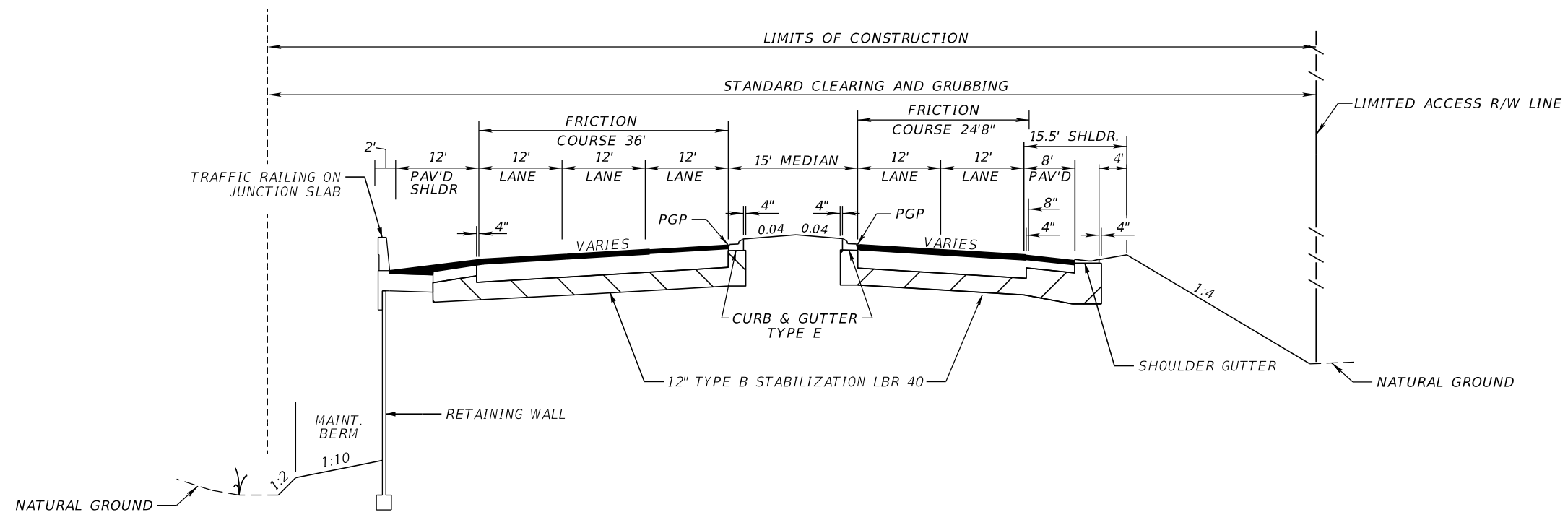
OPTIONAL BASE GROUP 2 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1 1/2") (PG 76-22)

**RAMP E**

ESTIMATED OPENING YEAR = 2025 AADT = 2,000  
 ESTIMATED DESIGN YEAR = 2045 AADT = 6,000  
 K = 9.0% D = 100% T = 13.0% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 35-50 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	





SR 9 / PIONEER TRAIL INTERCHANGE

MULTI-LANE RAMPS

STA. 800+47.50 TO STA. 805+38.76 (B CONST. RAMP G/H)

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/4") (PG 76-22)  
 AND FRICITION COURSE FC-12.5 (1 1/2") (PG 76-22)

SHOULDER PAVEMENT

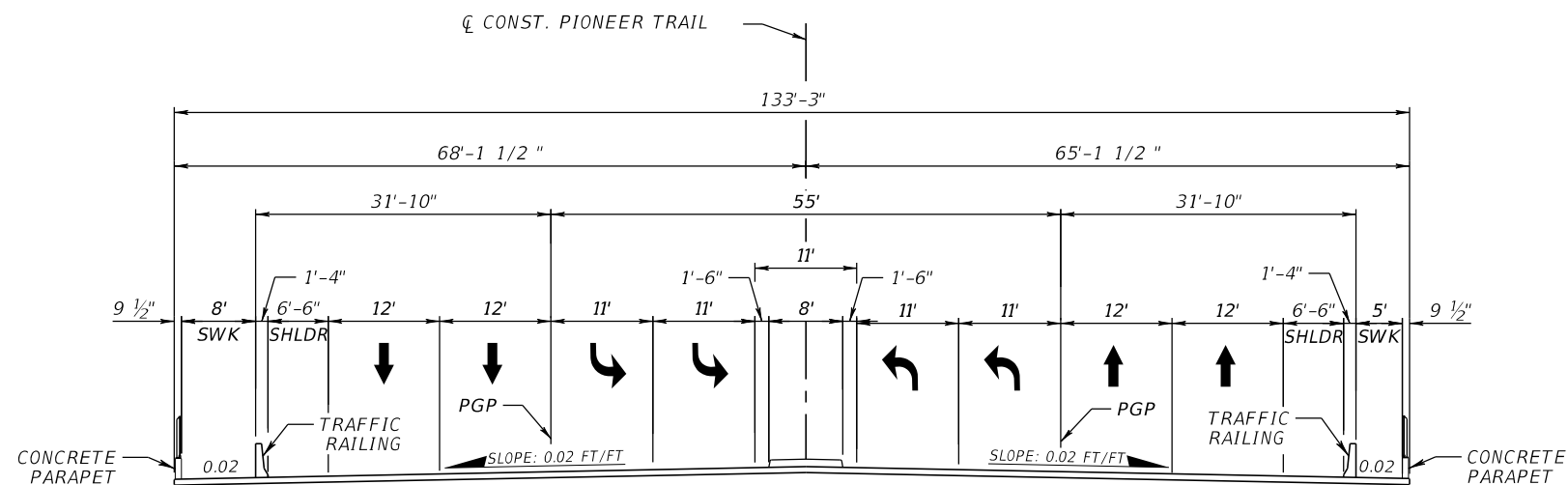
OPTIONAL BASE GROUP 2 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1 1/2") (PG 76-22)

RAMP H

ESTIMATED OPENING YEAR = 2025 AADT = 2,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 8,400  
 K = 9.0% D = 100% T = 13.0% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 40-50 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	

**TYPICAL SECTIONS**



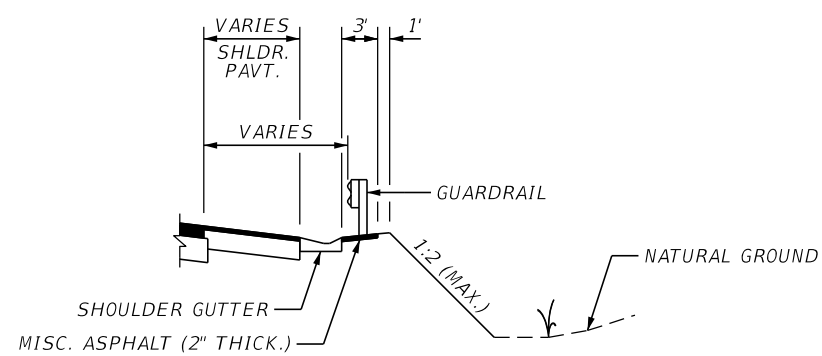
**PIONEER TRAIL OVER I-95 (BRIDGE No. TBD)**  
 STA. 48+59.05 TO STA. 51+36.39 (Q̄ CONST. PIONEER TRAIL)

**TRAFFIC DATA**

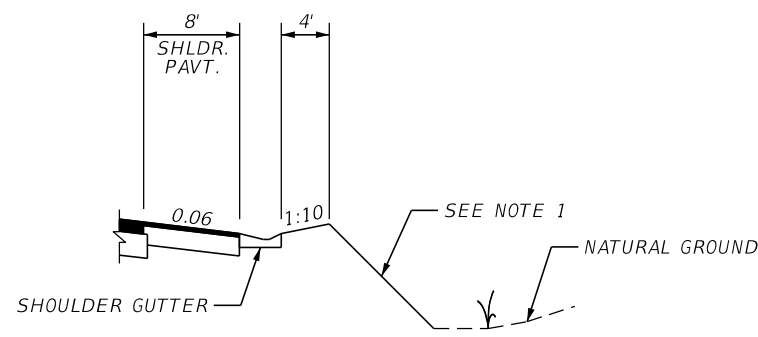
CURRENT YEAR = 2019 AADT = 8,100  
 ESTIMATED OPENING YEAR = 2025 AADT = 9,800  
 ESTIMATED DESIGN YEAR = 2045 AADT = 24,000  
 K = 9.00% D = 55.80% T = 3.90% (24 HOUR)  
 DESIGN HOUR T =  
 DESIGN SPEED = 45 MPH

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTIONS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					9	VOLUSIA	436292-1-52-01		

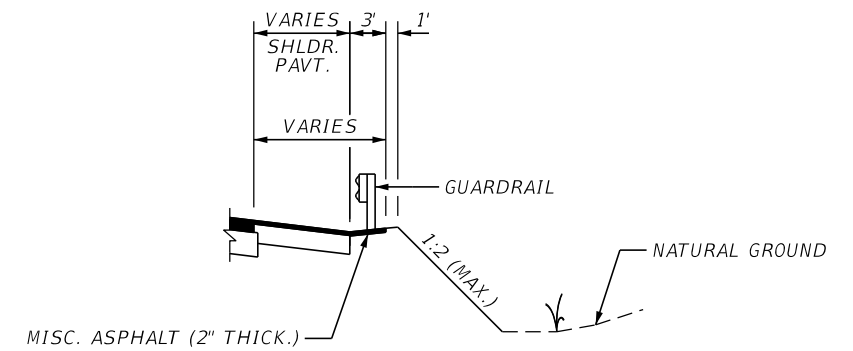




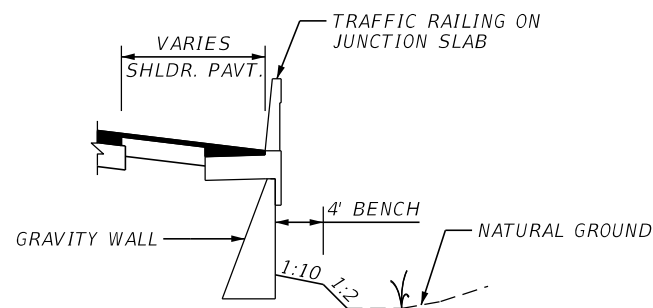
**PARTIAL DETAIL**  
**GUARDRAIL WITH SHOULDER GUTTER FILL HEIGHTS < 20'**



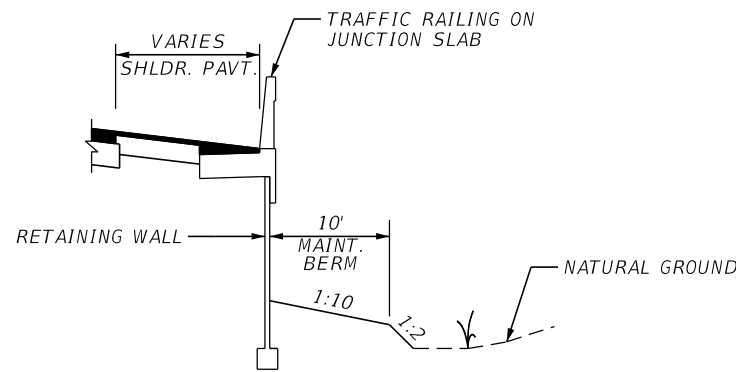
**PARTIAL DETAIL**  
**SHOULDER GUTTER**



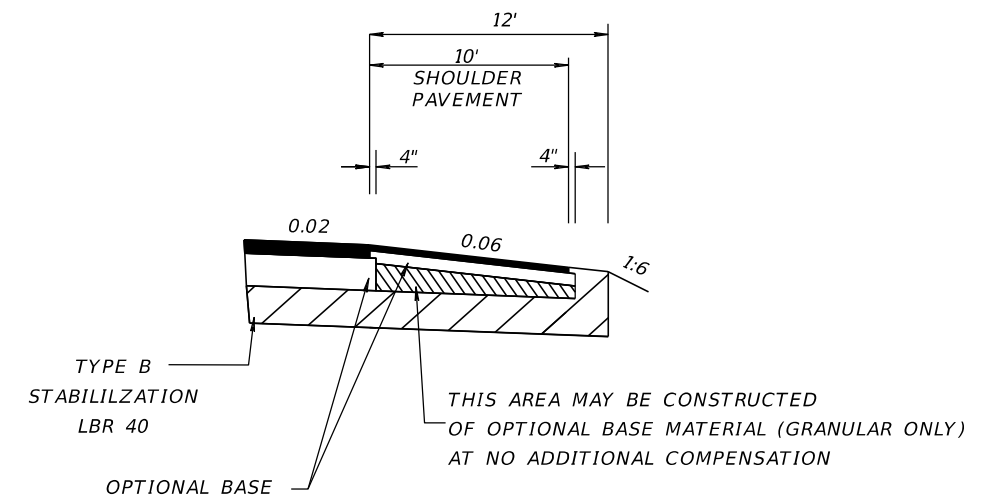
**PARTIAL DETAIL**  
**GUARDRAIL FILL HEIGHTS < 20'**



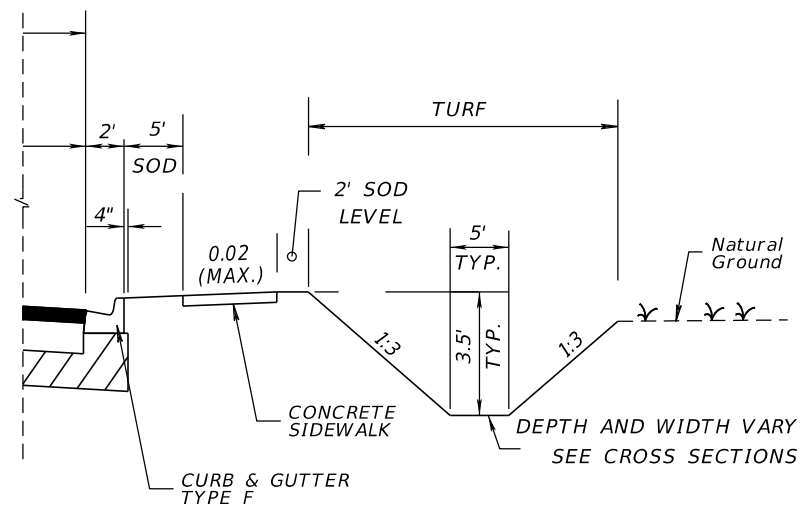
**PARTIAL DETAIL**  
**GRAVITY WALL FILL HEIGHTS < 5'**



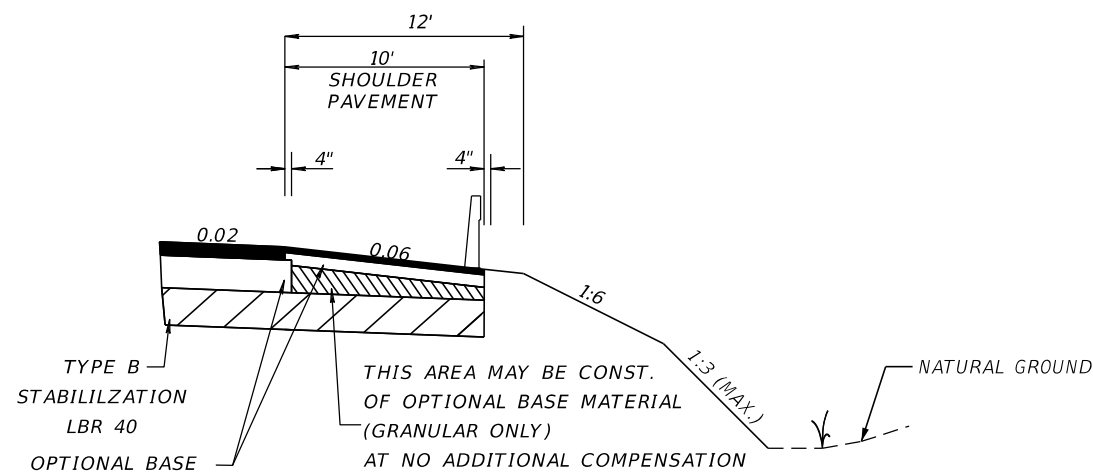
**PARTIAL DETAIL**  
**RETAINING WALL FILL HEIGHTS > 5'**



**PARTIAL TYPICAL**  
**SHOULDER PAVEMENT DETAIL**



**PARTIAL TYPICAL**  
**CURB & GUTTER TYPE F WITH**  
**SIDEWALK AND DRAINAGE SWELL PAVEMENT DETAIL**



**PARTIAL DETAIL**  
**SHOULDER WALL FILL HEIGHTS < 5'**

**NOTES:**

1. 1:6 FOR FILLES TO 5'  
1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'  
1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'

REVISIONS				WILLIAM H. COOK, P.E. P.E. LICENSE NUMBER 54693 STANTEC CONSULTING SERVICES INC. 11315 CORPORATE BLVD., SUITE 105 ORLANDO, FLORIDA 32817	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					9	VOLUSIA	436292-1-52-01	

## Appendix C - Pond Siting Calculations



**PIONEER TRAIL STORMWATER STORMWATER SUMMARY**

PRE				
Pond	Imp. Area	Per. Area	Water Area	Total Area
EX1	2.20	14.30	2.15	18.65
1.1 & 1.8	3.97	18.07	0.00	22.04
1.2 & 1.3	1.50	19.62	0.00	21.12
1.4 & 1.7	3.67	15.89	0.00	19.56
1.5 & 1.6	3.08	10.24	0.00	13.32
Total	14.42	78.12	2.15	94.69

POST						
Pond	Imp. Area	Per. Area	Water Area	Total Area	Req. TV	Prov. TV
EX1	5.94	9.09	3.62	18.65	2.33	2.33
1.1 & 1.8	7.39	10.33	4.32	22.04	2.64	7.27
1.2 & 1.3	5.91	11.45	3.76	21.12	2.64	2.64
1.4 & 1.7	5.71	7.71	6.14	19.56	2.44	5.39
1.5 & 1.6	4.62	5.89	2.81	13.32	1.67	2.06
Total	29.57	44.47	20.65	94.69	11.72	19.69

PRE				
Pond	Imp. Area	Per. Area	Water Area	Total Area
EX2	2.20	14.30	2.15	18.65
2.1 & 2.2	1.54	22.87	0.00	24.41
2.3 & 2.4	1.40	19.69	0.00	21.09
2.5 & 2.8	3.72	18.24	0.00	21.96
2.6 & 2.7	3.08	9.01	0.00	12.09
Total	11.94	84.11	2.15	98.20

POST						
Pond	Imp. Area	Per. Area	Water Area	Total Area	Req. TV	Prov. TV
EX2	5.94	9.09	3.62	18.65	2.33	2.33
2.1 & 2.2	6.66	11.79	5.96	24.41	3.05	3.05
2.3 & 2.4	5.91	11.41	3.76	21.09	2.64	2.64
2.5 & 2.8	6.67	9.15	6.14	21.96	2.75	4.13
2.6 & 2.7	4.93	4.48	2.68	12.09	1.54	1.95
Total	30.11	45.92	22.16	98.20	12.31	14.10

PRE				
Pond	Imp. Area	Per. Area	Water Area	Total Area
EX3	2.20	14.30	2.15	18.65
3.1 & 3.2	1.54	22.76	0.00	24.30
3.3	3.12	17.78	0.00	20.90
3.4 & 3.6	3.08	9.95	0.00	13.03
3.5	1.48	9.57	0.00	11.05
Total	11.42	74.36	2.15	87.93

POST						
Pond	Imp. Area	Per. Area	Water Area	Total Area	Req. TV	Prov. TV
EX3	5.94	9.08	3.62	18.65	2.33	2.33
3.1 & 3.2	6.14	12.31	5.85	24.30	3.04	3.04
3.3	7.42	8.64	4.84	20.90	2.61	3.11
3.4 & 3.6	4.62	5.73	2.68	13.03	1.63	1.95
3.5	3.59	5.36	2.10	11.05	1.38	1.38
Total	27.71	41.12	19.09	87.93	10.99	11.81

## Alternative 1 - Calculations



**PIONEER TRAIL ALTERNATIVE 1  
PRE-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM:**

**Existing Pond**

Existing Pond			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA	PERVIOUS AREA (lawn/sod, fair cond.)	CURVE NUMBER
Pioneer Trail 1, 2, 3	14+00.00	44+00.00	13.31	13.31	2.20	0.00	11.11	0.00	0.00	0.00	0.00	98	100	84	86
Existing Pond			5.34	5.34	0.00	2.15	3.19	0.00	0.00	0.00	0.00	98	100	84	90
<b>SYSTEM TOTALS:</b>			<b>18.65</b>	<b>18.65</b>	<b>2.20</b>	<b>2.15</b>	<b>14.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>87.5</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**PIONEER TRAIL ALTERNATIVE 1  
POST-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM:**

**Existing Pond**

Existing Pond			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Pioneer Trail 1, 2, 3	14+00.00	44+00.00	13.31	13.31	5.94	0.00	7.37	0.00	0.00	0.00	0.00	98	100	84	90
Existing Pond			5.34	5.34	0.00	3.62	1.72	0.00	0.00	0.00	0.00	98	100	84	93
<b>SYSTEM TOTALS:</b>			<b>18.65</b>	<b>18.65</b>	<b>5.94</b>	<b>3.62</b>	<b>9.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>91.6</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



**POLLUTION ABATEMENT VOLUME**

DATE

MADE BY:	DHR	7-Aug-20
CHK BY:		

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **EXISTING POND**

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad x \quad 18.65 \text{ AC.} \quad = \quad \boxed{1.55} \text{ AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad x \quad 5.94 \text{ AC.} \quad = \quad \boxed{1.24} \text{ AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **EXISTING POND**

DATE	
MADE BY:	DHR 7-Aug-20
CHCK BY:	

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN)-10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 87  
S = 1.43  
Q<sub>PRE</sub> = 7.98 IN  
V<sub>PRE</sub> = 12.40 AF

### POST-DEVELOPMENT

CN = 92  
S = 0.92  
Q<sub>POST</sub> = 8.48 IN  
V<sub>POST</sub> = 13.18 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$13.18 - 12.40 = \text{0.78 AF}$$



**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **EXISTING POND**

DATE	
MADE BY:	DHR 18-Aug-20
CHCK BY:	

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.37	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.36	Ft. (NAVD 88), per permit
29.00	Ft. (NAVD 88)

STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	5.34	17.45
Berm (Front)	27.50	4.39	12.58
<b>Design High Water</b>	<b>26.40</b>	<b>4.12</b>	<b>8.08</b>
Control Elevation	24.36	3.62	0.00
Grade Break	22.50	3.18	6.32
Pond Bottom	16.50	2.48	23.96

<-- Per ICPR, 25yr/24hr storm

REQUIRED TREATMENT VOLUME: 2.33 AF

REQUIRED TREATMENT VOLUME ELEVATION: 24.94 Ft.

PROPOSED WEIR ELEVATION: 24.94 Ft.

PROVIDED TREATMENT VOLUME: 2.33 AF

REQUIRED 25Y-24H ATTENUATION VOLUME 0.78 AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **EXISTING POND**

	DATE	
MADE BY:	DHR	7-Aug-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

18.65	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 4.96 AF < 23.96 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{23.96}{3.62} =$  6.62 < 8.00 FT. **O.K.**



PIONEER TRAIL ALTERNATIVE 1  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM:

Pond 1.1

Pond 1.1			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp A	601+34.95	612+64.40	7.02	7.02	0.00	0.00	7.02	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 3	44+00.00	47+00.00	0.49	0.49	0.00	0.00	0.49	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 4	47+00.00	48+38.32	0.22	0.22	0.00	0.00	0.22	0.00	0.00	0.00	0.00	98	100	84	84
Bridge Pioneer Trail	48+38.32	50+07.70	0.25	0.25	0.00	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	84
I-95	4676+71.17	4710+00.00	6.00	6.00	3.97	0.00	2.03	0.00	0.00	0.00	0.00	98	100	84	93
Pond 1.1			3.61	3.61	0.00	0.00	3.61	0.00	0.00	0.00	0.00	98	100	83	83
Pond 1.8			4.45	4.45	0.00	0.00	4.45	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>22.04</b>	<b>22.04</b>	<b>3.97</b>	<b>0.00</b>	<b>18.07</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>86.5</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

PIONEER TRAIL ALTERNATIVE 1  
Post-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM:

Pond 1.1

Pond 1.1			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp A	601+34.95	612+64.40	7.02	7.02	2.68	0.00	4.34	0.00	0.00	0.00	0.00	98	100	84	89
Pioneer Trail 3	44+00.00	47+00.00	0.49	0.49	0.34	0.00	0.15	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 4	47+00.00	48+38.32	0.22	0.22	0.16	0.00	0.06	0.00	0.00	0.00	0.00	98	100	84	94
Bridge Pioneer Trail	48+38.32	50+07.70	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
I-95	4676+71.17	4710+00.00	6.00	6.00	3.97	0.00	2.03	0.00	0.00	0.00	0.00	98	100	84	93
Pond 1.1			3.61	3.61	0.00	2.66	0.94	0.00	0.00	0.00	0.00	97	100	83	96
Pond 1.8			4.45	4.45	0.00	1.72	2.73	0.00	0.00	0.00	0.00	98	100	84	90
<b>SYSTEM TOTALS:</b>			<b>22.04</b>	<b>22.04</b>	<b>7.39</b>	<b>4.38</b>	<b>10.26</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>91.9</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



**POLLUTION ABATEMENT VOLUME**

DATE

MADE BY:	DHR	7-Aug-20
CHK BY:		

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 1.1**

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad x \quad 22.04 \text{ AC.} \quad = \quad \boxed{1.84} \text{ AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad x \quad 7.39 \text{ AC.} \quad = \quad \boxed{1.54} \text{ AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 1.1**

DATE	
MADE BY:	DHR 7-Aug-20
CHCK BY:	

## REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN) - 10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 86.5  
S = 1.56  
Q<sub>PRE</sub> = 7.86 IN  
V<sub>PRE</sub> = 14.43 AF

### POST-DEVELOPMENT

CN = 91.9  
S = 0.88  
Q<sub>POST</sub> = 8.52 IN  
V<sub>POST</sub> = 15.64 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$15.64 - 14.43 = \text{1.21 AF}$$

**POND STAGE / STORAGE**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 1.1**

MADE BY:	DHR	18-Aug-20
CHK BY:		

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.74	Ft. (NAVD 88)
23.73	Ft. (NAVD 88)
23.74	Ft. (NAVD 88)
30.39	Ft. (NAVD 88)

POND 1.1			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	3.61	12.96
Berm (Front)	27.50	2.91	9.70
Design High Water	26.16	2.68	5.96
Control Elevation	23.74	2.25	0.00
Grade Break	22.50	2.04	2.66
Pond Bottom	16.50	1.54	13.72

<-- Per ICPR, 25yr/24hr storm

POND 1.8			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	4.45	17.19
Berm (Front)	27.50	3.79	13.07
Design High Water	26.15	3.564	8.10
Control Elevation	23.74	3.16	0.00
Grade Break	22.50	2.96	3.80
Pond Bottom	16.50	2.49	20.46

<-- Per ICPR, 25yr/24hr :

POND 1.1 + POND 1.8			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	8.05	30.15
Berm (Front)	27.50	6.70	22.77
Weir	24.94	5.82	7.27
Control Elevation	23.74	5.41	0.00
Grade Break	22.50	5.00	6.45
Pond Bottom	16.50	4.03	34.18

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF



**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 1.1**

	DATE	
MADE BY:	DHR	10-Jun-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

22.04	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 5.86 AF < 13.72 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{13.72}{2.25} =$  6.10 < 8.00 FT. **O.K.**

PIONEER TRAIL ALTERNATIVE 1  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 1.2 and 1.3

Pond 1.2 and 1.3			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.25	0.25	0.08	0.00	0.17	0.00	0.00	0.00	0.00	98	100	84	88
Pioneer Trail 4	51+75.66	56+40.00	0.96	0.96	0.00	0.00	0.96	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 5	56+40.00	76+79.94	5.80	5.80	0.34	0.00	5.46	0.00	0.00	0.00	0.00	98	100	84	85
I-95	4676+85.14	4708+74.50	3.32	3.32	0.54	0.00	2.78	0.00	0.00	0.00	0.00	98	100	84	86
Ramp B	206+00.00	225+18.81	3.87	3.87	0.00	0.00	3.87	0.00	0.00	0.00	0.00	98	100	86	86
Pond 1.2			3.47	3.47	0.00	0.00	3.47	0.00	0.00	0.00	0.00	98	100	84	84
Pond 1.3			2.32	2.32	0.00	0.00	2.32	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>21.12</b>	<b>21.12</b>	<b>1.50</b>	<b>0.00</b>	<b>19.62</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>85.0</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

PIONEER TRAIL ALTERNATIVE 1  
Post-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 1.2 and 1.3

Pond 1.2 and 1.3			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pioneer Trail 4	51+75.66	56+40.00	0.96	0.96	0.71	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 5	56+40.00	76+79.94	5.80	5.80	2.09	0.00	3.71	0.00	0.00	0.00	0.00	98	100	84	89
I-95	4676+85.14	4708+74.50	3.32	3.32	0.54	0.00	2.78	0.00	0.00	0.00	0.00	98	100	84	86
Ramp B	206+00.00	225+18.81	3.87	3.87	1.78	0.00	2.09	0.00	0.00	0.00	0.00	98	100	86	92
Pond 1.2			3.47	3.47	0.00	2.30	1.17	0.00	0.00	0.00	0.00	98	100	84	95
Pond 1.3			2.32	2.32	0.00	1.46	0.86	0.00	0.00	0.00	0.00	98	100	84	94
<b>SYSTEM TOTALS:</b>			<b>21.12</b>	<b>21.12</b>	<b>5.91</b>	<b>3.76</b>	<b>11.45</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>90.8</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



**POLLUTION ABATEMENT VOLUME**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 1.2 and 1.3**

MADE BY:	DHR	6-Aug-20
CHCK BY:		

TOTAL ON-SITE TREATMENT AREA:  AC.

IMPERVIOUS COVERAGE:  AC.

PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**

UNDERLINE ONE:                      DRY                                      **WET**

UNDERLINE ONE:                      **ONLINE**                              OFFLINE

1)                      COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 21.12 \text{ AC.} \quad = \quad \text{1.76 AF}$$

2)                      COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 5.91 \text{ AC.} \quad = \quad \text{1.23 AF}$$

CONTROLLING CRITERIA:                     

**REQUIRED TREATMENT VOLUME:**                       AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =                       AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 1.2 and 1.3**

DATE	
MADE BY:	DHR 6-Aug-20
CHCK BY:	

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN)-10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 85.0  
S = 1.77  
Q<sub>PRE</sub> = 7.67 IN  
V<sub>PRE</sub> = 13.50 AF

### POST-DEVELOPMENT

CN = 91  
S = 1.02  
Q<sub>POST</sub> = 8.38 IN  
V<sub>POST</sub> = 14.75 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$14.75 - 13.50 = \text{1.25 AF}$$

**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 1.2 and 1.3**

DATE	
MADE BY:	DHR 18-Aug-20
CHCK BY:	

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.56	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
29.00	Ft. (NAVD 88)

POND 1.2			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	3.47	11.39
Berm (Front)	27.50	2.83	8.24
Design High Water	26.50	2.66	5.49
Control Elevation	24.29	2.30	0.00
Grade Break	22.50	2.02	3.87
Pond Bottom	16.50	1.57	15.08

<-- Per ICPR, 25yr/24hr storm

POND 1.3			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	2.32	7.39
Berm (Front)	27.50	1.84	5.30
Design High Water	26.45	1.719	3.43
Control Elevation	24.29	1.46	0.00
Grade Break	22.50	1.26	2.43
Pond Bottom	16.50	0.93	9.32

<-- Per ICPR, 25yr/24hr storm

POND 1.2 + POND 1.3			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	5.79	18.77
Berm (Front)	27.50	4.67	13.54
Weir	24.92	3.94	2.64
Control Elevation	24.29	3.76	0.00
Grade Break	22.50	3.28	6.30
Pond Bottom	16.50	2.50	24.40

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF



**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 1.2 and 1.3**

	DATE	
MADE BY:	DHR	6-Aug-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

10.00	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 2.66 AF < 15.08 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{15.08}{2.30} =$  6.54 < 8.00 FT. **O.K.**

PIONEER TRAIL ALTERNATIVE 1  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 1.4 and 1.7

Pond 1.4 and 1.7			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.26	0.26	0.08	0.00	0.18	0.00	0.00	0.00	0.00	98	100	84	88
Pioneer Trail 4	51+75.66	56+40.00	0.94	0.94	0.69	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 5	56+40.00	76+79.94	0.29	0.29	0.07	0.00	0.22	0.00	0.00	0.00	0.00	98	100	84	87
I-95	4676+85.14	4708+74.50	3.82	3.82	2.28	0.00	1.54	0.00	0.00	0.00	0.00	98	100	84	92
Ramp C	100+00.00	121+00.00	4.66	4.66	0.01	0.00	4.65	0.00	0.00	0.00	0.00	98	100	86	86
Pond 1.4			3.44	3.44	0.00	0.00	3.44	0.00	0.00	0.00	0.00	98	100	84	84
Pond 1.7			5.01	5.01	0.00	0.00	5.01	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>19.56</b>	<b>19.56</b>	<b>3.67</b>	<b>0.00</b>	<b>15.89</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>86.6</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

PIONEER TRAIL ALTERNATIVE 1  
Post-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 1.4 and 1.7

Pond 1.4 and 1.7			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pioneer Trail 4	51+75.66	56+40.00	0.94	0.94	0.69	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 5	56+40.00	76+79.94	0.29	0.29	0.07	0.00	0.22	0.00	0.00	0.00	0.00	98	100	84	87
I-95	4676+85.14	4708+74.50	3.82	3.82	2.86	0.00	0.96	0.00	0.00	0.00	0.00	98	100	84	94
Ramp C	100+00.00	121+00.00	4.66	4.66	1.29	0.00	3.37	0.00	0.00	0.00	0.00	98	100	86	89
Pond 1.4			3.44	3.44	0.00	2.31	1.13	0.00	0.00	0.00	0.00	98	100	84	95
Pond 1.7			5.01	5.01	0.00	3.83	1.18	0.00	0.00	0.00	0.00	98	100	84	96
<b>SYSTEM TOTALS:</b>			<b>19.56</b>	<b>19.56</b>	<b>5.71</b>	<b>6.14</b>	<b>7.71</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>93.1</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



**POLLUTION ABATEMENT VOLUME**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 1.4 and 1.7**

MADE BY:	DHR	6-Aug-20
CHCK BY:		

TOTAL ON-SITE TREATMENT AREA:  AC.

IMPERVIOUS COVERAGE:  AC.

PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**

UNDERLINE ONE:                      DRY    **WET**

UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1)                      COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 19.56 \text{ AC.} \quad = \quad \text{1.63 AF}$$

2)                      COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 5.71 \text{ AC.} \quad = \quad \text{1.19 AF}$$

CONTROLLING CRITERIA:                     

**REQUIRED TREATMENT VOLUME:**                       AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =                       AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 1.4 and 1.7**

	DATE	
MADE BY:	DHR	6-Aug-20
CHCK BY:		

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
 P = RAINFALL DEPTH (IN) = 9.5 IN (25YR-24HR)  
 S = (1000/CN)-10  
 V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 86.6  
 S = 1.54  
 Q<sub>PRE</sub> = 7.87 IN  
 V<sub>PRE</sub> = 12.83 AF

### POST-DEVELOPMENT

CN = 93  
 S = 0.74  
 Q<sub>POST</sub> = 8.67 IN  
 V<sub>POST</sub> = 14.12 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

14.12 - 12.83 = 1.30 AF

**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 1.4 and 1.7**

DATE  
 MADE BY: DHR 18-Aug-20  
 CHCK BY:

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.71	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
29.19	Ft. (NAVD 88)

POND 1.4			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	3.44	11.35
Berm (Front)	27.50	2.82	8.23
Design High Water	26.45	2.65	5.35
Control Elevation	24.29	2.31	0.00
Grade Break	22.50	2.03	3.89
Pond Bottom	16.50	1.59	15.19

<-- Per ICPR, 25yr/24hr storm

POND 1.7			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	5.01	17.84
Berm (Front)	27.50	4.36	13.15
Design High Water	26.30	4.16	8.04
Control Elevation	24.29	3.83	0.00
Grade Break	22.50	3.55	6.60
Pond Bottom	16.50	3.08	26.93

<-- Per ICPR, 25yr/24hr storm

POND 1.4 + POND 1.7			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	8.46	29.20
Berm (Front)	27.50	7.18	21.38
Weir	25.10	6.40	5.39
Control Elevation	24.29	6.14	0.00
Grade Break	22.50	5.58	10.49
Pond Bottom	16.50	4.67	42.12

REQUIRED TREATMENT VOLUME: 2.44 AF

REQUIRED TREATMENT VOLUME ELEVATION: 24.66 Ft.

PROPOSED WEIR ELEVATION: 25.10 Ft.

PROVIDED TREATMENT VOLUME: 5.39 AF

REQUIRED 25Y-24H ATTENUATION VOLUME 1.30 AF



**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 1.4 and 1.7**

	DATE	
MADE BY:	DHR	6-Aug-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

10.00	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 2.66 AF < 15.19 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{15.19}{2.31} =$  6.58 < 8.00 FT. **O.K.**

**PIONEER TRAIL ALTERNATIVE 1  
PRE-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM: Pond 1.5 and 1.6**

Pond 1.5 and 1.6			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp D	400+00.00	415+00.00	5.38	5.38	0.00	0.00	5.38	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 3	44+00.00	47+28.84	0.48	0.48	0.32	0.00	0.16	0.00	0.00	0.00	0.00	98	100	84	93
Pioneer Trail 4	47+28.84	48+38.32	0.22	0.22	0.13	0.00	0.09	0.00	0.00	0.00	0.00	98	100	84	92
Bridge Pioneer Trail	48+38.32	50+07.70	0.26	0.26	0.14	0.00	0.12	0.00	0.00	0.00	0.00	98	100	84	92
I-95	4711+00.00	4740+00.00	2.55	2.55	2.49	0.00	0.06	0.00	0.00	0.00	0.00	98	100	84	98
Pond 1.5			2.90	2.90	0.00	0.00	2.90	0.00	0.00	0.00	0.00	98	100	84	84
Pond 1.6			1.53	1.53	0.00	0.00	1.53	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>13.32</b>	<b>13.32</b>	<b>3.08</b>	<b>0.00</b>	<b>10.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>87.2</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**PIONEER TRAIL ALTERNATIVE 1**  
**Post-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM: Pond 1.5 and 1.6**

Pond 1.5 and 1.6			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp D	400+00.00	415+00.00	5.38	5.38	1.17	0.00	4.21	0.00	0.00	0.00	0.00	98	100	84	87
Pioneer Trail 3	44+00.00	47+28.84	0.48	0.48	0.43	0.00	0.05	0.00	0.00	0.00	0.00	98	100	84	97
Pioneer Trail 4	47+28.84	48+38.32	0.22	0.22	0.21	0.00	0.01	0.00	0.00	0.00	0.00	98	100	84	97
Bridge Pioneer Trail	48+38.32	50+07.70	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
I-95	4711+00.00	4740+00.00	2.55	2.55	2.55	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pond 1.5			2.90	2.90	0.00	1.83	1.07	0.00	0.00	0.00	0.00	98	100	84	93
Pond 1.6			1.53	1.53	0.00	0.98	0.56	0.00	0.00	0.00	0.00	98	100	84	93
<b>SYSTEM TOTALS:</b>			<b>13.32</b>	<b>13.32</b>	<b>4.62</b>	<b>2.81</b>	<b>5.89</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>92.2</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



**POLLUTION ABATEMENT VOLUME**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 1.5 and 1.6**

MADE BY:	DHR	10-Jun-20
CHCK BY:		

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 13.32 \text{ AC.} \quad = \quad \boxed{1.11} \text{ AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 4.62 \text{ AC.} \quad = \quad \boxed{0.96} \text{ AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 1.5 and 1.6**

DATE	
MADE BY:	DHR 10-Jun-20
CHCK BY:	

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN) - 10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 87.2  
S = 1.46  
Q<sub>PRE</sub> = 7.94 IN  
V<sub>PRE</sub> = 8.82 AF

### POST-DEVELOPMENT

CN = 92.2  
S = 0.84  
Q<sub>POST</sub> = 8.56 IN  
V<sub>POST</sub> = 9.50 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$9.50 - 8.82 = \text{0.68 AF}$$

**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 1.5 and 1.6**

DATE  
 MADE BY: DHR 18-Aug-20  
 CHCK BY:

AVG. ESHWT ELEVATION: 24.16 Ft. (NAVD 88)  
 STAIN LINE: 24.29 Ft. (NAVD 88)  
 CS ELEV: 24.29 Ft. (NAVD 88)  
 ROADWAY LOW POINT: 29.19 Ft. (NAVD 88)

POND 1.5			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	2.90	9.26
Berm (Front)	27.50	2.31	6.66
Design High Water	26.29	2.13	3.97
Control Elevation	24.29	1.83	0.00
Grade Break	22.50	1.58	3.05
Pond Bottom	16.50	1.16	11.67

<-- Per ICPR, 25yr/24hr storm

POND 1.6			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	1.53	4.90
Berm (Front)	27.50	1.22	3.53
Design High Water	26.35	1.13	2.17
Control Elevation	24.29	0.98	0.00
Grade Break	22.50	0.85	1.64
Pond Bottom	16.50	0.66	6.37

<-- Per ICPR, 25yr/24hr storm

POND 1.5 + POND 1.6			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	4.438	14.17
Berm (Front)	27.50	3.534	10.18
Weir	24.94	2.824	2.06
Control Elevation	24.29	2.811	0.00
Grade Break	22.50	2.429	4.69
Pond Bottom	16.50	1.821	18.04

REQUIRED TREATMENT VOLUME: 1.67 AF

REQUIRED TREATMENT VOLUME ELEVATION: 24.82 Ft.

PROPOSED WEIR ELEVATION: 24.94 Ft.

PROVIDED TREATMENT VOLUME: 2.06 AF

REQUIRED 25Y-24H ATTENUATION VOLUME 0.68 AF



**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 1.5 and 1.6**

	DATE	
MADE BY:	DHR	18-Aug-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

$FR = DA C R / WS$

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

10.00	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

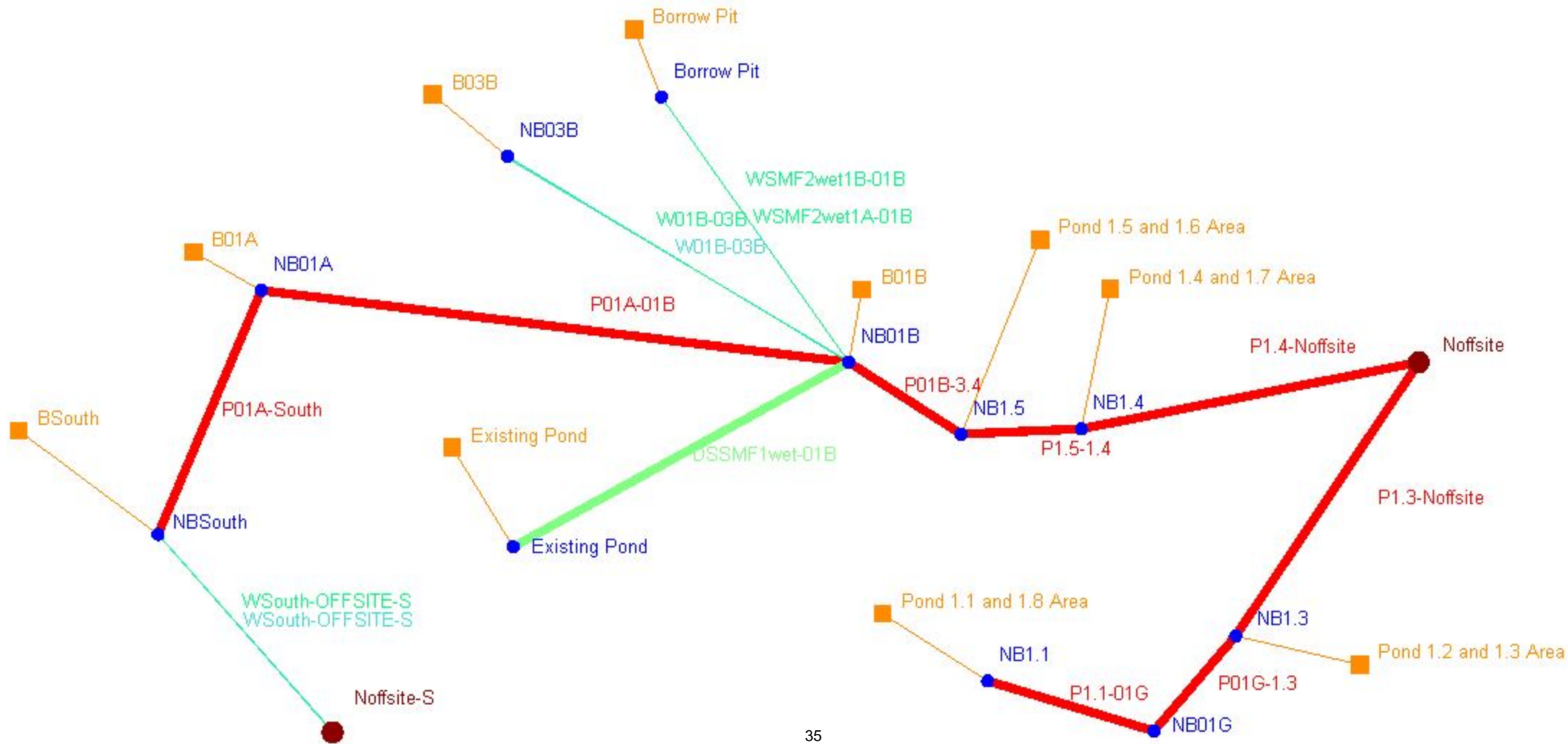
THEREFORE:

$PPV = DA C R RT / WS CF =$  2.66 AF < 18.04 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{18.04}{2.81} =$  6.42 < 8.00 FT. **O.K.**

Alternative 1 - ICPR Pre-Development





## Manual Basin: B01A

Scenario: Scenario1  
 Node: NB01A  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 53.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
56.6000	B01A	B01A			

Comment:

## Manual Basin: B01B

Scenario: Scenario1  
 Node: NB01B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 23.5000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
17.1000	B01B	B01B			

Comment:

## Manual Basin: B03B

Scenario: Scenario1  
 Node: NB03B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 29.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
24.0000	B03B	B03B			

Comment:

Manual Basin: BSouth

Scenario: Scenario1  
 Node: NBSouth  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 59.7000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
40.3000	BSouth	BSouth			

Comment:

Manual Basin: Borrow Pit

Scenario: Scenario1  
 Node: Borrow Pit  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 21.0800 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
27.6000	Borrow Pit	Borrow Pit			

Comment:

Manual Basin: Existing Pond

Scenario: Scenario1  
 Node: Existing Pond  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 12.6600 min  
 Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
21.0500	Existing Pond	Existing Pond			

Comment:

#### Manual Basin: Pond 1.1 and 1.8 Area

Scenario: Scenario1  
 Node: NB1.1  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
22.0400	Pond 1.1 and 1.8	Pond 1.1 and 1.8			

Comment:

#### Manual Basin: Pond 1.2 and 1.3 Area

Scenario: Scenario1  
 Node: NB1.3  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
24.0300	Pond 1.2 and 1.3	Pond 1.2 and 1.3			

Comment:

#### Manual Basin: Pond 1.4 and 1.7 Area



Scenario: Scenario1  
Node: NB1.4  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
17.1500	Pond 1.4 and 1.7	Pond 1.4 and 1.7			

Comment:

#### Manual Basin: Pond 1.5 and 1.6 Area

Scenario: Scenario1  
Node: NB1.5  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
13.3200	Pond 1.5 and 1.6	Pond 1.5 and 1.6			

Comment:

#### Curve Number: CN [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
B01A	B01A	89.0
B01B	B01B	87.0
B01G	B01G	84.0
B03B	B03B	83.0
BSouth	BSouth	82.0
Borrow Pit	Borrow Pit	93.0
Existing Pond	Existing Pond	87.1
Pond 1.1 and 1.8	Pond 1.1 and 1.8	86.5
Pond 1.2 and 1.3	Pond 1.2 and 1.3	84.9
Pond 1.4 and 1.7	Pond 1.4 and 1.7	87.0
Pond 1.5 and 1.6	Pond 1.5 and 1.6	87.2

## Node: Borrow Pit

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.86 ft  
 Warning Stage: 27.86 ft

Stage [ft]	Area [ac]	Area [ft2]
1.86	5.5100	240016
24.86	8.2400	358934
27.86	8.9500	389862

Comment:

## Node: Existing Pond

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.35 ft  
 Warning Stage: 27.86 ft

Stage [ft]	Area [ac]	Area [ft2]
18.60	0.8600	37462
24.36	2.1500	93654
27.36	2.8800	125453

Comment:

## Node: NB01A

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 32.06 ft

Stage [ft]	Area [ac]	Area [ft2]
22.33	0.0010	44
23.33	0.1000	4356
24.33	15.5000	675180
25.33	31.9000	1389564
26.33	42.8000	1864368
27.33	52.1000	2269476
28.33	58.3000	2539548
29.33	60.8000	2648448
30.33	60.9000	2652804

Stage [ft]	Area [ac]	Area [ft2]
31.33	61.0000	2657160
32.06	61.0000	2657160

Comment:

Node: NB01B

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.21 ft  
Warning Stage: 51.46 ft

Stage [ft]	Area [ac]	Area [ft2]
22.21	0.0010	44
22.61	0.0010	44
23.61	0.7000	30492
24.61	17.7000	771012
25.61	27.2000	1184832
27.61	37.8000	1646568
28.61	39.1000	1703196
29.61	40.1000	1746756
30.61	40.7000	1772892
31.61	40.8000	1777248
32.61	40.8000	1777248
33.61	40.8000	1777248
34.61	40.9000	1781604
35.61	40.9000	1781604
36.61	40.9000	1781604
37.61	41.0000	1785960
38.61	41.0000	1785960
39.61	41.0000	1785960
40.61	41.1000	1790316
41.61	41.1000	1790316
42.61	41.1000	1790316
43.61	41.2000	1794672
44.61	41.2000	1794672
45.61	41.2000	1794672
46.61	41.3000	1799028
47.61	41.3000	1799028
48.61	41.3000	1799028
49.61	41.4000	1803384
50.61	41.4000	1803384
51.51	41.4000	1803384
26.61	34.2000	1489752

Comment:



Node: NB01G

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.66 ft  
 Warning Stage: 29.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.66	0.0000	0
23.50	0.0000	0
24.00	0.0110	479
24.50	0.2020	8799
25.00	0.5920	25788
25.50	2.4520	106809
26.00	3.4590	150674
26.50	3.7560	163611
27.00	3.9920	173892
27.50	4.3170	188049
28.00	4.5720	199156
28.50	4.8340	210569
29.00	5.0980	222069
29.50	5.3660	233743
30.00	5.6360	245504

Comment:

Node: NB03B

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.06 ft  
 Warning Stage: 32.01 ft

Stage [ft]	Area [ac]	Area [ft2]
23.19	0.0010	44
24.19	0.3000	13068
25.19	6.5000	283140
26.19	11.5000	500940
27.19	13.5000	588060
28.19	14.1000	614196
29.19	14.4000	627264
30.19	14.6000	635976
31.19	14.6000	635976
32.01	14.6000	635976

Comment:

Node: NB1.1

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.75 ft  
 Warning Stage: 25.15 ft

Stage [ft]	Area [ac]	Area [ft2]
20.75	0.0000	0
25.15	0.0000	0

Comment:

Node: NB1.3

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.13 ft  
 Warning Stage: 25.86 ft

Stage [ft]	Area [ac]	Area [ft2]
20.13	0.0000	0
25.86	0.0000	0

Comment:

Node: NB1.4

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.00 ft  
 Warning Stage: 24.94 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
24.94	0.0000	0

Comment:

Node: NB1.5

Scenario: Scenario1  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 22.09 ft  
 Warning Stage: 25.09 ft

Stage [ft]	Area [ac]	Area [ft2]
22.09	0.0000	0
25.09	0.0000	0

Comment:

Node: NBSouth

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 33.67 ft

Stage [ft]	Area [ac]	Area [ft2]
22.39	0.0010	44
22.89	0.0143	623
23.39	0.0964	4199
23.89	1.2391	53975
24.39	12.3783	539199
24.89	22.2377	968674
25.39	27.0965	1180324
25.89	31.2305	1360401
26.39	33.3190	1451376
26.89	34.2642	1492549
27.39	34.5225	1503800
27.89	34.6654	1510025
28.39	34.7297	1512826
28.89	34.7584	1514076
29.39	34.7687	1514525
29.89	34.7740	1514755
33.67	34.7740	1514755

Comment:

Node: Noffsite

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.00 ft  
 Warning Stage: 15.00 ft  
 Boundary Stage:



Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	15.00
0	0	0	50.0000	15.00

Comment:

**Node: Noffsite-S**

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.50 ft  
 Warning Stage: 24.50 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	24.50
0	0	0	50.0000	24.50

Comment:

Drop Structure Link: DSSMF1wet-01B		Upstream Pipe	Downstream Pipe
Scenario:	Scenario1	Invert: 22.50 ft	Invert: 22.30 ft
From Node:	Existing Pond	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB01B	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	50.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft		
Energy Switch:	Energy		

Pipe Comment: 19"x30" HORIZONTAL ELLIPSE

Weir Component		Bottom Clip
Weir:	1	Default: 0.00 ft
Weir Count:	1	Op Table:
Weir Flow Direction:	Both	Ref Node:
Damping:	0.0000 ft	

Weir Type: Sharp Crested Vertical  
 Geometry Type: Rectangular  
 Invert: 24.35 ft  
 Control Elevation: 24.35 ft  
 Max Depth: 0.41 ft  
 Max Width: 0.22 ft  
 Fillet: 0.00 ft

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component  
 Weir: 2  
 Weir Count: 2  
 Weir Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Horizontal  
 Geometry Type: Rectangular  
 Invert: 24.76 ft  
 Control Elevation: 24.76 ft  
 Max Depth: 2.60 ft  
 Max Width: 10.00 ft  
 Fillet: 0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Pipe Link: P01A-01B	Upstream	Downstream
Scenario: Scenario1	Invert: 24.36 ft	Invert: 24.16 ft
From Node: NB01A	Manning's N: 0.0130	Manning's N: 0.0130
To Node: NB01B	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 5	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 130.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01A-South		Upstream	Downstream
Scenario:	Scenario1	Invert: 23.08 ft	Invert: 22.77 ft
From Node:	NBSouth	Manning's N: 0.0130	Manning's N: 0.1300
To Node:	NB01A	Geometry: Rectangular	Geometry: Rectangular
Link Count:	1	Max Depth: 2.25 ft	Max Depth: 2.25 ft
Flow Direction:	Both	Max Width: 8.75 ft	Max Width: 8.75 ft
Damping:	0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length:	67.00 ft	Bottom Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.20	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft	Top Clip	
Energy Switch:	Energy	Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01B-3.4		Upstream	Downstream
Scenario:	Scenario1	Invert: 22.20 ft	Invert: 22.10 ft
From Node:	NB01B	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB1.5	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	105.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01G-1.3		Upstream	Downstream
Scenario:	Scenario1	Invert: 20.66 ft	Invert: 20.13 ft
From Node:	NB01G	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB1.3	Geometry: Rectangular	Geometry: Rectangular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping:	0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length:	180.00 ft	Bottom Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft



Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P1.1-01G	Upstream	Downstream
Scenario: Scenario1	Invert: 20.75 ft	Invert: 20.66 ft
From Node: NB1.1	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NB01G	Geometry: Rectangular	Geometry: Rectangular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping: 0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 180.00 ft	Bottom Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P1.3-Noffsite	Upstream	Downstream
Scenario: Scenario1	Invert: 20.98 ft	Invert: 20.88 ft
From Node: NB1.3	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Noffsite	Geometry: Rectangular	Geometry: Rectangular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping: 0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 88.00 ft	Bottom Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:

Manning's N: 0.0000

Manning's N: 0.0000

Comment:
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Pipe Link: P1.4-Noffsite		Upstream	Downstream
Scenario:	Scenario1	Invert: 21.94 ft	Invert: 20.84 ft
From Node:	NB1.4	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Noffsite	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	540.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:
----------

Pipe Link: P1.5-1.4		Upstream	Downstream
Scenario:	Scenario1	Invert: 22.09 ft	Invert: 21.94 ft
From Node:	NB1.5	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB1.4	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	275.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:
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Weir Link: W01B-03B		Bottom Clip
Scenario:	Scenario1	Default: 0.00 ft
From Node:	NB01B	Op Table:
To Node:	NB03B	Ref Node:
Link Count:	1	

Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Sharp Crested Vertical  
 Geometry Type: Irregular  
 Invert: 24.46 ft  
 Control Elevation: 24.46 ft  
 Cross Section: W01B-03B

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: WSMF2wet1A-01B

Scenario: Scenario1  
 From Node: Borrow Pit  
 To Node: NB01B  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Sharp Crested Vertical  
 Geometry Type: Rectangular  
 Invert: 24.86 ft  
 Control Elevation: 24.86 ft  
 Max Depth: 0.60 ft  
 Max Width: 0.60 ft  
 Fillet: 0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: WSMF2wet1B-01B

Scenario: Scenario1  
 From Node: Borrow Pit  
 To Node: NB01B  
 Link Count: 1  
 Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Sharp Crested Vertical  
 Geometry Type: Rectangular  
 Invert: 25.37 ft  
 Control Elevation: 25.37 ft  
 Max Depth: 900.00 ft  
 Max Width: 11.00 ft  
 Fillet: 0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:



<b>Weir Link: WSouth-OFFSITE-S</b>	
Scenario: Scenario1	<b>Bottom Clip</b>
From Node: NBSouth	Default: 0.00 ft
To Node: Noffsite-S	Op Table:
Link Count: 1	Ref Node:
Flow Direction: Both	<b>Top Clip</b>
Damping: 0.0000 ft	Default: 0.00 ft
Weir Type: Sharp Crested Vertical	Op Table:
Geometry Type: Irregular	Ref Node:
Invert: 24.62 ft	<b>Discharge Coefficients</b>
Control Elevation: 24.62 ft	Weir Default: 2.800
Cross Section: WSouth-OFFSITE-S	Weir Table:
	Orifice Default: 0.600
	Orifice Table:
Comment:	

<b>Weir Cross Section: W01B-03B</b>	
Scenario: Scenario1	
Lid: No	

**Bottom Point Table**

Order	Station [ft]	Elevation [ft]
0	0.00	25.97
1	4.83	25.55
2	9.65	25.20
3	14.48	25.23
4	19.31	25.56
5	24.13	25.80
6	28.96	25.78
7	33.79	25.74
8	38.61	25.71
9	43.44	25.68
10	48.27	25.66
11	53.09	25.78
12	57.92	25.93
13	62.75	26.03
14	67.57	26.02
15	72.40	25.98
16	77.23	26.00
17	82.05	26.03
18	86.88	25.97
19	91.71	25.88
20	96.53	26.07
21	101.36	25.98
22	106.18	25.67
23	111.01	25.54
24	115.84	25.57

Order	Station [ft]	Elevation [ft]
25	120.66	25.30
26	125.49	25.18
27	130.11	25.17
28	134.73	25.11
29	139.35	25.03
30	143.97	24.99
31	148.59	25.07
32	153.21	25.13
33	157.83	25.19
34	162.45	25.25
35	167.07	25.29
36	171.69	25.48
37	176.31	26.15
38	180.93	27.31
39	185.55	27.77
40	190.51	28.96
41	195.46	29.22
42	200.41	29.38
43	205.37	29.47
44	210.32	29.65
45	215.28	29.91
46	220.23	30.16
47	225.19	29.76
48	230.14	28.89
49	235.10	27.90
50	240.05	27.15
51	245.01	26.45
52	249.96	25.90
53	254.92	25.57
54	259.87	25.79
56	264.83	25.74
57	269.78	25.61
58	274.74	25.51
59	279.69	25.40
60	284.64	25.27
61	289.60	25.15
62	294.55	25.08
63	299.51	25.10
64	304.46	25.07
65	309.42	25.00
66	314.37	24.87
67	319.33	24.63
68	324.28	24.46
69	329.24	24.51
70	334.19	24.82
71	339.15	25.04
72	344.10	25.45
73	348.95	25.45
74	353.79	25.13

Order	Station [ft]	Elevation [ft]
75	358.64	25.10
76	363.48	25.05
77	368.33	24.76
78	373.17	24.78
79	378.02	24.68
80	382.86	24.87
81	387.71	25.00
82	392.55	25.17
83	397.40	25.35
84	402.24	25.55
85	407.09	25.72
86	411.93	25.81
87	416.78	25.88
88	421.63	25.97
89	426.47	26.44
90	431.32	27.14
91	436.16	27.40
92	441.01	27.45
93	445.85	27.44
94	450.70	27.33
95	455.51	27.32
96	460.33	27.44
97	465.14	27.20
98	469.95	26.40
99	474.77	26.25
100	479.58	25.85
101	484.40	25.59
102	489.21	25.53
103	494.02	25.31
104	498.84	25.33
105	503.65	25.58
106	508.47	25.80
107	513.28	26.02
108	518.10	26.09
109	522.91	25.97
110	527.72	25.77
111	532.54	25.67
112	537.35	25.80
113	542.17	25.84
114	546.98	25.68
115	551.80	25.56
116	556.61	25.64
117	561.42	25.66
118	566.27	25.54
119	571.11	25.43
120	575.95	25.80
121	580.80	26.24
122	585.64	26.37
123	590.48	26.42



Order	Station [ft]	Elevation [ft]
124	595.33	26.52
125	600.17	26.20
126	605.01	25.88
127	609.86	25.58
128	614.70	25.29
129	619.54	25.11
130	624.39	25.03
131	629.23	25.00
132	634.07	24.99
133	638.92	24.97
134	643.80	24.94
135	648.68	24.91
136	653.56	24.86
137	658.44	24.82
138	663.32	24.79
139	668.20	24.77
140	673.09	24.81
141	677.97	25.02
142	682.85	25.26
143	687.73	25.37
144	692.61	25.46
145	697.49	25.55
146	702.37	25.62
147	707.25	25.68
148	712.14	25.66
149	717.02	25.58
150	721.90	25.50
151	726.78	25.49
152	731.66	25.57
153	736.54	25.68
154	741.42	25.72
155	746.30	25.71
156	751.18	25.70
157	756.04	25.68
158	760.89	25.66
159	765.74	25.66
160	770.59	25.95
161	775.44	26.29
162	780.29	26.41
163	785.14	26.41
164	789.99	26.40
165	794.84	26.40
166	799.69	26.32
167	804.54	26.32
168	809.39	26.48
169	814.25	26.72
170	819.10	26.66
171	823.95	26.39
172	828.80	26.08

Order	Station [ft]	Elevation [ft]
173	833.65	26.73
174	838.50	25.50
175	843.50	25.40
176	848.20	25.36
177	853.05	25.37
178	857.90	25.38
179	862.75	25.42
180	867.60	25.39
181	872.46	25.26
182	877.31	25.12
183	882.16	25.08
184	887.01	25.14
185	891.86	25.19
186	896.74	25.20
187	901.56	25.15
188	906.32	25.17
189	911.09	25.08
190	915.85	24.94
191	920.62	24.80
192	925.38	24.63
193	930.14	24.96
194	934.91	25.16
195	939.67	25.18
196	944.43	25.25
197	949.20	25.35
198	953.96	25.45
199	958.73	25.31
200	963.49	25.88
201	968.25	27.02
202	973.02	28.09
203	977.78	28.47
204	982.55	28.17
205	987.31	27.41
206	992.07	26.58
207	996.99	25.99
208	1001.91	25.61
209	1006.83	25.50
210	1011.74	25.56
211	1016.66	25.46
212	1021.58	25.41
213	1026.50	25.39
214	1031.41	25.49
215	1036.33	25.52
216	1041.25	25.50
217	1046.17	25.44
218	1051.08	25.45
219	1056.00	25.74
220	1060.92	26.00
221	1065.84	26.18

Order	Station [ft]	Elevation [ft]
222	1070.75	26.35
223	1075.67	26.39
224	1080.59	26.23
225	1085.51	26.02
226	1090.42	25.97
227	1095.34	25.79
228	1100.26	25.65
229	1105.18	25.82
230	1110.10	26.39
231	1115.01	27.03
232	1119.93	27.44
233	1124.85	27.65
234	1129.83	27.59
235	1134.82	27.45
236	1139.80	27.03
237	1144.79	26.51
238	1149.77	26.17
239	1154.76	26.14
240	1159.74	26.15
241	1164.73	26.20
242	1169.72	26.28
243	1174.70	26.22
244	1179.69	26.08
245	1184.67	26.00
246	1189.66	26.13
247	1194.64	26.26
248	1199.63	26.14
249	1204.61	25.96
250	1209.60	25.77
251	1214.58	25.61
252	1219.57	25.40
253	1224.55	25.47
254	1229.54	25.52
255	1234.52	25.59
256	1239.51	25.70
257	1244.49	25.90
258	1249.48	26.08
259	1254.47	26.10
260	1259.45	26.04
261	1264.42	26.10
262	1269.39	26.50
263	1274.36	26.93
264	1279.33	27.12
265	1284.30	27.25
266	1289.27	27.23
267	1294.24	27.14
268	1299.21	26.93
269	1304.18	26.73
270	1309.15	26.74

Order	Station [ft]	Elevation [ft]
271	1314.13	26.20
272	1319.10	26.05
273	1324.07	26.27
274	1329.04	26.35
275	1334.01	26.09
276	1338.98	25.80
277	1343.95	25.74
278	1348.92	25.63
279	1353.89	25.45
280	1358.86	25.04
281	1363.83	24.87
282	1368.80	25.06
283	1373.77	25.06
284	1378.74	25.33
285	1383.71	25.09
286	1388.68	24.96
287	1393.65	25.19
288	1398.62	25.92
289	1403.52	26.09
290	1408.41	26.26
291	1413.30	26.27
292	1418.19	26.12
293	1423.08	26.13
294	1427.98	26.08
295	1432.87	25.97
296	1437.76	25.98
297	1442.65	26.24
298	1447.55	26.54
299	1452.44	26.41
300	1457.33	25.84
301	1462.23	25.32
302	1467.12	25.55
303	1472.01	26.46
304	1476.90	27.00
305	1481.79	27.21
306	1486.69	27.09
307	1491.58	26.91
308	1496.47	26.73
309	1501.37	26.57
310	1506.26	26.39
311	1511.15	26.27
312	1516.04	26.17
313	1520.94	26.19
314	1525.83	26.24
315	1530.78	26.09
316	1535.73	25.92
317	1540.69	25.87
318	1545.64	25.89
319	1550.59	26.39



Order	Station [ft]	Elevation [ft]
320	1555.55	26.87
321	1560.50	27.08
322	1565.45	27.35
323	1570.41	27.55
324	1575.36	27.68
325	1580.31	27.79
326	1585.27	28.11
327	1590.22	28.28
328	1595.17	28.20
329	1600.13	28.68
330	1605.08	28.85
331	1610.03	28.63
332	1614.99	28.62
333	1619.94	28.72
334	1624.89	28.45
335	1629.47	28.71
336	1634.05	28.73
337	1638.62	28.60
338	1643.20	28.13
339	1647.78	28.15
340	1652.35	28.36
341	1656.93	28.49
342	1661.51	28.36
343	1666.08	28.23
344	1670.66	28.10
345	1675.23	27.87
346	1679.78	27.73
347	1684.32	27.70
348	1688.86	27.70
349	1693.40	27.67
350	1697.94	27.95
351	1702.48	27.90
352	1707.02	28.03
353	1711.56	28.31
354	1716.11	28.28
355	1720.75	28.39
356	1725.40	28.49
357	1730.05	28.49
358	1734.69	28.54
359	1739.34	28.65
360	1743.99	28.51
361	1748.63	28.14
362	1753.28	28.04
363	1757.93	27.95
364	1762.89	28.04
365	1767.85	28.05
366	1772.81	28.20
367	1777.77	28.34
368	1782.74	28.70

Order	Station [ft]	Elevation [ft]
369	1787.70	28.93
370	1792.66	28.91
371	1797.62	28.70
372	1802.30	28.37
373	1806.98	28.20
374	1811.66	28.22
375	1816.33	28.21
376	1821.01	28.22
377	1825.69	28.23
378	1830.37	28.11
379	1835.03	28.17
380	1839.70	28.49
381	1844.36	29.06
382	1849.02	29.07
383	1853.75	28.90
384	1858.49	28.63
385	1863.22	28.63
386	1867.95	28.58
387	1872.68	28.35
388	1877.42	27.96
389	1882.15	27.72
390	1886.88	27.43
391	1891.61	27.24
392	1896.35	27.21
393	1901.08	27.20
394	1905.81	27.17
395	1910.48	27.22
396	1915.16	27.31
397	1919.83	27.36
398	1924.50	27.49
399	1929.18	27.68
400	1934.02	27.78
401	1938.86	27.82
402	1943.70	27.52
403	1948.55	27.28
404	1953.39	27.14
405	1958.23	27.40
406	1963.08	27.82
407	1967.92	28.02
408	1972.43	27.73
409	1976.95	27.15
410	1981.46	27.17
411	1985.97	27.16
412	1990.49	27.11
413	1995.00	27.06
414	1999.52	27.05
415	2004.27	27.05
416	2009.02	27.08
417	2013.77	27.16

Order	Station [ft]	Elevation [ft]
418	2018.52	27.20
419	2023.27	27.16
420	2028.02	27.32
421	2032.77	27.80
422	2037.52	28.16
423	2042.27	28.33
424	2047.02	28.22
425	2051.77	28.17
426	2056.52	28.13
427	2061.45	28.02
428	2066.39	27.96
429	2071.33	27.82
430	2076.27	27.78
431	2081.20	27.73
432	2086.14	27.44
433	2091.08	27.36
434	2095.71	27.29
435	2100.34	27.23
436	2104.94	27.17
437	2109.60	27.11
438	2114.23	27.00
439	2118.86	27.19
440	2123.49	27.50
441	2128.31	27.26
442	2133.14	27.17
443	2137.96	27.40
444	2142.78	27.60
445	2147.61	27.66
446	2152.43	27.46
447	2157.26	27.30
448	2162.08	27.14
449	2166.90	27.18
450	2171.73	27.26
451	2176.55	27.40
452	2181.38	27.86
453	2186.20	28.17
454	2191.02	28.29
455	2195.85	28.35
456	2200.67	28.72

Comment:

Weir Cross Section: WSouth-OFFSITE-S

Scenario: Scenario1

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	19.25	25.47
1	24.07	25.04
2	28.88	24.99
3	33.69	25.29
4	38.51	25.43
5	43.32	25.45
6	48.06	25.45
7	52.79	25.56
8	57.53	25.61
9	61.87	25.55
10	66.22	25.47
11	70.56	25.50
12	75.12	25.57
13	473.70	25.36
14	478.51	25.30
15	483.32	25.42
16	528.44	25.52
17	533.26	25.44
18	538.08	25.35
19	542.93	25.39
20	547.79	25.45
21	552.65	25.45
22	557.51	25.50
23	562.36	25.25
24	566.43	25.10
25	570.49	24.95
26	574.56	24.97
27	578.62	24.98
28	582.69	25.01
29	587.13	25.02
30	591.57	25.12
31	596.02	25.29
32	600.46	25.45
33	604.90	25.61
34	614.21	25.56
35	619.07	25.43
36	623.93	25.30
37	628.79	25.17
38	633.65	25.05
39	638.51	25.06
40	643.36	25.23
41	648.22	25.17
42	653.08	25.06
43	657.94	25.48
44	766.40	25.61
45	771.20	25.31
46	776.00	25.30
47	780.80	25.48



Order	Station [ft]	Elevation [ft]
48	785.60	25.55
49	789.90	25.47
50	794.19	25.35
51	798.49	25.24
52	802.93	25.17
53	807.36	25.07
54	811.80	25.04
55	816.23	25.10
56	820.67	25.24
57	825.11	25.41
58	903.28	25.61
59	907.96	25.41
60	912.64	25.26
61	917.32	25.09
62	922.00	24.93
63	926.68	24.90
64	930.16	24.90
65	933.63	24.92
66	937.11	24.93
67	941.60	25.01
68	946.09	25.11
69	950.58	25.26
70	955.07	25.42
71	959.56	25.49
72	964.22	25.43
73	968.88	25.32
74	973.54	25.35
75	977.14	25.41
76	980.74	25.35
77	984.33	25.24
78	988.82	25.23
79	993.31	25.20
80	997.80	25.20
81	1002.29	25.18
82	1006.78	25.15
83	1011.64	25.12
84	1016.49	25.30
85	1021.35	25.56
86	1026.20	25.60
87	1031.06	25.50
88	1035.91	25.37
89	1040.77	25.39
90	1045.65	25.31
91	1050.54	25.24
92	1055.43	25.27
93	1060.32	25.33
94	1065.20	25.42
95	1070.09	25.34
96	1074.98	25.38

Order	Station [ft]	Elevation [ft]
97	1079.43	25.36
98	1083.89	25.31
99	1088.34	25.27
100	1092.80	25.29
101	1097.22	25.39
102	1101.65	25.45
103	1106.07	25.48
104	1110.49	25.50
105	1114.92	25.44
106	1119.34	25.36
107	1123.76	25.28
108	1128.23	25.19
109	1132.70	25.08
110	1137.16	24.99
111	1141.63	24.91
112	1146.10	25.02
113	1150.57	25.19
114	1154.87	25.34
115	1159.17	25.51
116	1163.47	25.61
117	1172.23	25.47
118	1176.70	25.20
119	1181.17	24.97
120	1185.63	24.86
121	1190.31	24.80
122	1195.00	24.85
123	1198.49	24.89
124	1201.99	25.05
125	1205.48	25.23
126	1209.63	25.26
127	1213.78	25.28
128	1217.93	25.06
129	1222.89	24.94
130	1227.85	24.85
131	1231.72	24.82
132	1235.59	24.83
133	1239.46	24.85
134	1243.26	24.89
135	1247.05	24.92
136	1250.85	25.09
137	1254.64	25.38
138	1271.59	25.55
139	1275.71	25.54
140	1279.83	25.60
141	1736.72	25.61
142	1741.15	25.54
143	1745.58	25.51
144	1750.00	25.52
145	1754.66	25.56

Order	Station [ft]	Elevation [ft]
146	1788.17	25.60
147	1793.13	25.54
148	1798.04	25.52
149	1802.96	25.54
150	1807.87	25.57
151	1859.55	25.50
152	1863.74	25.41
153	1867.94	25.35
154	1872.14	25.33
155	1876.34	25.32
156	1880.54	25.31
157	1884.73	25.32
158	1889.68	25.32
159	1894.62	25.33
160	1899.57	25.42
161	1903.56	25.49
162	1907.55	25.47
163	1911.54	25.61
164	1947.55	25.41
165	1951.76	25.29
166	1955.96	25.26
167	1960.17	25.24
168	2009.94	25.53
169	2014.75	25.41
170	2019.57	25.39
171	2024.38	25.28
172	2029.20	25.12
173	2034.02	25.00
174	2038.83	24.93
175	2043.65	24.86
176	2048.32	24.83
177	2052.99	24.78
178	2057.66	24.79
179	2062.33	24.79
180	2067.00	24.85
181	2071.67	24.95
182	2076.34	25.02
183	2081.01	24.98
184	2085.44	24.95
185	2089.87	24.86
186	2094.29	24.77
187	2098.72	24.69
188	2103.21	24.68
189	2107.70	24.68
190	2112.19	24.68
191	2116.69	24.69
192	2121.18	24.72
193	2125.67	24.78
194	2130.16	24.99

Order	Station [ft]	Elevation [ft]
195	2134.65	25.32
196	2139.15	25.45
197	2143.57	25.17
198	2148.00	24.95
199	2152.42	24.93
200	2156.85	24.85
201	2161.58	24.79
202	2166.31	24.75
203	2171.04	24.74
204	2175.77	24.83
205	2180.50	25.04
206	2185.23	25.23
207	2189.84	25.22
208	2194.44	24.80
209	2199.05	24.70
210	2203.65	24.75
211	2208.26	24.71
212	2212.86	24.75
213	2217.47	24.84
214	2222.07	24.94
215	2226.86	25.00
216	2231.65	25.06
217	2236.44	25.13
218	2241.23	25.51
219	2317.92	25.58
220	2322.73	25.52
221	2327.53	25.46
222	2332.34	25.41
223	2337.15	25.36
224	2341.95	25.31
225	2346.76	25.28
226	2351.56	25.28
227	2356.37	25.30
228	2361.17	25.34
229	2365.98	25.37
230	2370.78	25.42
231	2375.59	25.47
232	2400.56	25.61
233	2405.56	25.36
234	2410.48	25.32
235	2415.40	25.35
236	2420.33	25.35
237	2425.25	25.35
238	2430.17	25.35
239	2435.10	25.36
240	2440.02	25.37
241	2444.21	25.38
242	2448.39	25.39
243	2452.58	25.41



Order	Station [ft]	Elevation [ft]
244	2456.77	25.41
245	2460.96	25.42
246	2465.27	25.39
247	2469.59	25.35
248	2473.90	25.32
249	2478.22	25.30
250	2482.53	25.29
251	2486.84	25.29
252	2491.16	25.28
253	2496.09	25.26
254	2501.01	25.25
255	2505.94	25.27
256	2510.87	25.30
257	2515.80	25.31
258	2520.72	25.28
259	2525.69	25.24
260	2530.65	25.18
261	2535.62	25.10
262	2540.58	25.01
263	2545.55	24.92
264	2550.51	24.85
265	2555.48	24.80
266	2560.44	24.75
267	2565.40	24.71
268	2570.37	24.67
269	2575.33	24.64
270	2580.30	24.62
271	2585.03	24.63
272	2589.76	24.66
273	2594.50	24.74
274	2599.23	24.82
275	2603.96	25.19
276	2608.69	25.37
277	2613.43	25.21
278	2618.16	25.06
279	2622.65	25.07
280	2627.13	25.10
281	2631.62	25.21
282	2636.11	25.43
283	2666.87	25.51
284	2671.20	25.47
285	2675.52	25.49
286	2679.57	25.51
287	2683.63	25.56
288	2736.54	25.52
289	2741.22	25.46
290	2745.89	25.41
291	2750.57	25.38
292	2755.25	25.35

Order	Station [ft]	Elevation [ft]
293	2759.92	25.33
294	2764.60	25.29
295	2769.27	25.26
296	2773.87	25.22
297	2778.46	25.18
298	2783.06	25.14
299	2787.65	25.12
300	2792.25	25.10
301	2796.84	25.08
302	2801.44	25.06
303	2806.03	25.04
304	2810.63	25.03
305	2815.22	25.02
306	2819.82	25.02
307	2824.41	25.03
308	2828.95	25.04
309	2833.48	25.07
310	2838.01	25.11
311	2842.54	25.18
312	2847.29	25.24
313	2852.04	25.47
314	2879.45	25.42
315	2883.83	25.19
316	2888.22	25.06
317	2892.60	24.95
318	2896.99	24.87
319	2901.37	24.80
320	2906.00	24.77
321	2910.63	24.76
322	2915.26	24.77
323	2919.89	24.78
324	2924.09	24.82
325	2928.28	24.95
326	2932.48	25.13
327	2936.67	25.21
328	2940.59	25.12
329	2944.52	24.99
330	2948.44	24.84
331	2952.36	24.75
332	2957.04	24.76
333	2961.73	24.77
334	2966.42	24.83
335	2971.10	24.90
336	2975.79	25.00
337	2979.75	25.25
338	2983.71	25.39
339	2987.68	25.39
340	2991.64	25.28
341	2996.52	25.15

Order	Station [ft]	Elevation [ft]
342	3001.40	25.03
343	3006.29	24.92
344	3011.17	24.83
345	3016.05	24.78
346	3020.94	24.80
347	3025.82	24.79
348	3030.70	24.80
349	3035.59	24.80
350	3040.40	24.80
351	3045.22	24.79
352	3050.04	24.78
353	3054.84	24.78
354	3059.67	24.78
355	3064.49	24.78
356	3069.31	24.79
357	3074.12	24.80
358	3078.93	24.80
359	3083.75	24.79
360	3088.56	24.79
361	3093.37	24.80
362	3098.18	24.80
363	3102.99	24.84
364	3107.80	24.88
365	3112.62	24.90
366	3117.43	24.90
367	3122.24	24.90
368	3127.05	24.90
369	3131.58	24.89
370	3136.12	24.90
371	3140.65	24.90
372	3145.19	24.89
373	3149.72	24.91
374	3154.63	24.99
375	3159.54	25.09
376	3164.45	25.17
377	3169.37	25.27
378	3174.28	25.43
379	3197.64	25.36
380	3202.15	25.37
381	3206.67	25.43
382	3211.18	25.54
383	3224.98	25.55
384	3229.76	25.45
385	3234.54	25.35
386	3239.31	25.28
387	3243.73	25.23
388	3248.16	25.19
389	3252.58	25.16
390	3257.01	25.15

Order	Station [ft]	Elevation [ft]
391	3261.43	25.15
392	3265.86	25.17
393	3270.28	25.18
394	3274.84	25.16
395	3279.39	25.15
396	3283.95	25.14
397	3288.50	25.14
398	3292.93	25.15
399	3297.36	25.16
400	3301.79	25.16
401	3306.66	25.15
402	3311.52	25.13
403	3316.39	25.11
404	3321.26	25.08
405	3326.12	25.06
406	3330.99	25.04
407	3335.88	25.01
408	3340.77	24.99
409	3345.66	24.96
410	3350.55	24.93
411	3355.44	24.91
412	3360.33	24.93
413	3365.22	24.98
414	3370.11	25.25
415	3375.00	25.33
416	3379.23	25.24
417	3383.46	25.17
418	3387.69	25.17
419	3391.92	25.24
420	3396.14	25.45
421	3400.37	25.50
422	3405.11	25.39
423	3409.84	25.30
424	3414.58	25.28
425	3418.80	25.37
426	3423.02	25.51
427	3481.31	25.30
428	3485.85	25.13
429	3490.39	25.14
430	3494.93	25.24
431	3498.61	25.36
432	3502.29	25.47
433	3505.98	25.54
434	3510.10	25.54
435	3514.22	25.49
436	3518.34	25.61
437	3522.46	25.53
438	3526.58	25.49
439	3530.61	25.47



Order	Station [ft]	Elevation [ft]
440	3534.65	25.44
441	3538.69	25.18
442	3543.32	25.12
443	3547.96	25.27
444	3552.59	25.44
445	3557.23	25.42
446	3561.76	25.31
447	3566.28	25.24
448	3570.81	25.22
449	3575.34	25.33
450	3579.60	25.25
451	3583.86	25.09
452	3588.11	25.23
453	3593.04	25.37
454	3597.97	25.39
455	3602.90	25.36
456	3607.83	25.36
457	3612.80	25.21
458	3617.77	24.95
459	3622.74	24.80
460	3627.71	24.80
461	3632.68	24.94
462	3637.64	25.13
463	3642.61	25.60
464	3757.35	25.44
465	3761.65	25.22
466	3765.94	25.42
467	3815.98	25.57
468	3820.54	25.43
469	3825.09	25.35
470	3829.65	25.19
471	3834.44	25.22
472	3839.22	25.30
473	3844.01	25.40
474	3848.79	25.49
475	3853.58	25.51
476	3858.37	25.50
477	3863.15	25.58
478	4063.66	25.46
479	4068.54	25.33
480	4073.42	25.34
481	4078.29	25.26
482	4083.17	25.14
483	4088.05	25.03
484	4092.92	24.99
485	4097.80	25.00
486	4102.68	25.03
487	4107.56	25.08
488	4112.26	25.12

Order	Station [ft]	Elevation [ft]
489	4116.97	25.18
490	4121.67	25.24
491	4126.38	25.31
492	4131.08	25.38
493	4135.79	25.43
494	4140.50	25.49
495	4145.20	25.55
496	4149.91	25.61

Comment:

Simulation: Mean Annual

Scenario: Scenario1  
 Run Date/Time: 8/29/2020 9:55:48 PM  
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight	0.5 dec		
Fact:			
dZ Tolerance:	0.0010 ft	Manual Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	~FLMOD
		Rainfall Amount:	5.00 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area	100 ft2	Min Node Srf Area	100 ft2
(2D):		(1D):	
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:
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## Simulation: SJRWMD 25Y-24H

Scenario: Scenario1  
Run Date/Time: 8/29/2020 10:04:58 PM  
Program Version: ICPR4 4.04.00

## General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000

End Time: 0 0 0 48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

#### Output Time Increments

##### Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Restart File

Save Restart: False

#### Resources & Lookup Tables

##### Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

##### Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

#### Tolerances & Options

Time Marching: SAOR  
Max Iterations: 6  
Over-Relax Weight 0.5 dec  
Fact:  
dZ Tolerance: 0.0010 ft

IA Recovery Time: 24.0000 hr  
ET for Manual Basins: False  
  
Manual Basin Rain Opt: Global



Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
Edge Length Option: Automatic	Rainfall Amount: 9.50 in
	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 100 ft2	Min Node Srf Area (1D): 100 ft2
	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: St Johns River Water Management District 25Y-24H

Simulation: Treatment Volume Recovery

Scenario: Scenario1  
 Run Date/Time: N/A  
 Program Version: N/A

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	40.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
 Reference ET Folder:  
 Unit Hydrograph  
 Folder:

## Lookup Tables

Boundary Stage Set:  
 Extern Hydrograph Set:  
 Curve Number Set: CN  
  
 Green-Ampt Set:  
 Vertical Layers Set:  
 Impervious Set: Default CN  
 Roughness Set:  
 Crop Coef Set:  
 Fillable Porosity Set:  
 Conductivity Set:  
 Leakage Set:

## Tolerances &amp; Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight	0.5 dec		
Fact:			
dZ Tolerance:	0.0010 ft	Manual Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	No Rainfall
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	
		Rainfall Amount:	0.00 in
Edge Length Option:	Automatic	Storm Duration:	0.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area	100 ft2	Min Node Srf Area	100 ft2
(2D):		(1D):	
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment: Treatment Volume Recovery
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## Alternate 1

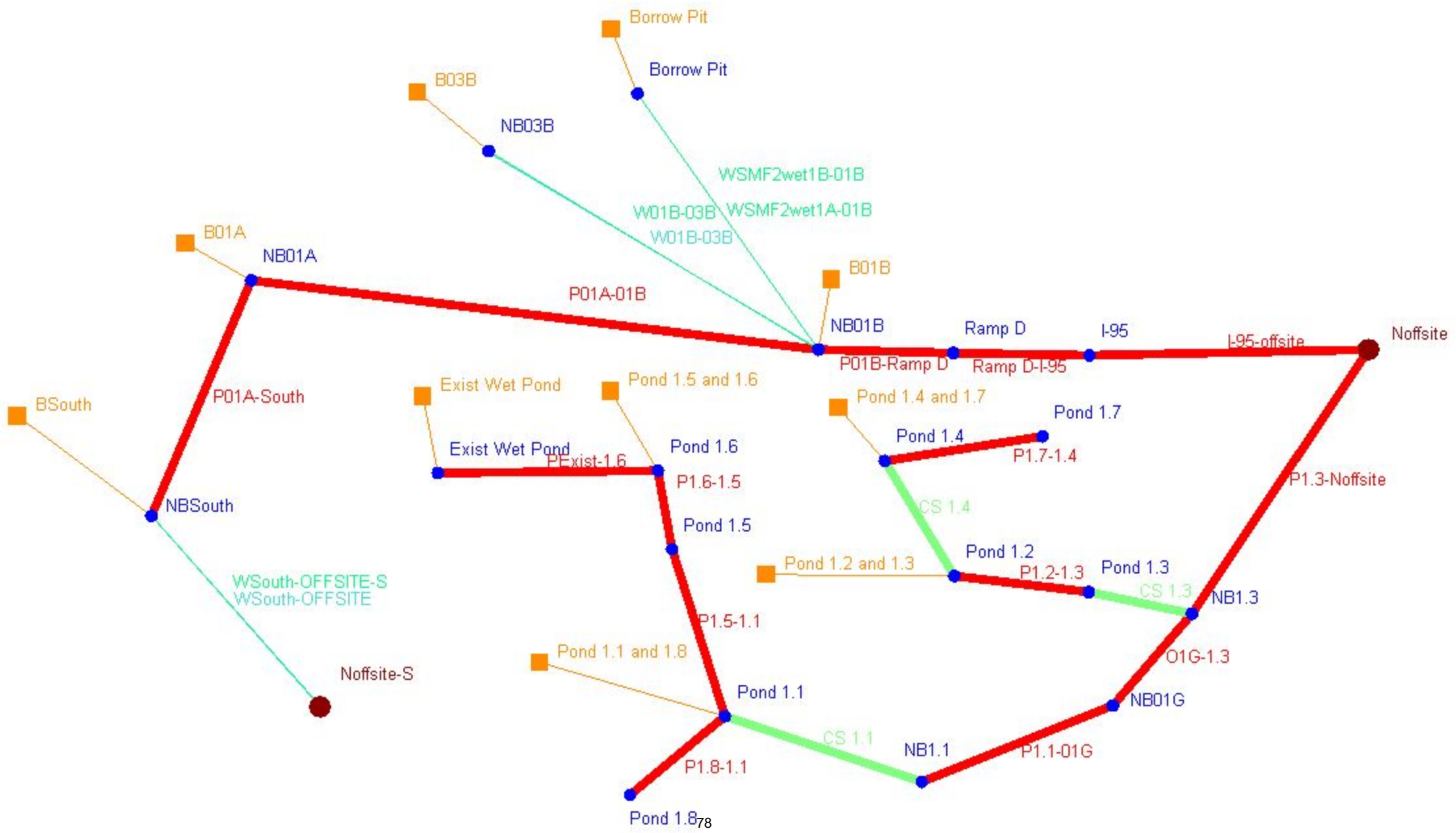
1D Nodes - Max

1

Scenario	Sim	Node Name	Maximum Stage [ft]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
Scenario1	Mean Annual	Borrow Pit	25.65	56.26	6.35
Scenario1	Mean Annual	Existing Pond	25.22	47.62	28.63
Scenario1	Mean Annual	NB01A	24.74	64.54	4.98
Scenario1	Mean Annual	NB01B	24.69	92.31	17.54
Scenario1	Mean Annual	NB01G	24.70	53.73	53.46
Scenario1	Mean Annual	NB03B	24.94	31.91	20.11
Scenario1	Mean Annual	NB1.1	24.80	54.01	53.73
Scenario1	Mean Annual	NB1.3	24.60	103.05	103.01
Scenario1	Mean Annual	NB1.4	26.17	42.54	42.48
Scenario1	Mean Annual	NB1.5	26.14	38.31	38.30
Scenario1	Mean Annual	NBSouth	24.74	35.59	3.20
Scenario1	Mean Annual	Noffsite	15.00	139.70	0.00
Scenario1	Mean Annual	Noffsite-S	24.50	2.67	0.00
Scenario1	SJRWMD 25Y-24H	Borrow Pit	26.22	112.14	29.29
Scenario1	SJRWMD 25Y-24H	Existing Pond	26.14	102.13	44.75
Scenario1	SJRWMD 25Y-24H	NB01A	25.20	141.63	48.03
Scenario1	SJRWMD 25Y-24H	NB01B	25.42	226.42	43.40
Scenario1	SJRWMD 25Y-24H	NB01G	26.00	116.27	95.95
Scenario1	SJRWMD 25Y-24H	NB03B	25.43	73.49	57.31
Scenario1	SJRWMD 25Y-24H	NB1.1	26.30	116.35	116.27
Scenario1	SJRWMD 25Y-24H	NB1.3	25.81	156.99	156.97
Scenario1	SJRWMD 25Y-24H	NB1.4	31.11	91.00	90.95
Scenario1	SJRWMD 25Y-24H	NB1.5	30.70	91.13	91.10
Scenario1	SJRWMD 25Y-24H	NBSouth	24.95	94.98	72.83
Scenario1	SJRWMD 25Y-24H	Noffsite	15.00	222.37	0.00
Scenario1	SJRWMD 25Y-24H	Noffsite-S	24.50	72.83	0.00

## Alternative 1 - ICPR Post-Development





## Manual Basin: B01A

Scenario: Scenario1  
 Node: NB01A  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 53.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
56.5600	B01A	B01A			

Comment:

## Manual Basin: B01B

Scenario: Scenario1  
 Node: NB01B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 23.5000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
19.5900	B01B	B01B			

Comment:

## Manual Basin: B03B

Scenario: Scenario1  
 Node: NB03B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 29.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
24.0000	B03B	B03B			

Comment:

Manual Basin: BSouth

Scenario: Scenario1  
 Node: NBSouth  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 59.7000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
30.1300	BSouth	BSouth			

Comment:

Manual Basin: Borrow Pit

Scenario: Scenario1  
 Node: Borrow Pit  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 21.0800 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
27.6000	Borrow Pit	Borrow Pit			

Comment:

Manual Basin: Exist Wet Pond

Scenario: Scenario1  
 Node: Exist Wet Pond  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 12.6600 min  
 Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
18.5600	Exist Wet Pond	Exist Wet Pond			

Comment:

Manual Basin: Pond 1.1 and 1.8

Scenario: Scenario1  
 Node: Pond 1.1  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
22.0400	Pond 1.1 and 1.8	Pond 1.1 and 1.8			

Comment:

Manual Basin: Pond 1.2 and 1.3

Scenario: Scenario1  
 Node: Pond 1.2  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
21.1200	Pond 1.2 and 1.3	Pond 1.2 and 1.3			

Comment:

Manual Basin: Pond 1.4 and 1.7



Scenario: Scenario1  
Node: Pond 1.4  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
19.5600	Pond 1.4 and 1.7	Pond 1.4 and 1.7			

Comment:

Manual Basin: Pond 1.5 and 1.6

Scenario: Scenario1  
Node: Pond 1.6  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
13.3200	Pond 1.5 and 1.6	Pond 1.5 and 1.6			

Comment:

Curve Number: CN [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
B01A	B01A	89.0
B01B	B01B	87.0
B01G	B01G	84.0
B03B	B03B	83.0
BSouth	BSouth	82.0
Borrow Pit	Borrow Pit	93.0
Exist Wet Pond	Exist Wet Pond	91.6
Pond 1.1 and 1.8	Pond 1.1 and 1.8	91.8
Pond 1.2 and 1.3	Pond 1.2 and 1.3	90.8
Pond 1.4 and 1.7	Pond 1.4 and 1.7	93.1
Pond 1.5 and 1.6	Pond 1.5 and 1.6	92.2

## Node: Borrow Pit

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.86 ft  
 Warning Stage: 27.86 ft

Stage [ft]	Area [ac]	Area [ft2]
1.86	5.5100	240016
24.86	8.2400	358934
27.86	8.9500	389862

Comment:

## Node: Exist Wet Pond

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.36 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	2.4800	108029
22.50	3.1800	138521
24.36	3.6200	157687
27.50	4.3900	191228
28.50	5.3400	232610

Comment:

## Node: I-95

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.00 ft  
 Warning Stage: 24.94 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
24.94	0.0000	0

Comment:

Node: NB01A

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 32.06 ft

Stage [ft]	Area [ac]	Area [ft2]
22.33	0.0010	44
23.33	0.1000	4356
24.33	15.5000	675180
25.33	31.9000	1389564
26.33	42.8000	1864368
27.33	52.1000	2269476
28.33	58.3000	2539548
29.33	60.8000	2648448
30.33	60.9000	2652804
31.33	61.0000	2657160
32.06	61.0000	2657160

Comment:

Node: NB01B

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.21 ft  
 Warning Stage: 51.46 ft

Stage [ft]	Area [ac]	Area [ft2]
22.21	0.0010	44
22.61	0.0010	44
23.61	0.7000	30492
24.61	17.7000	771012
25.61	27.2000	1184832
27.61	37.8000	1646568
28.61	39.1000	1703196
29.61	40.1000	1746756
30.61	40.7000	1772892
31.61	40.8000	1777248
32.61	40.8000	1777248
33.61	40.8000	1777248
34.61	40.9000	1781604
35.61	40.9000	1781604
36.61	40.9000	1781604
37.61	41.0000	1785960
38.61	41.0000	1785960

Stage [ft]	Area [ac]	Area [ft2]
39.61	41.0000	1785960
40.61	41.1000	1790316
41.61	41.1000	1790316
42.61	41.1000	1790316
43.61	41.2000	1794672
44.61	41.2000	1794672
45.61	41.2000	1794672
46.61	41.3000	1799028
47.61	41.3000	1799028
48.61	41.3000	1799028
49.61	41.4000	1803384
50.61	41.4000	1803384
51.51	41.4000	1803384
26.61	34.2000	1489752

Comment:

Node: NB01G

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.66 ft  
Warning Stage: 29.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.66	0.0000	0
23.50	0.0000	0
24.00	0.0110	479
24.50	0.2020	8799
25.00	0.5920	25788
25.50	2.4520	106809
26.00	3.4590	150674
26.50	3.7560	163611
27.00	3.9920	173892
27.50	4.3170	188049
28.00	4.5720	199156
28.50	4.8340	210569
29.00	5.0980	222069
29.50	5.3660	233743
30.00	5.6360	245504

Comment:

Node: NB03B



Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.06 ft  
 Warning Stage: 32.01 ft

Stage [ft]	Area [ac]	Area [ft2]
23.19	0.0010	44
24.19	0.3000	13068
25.19	6.5000	283140
26.19	11.5000	500940
27.19	13.5000	588060
28.19	14.1000	614196
29.19	14.4000	627264
30.19	14.6000	635976
31.19	14.6000	635976
32.01	14.6000	635976

Comment:

Node: NB1.1

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.75 ft  
 Warning Stage: 25.15 ft

Stage [ft]	Area [ac]	Area [ft2]
20.75	0.0000	0
25.15	0.0000	0

Comment:

Node: NB1.3

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.13 ft  
 Warning Stage: 25.86 ft

Stage [ft]	Area [ac]	Area [ft2]
20.13	0.0000	0
25.86	0.0000	0

Comment:

**Node: NBSouth**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 33.67 ft

Stage [ft]	Area [ac]	Area [ft2]
22.39	0.0010	44
22.89	0.0143	623
23.39	0.0964	4199
23.89	1.2391	53975
24.39	12.3783	539199
24.89	22.2377	968674
25.39	27.0965	1180324
25.89	31.2305	1360401
26.39	33.3190	1451376
26.89	34.2642	1492549
27.39	34.5225	1503800
27.89	34.6654	1510025
28.39	34.7297	1512826
28.89	34.7584	1514076
29.39	34.7687	1514525
29.89	34.7740	1514755
33.67	34.7740	1514755

Comment:

**Node: Noffsite**

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.00 ft  
 Warning Stage: 15.00 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	15.00
0	0	0	50.0000	15.00

Comment:

**Node: Noffsite-S**

Scenario: Scenario1  
 Type: Time/Stage

Base Flow: 0.00 cfs  
 Initial Stage: 24.50 ft  
 Warning Stage: 24.50 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	24.50
0	0	0	50.0000	24.50

Comment:

**Node: Pond 1.1**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.74 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.5400	67082
22.50	2.0400	88862
23.74	2.2500	98010
27.50	2.9100	126760
28.50	3.6100	157252

Comment:

**Node: Pond 1.2**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.5700	68389
22.50	2.0200	87991
24.29	2.3000	100188
27.50	2.8300	123275
28.50	3.4700	151153

Comment:

## Node: Pond 1.3

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.9300	40511
22.50	1.2600	54886
24.29	1.4600	63598
27.50	1.8400	80150
28.50	2.3200	101059

Comment:

## Node: Pond 1.4

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.5900	69260
22.50	2.0300	88427
24.29	2.3100	100624
27.50	2.8200	122839
28.50	3.4400	149846

Comment:

## Node: Pond 1.5

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.2700	55321
22.50	1.7200	74923
24.29	2.0000	87120
27.50	2.5200	109771
28.50	3.1500	137214

Comment:

**Node: Pond 1.6**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.6600	28750
22.50	0.8500	37026
24.29	0.9800	42689
27.50	1.2200	53143
28.50	1.5300	66647

Comment:

**Node: Pond 1.7**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	3.0800	134165
22.50	3.5500	154638
24.29	3.8300	166835
27.50	4.3600	189922
28.50	5.0100	218236

Comment:

**Node: Pond 1.8**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.74 ft  
 Warning Stage: 26.50 ft



Stage [ft]	Area [ac]	Area [ft2]
16.50	2.4900	108464
22.50	2.9600	128938
23.74	3.1600	137650
27.50	3.7900	165092
28.50	4.4500	193842

Comment:

**Node: Ramp D**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.09 ft  
 Warning Stage: 25.09 ft

Stage [ft]	Area [ac]	Area [ft2]
22.09	0.0000	0
25.09	0.0000	0

Comment:

**Drop Structure Link: CS 1.1**

	Upstream Pipe	Downstream Pipe
Scenario:	Scenario1	
From Node:	Pond 1.1	
To Node:	NB1.1	
Link Count:	1	
Flow Direction:	Both	
Solution:	Combine	
Increments:	10	
Pipe Count:	1	
Damping:	0.0000 ft	
Length:	365.00 ft	
FHWA Code:	0	
Entr Loss Coef:	0.50	
Exit Loss Coef:	1.00	
Bend Loss Coef:	0.00	
Bend Location:	0.00 ft	
Energy Switch:	Energy	
	Invert: 22.25 ft	Invert: 20.75 ft
	Manning's N: 0.0120	Manning's N: 0.0120
	Geometry: Circular	Geometry: Circular
	Max Depth: 2.00 ft	Max Depth: 2.00 ft
	Bottom Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000
	Top Clip	
	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Pipe Comment:

**Weir Component**

Weir: 1  
 Weir Count: 1  
 Weir Flow Direction: Both

Bottom Clip  
 Default: 0.00 ft  
 Op Table:

Damping: 0.0000 ft  
 Weir Type: Horizontal  
 Geometry Type: Rectangular  
 Invert: 26.50 ft  
 Control Elevation: 26.50 ft  
 Max Depth: 6.58 ft  
 Max Width: 3.00 ft  
 Fillet: 0.00 ft

Ref Node:  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment: DBI Type H  
 6'-7"x3'-0"

Weir Component

Weir: 2  
 Weir Count: 1  
 Weir Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Sharp Crested Vertical  
 Geometry Type: Circular  
 Invert: 23.49 ft  
 Control Elevation: 23.74 ft  
 Max Depth: 0.38 ft

Bottom Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment:

Weir Component

Weir: 3  
 Weir Count: 1  
 Weir Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Sharp Crested Vertical  
 Geometry Type: Rectangular  
 Invert: 24.94 ft  
 Control Elevation: 24.94 ft  
 Max Depth: 1.56 ft  
 Max Width: 3.20 ft  
 Fillet: 0.00 ft

Bottom Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS 1.3		Upstream Pipe	Downstream Pipe
Scenario:	Scenario1	Invert: 21.25 ft	Invert: 21.00 ft
From Node:	Pond 1.3	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB1.3	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	325.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft		
Energy Switch:	Energy		

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default: 0.00 ft	
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Horizontal	Default: 0.00 ft	
Geometry Type:	Rectangular	Op Table:	
Invert:	26.50 ft	Ref Node:	
Control Elevation:	26.50 ft	Discharge Coefficients	
Max Depth:	6.58 ft	Weir Default: 3.200	
Max Width:	3.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default: 0.600	
		Orifice Table:	

Weir Comment: DBI Type H  
6'-7"x3'-0"

Weir Component		Bottom Clip	
Weir:	2	Default: 0.00 ft	
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default: 0.00 ft	
Geometry Type:	Circular	Op Table:	
Invert:	24.04 ft	Ref Node:	
Control Elevation:	24.29 ft	Discharge Coefficients	
Max Depth:	0.25 ft	Weir Default: 3.200	
		Weir Table:	
		Orifice Default: 0.600	
		Orifice Table:	

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 24.92 ft	Op Table:
Control Elevation: 24.92 ft	Ref Node:
Max Depth: 1.58 ft	Discharge Coefficients
Max Width: 2.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS 1.4	Upstream Pipe	Downstream Pipe
Scenario: Scenario1	Invert: 21.00 ft	Invert: 19.75 ft
From Node: Pond 1.4	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Pond 1.2	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length: 250.00 ft	Top Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft		
Energy Switch: Energy		

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 26.50 ft	Op Table:

Control Elevation: 26.50 ft  
 Max Depth: 6.58 ft  
 Max Width: 3.00 ft  
 Fillet: 0.00 ft

Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment: DBI Type H  
 6'-7" x 3'-0"

Weir Component	
Weir: 2	Bottom Clip
Weir Count: 4	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 24.04 ft	Op Table:
Control Elevation: 24.29 ft	Ref Node:
Max Depth: 0.32 ft	Discharge Coefficients
	Weir Default: 3.200
	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 2	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 25.10 ft	Op Table:
Control Elevation: 25.10 ft	Ref Node:
Max Depth: 1.40 ft	Discharge Coefficients
Max Width: 4.50 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Pipe Link: I-95-offsite	Upstream	Downstream
Scenario: Scenario1	Invert: 21.94 ft	Invert: 20.84 ft
From Node: I-95	Manning's N: 0.0120	Manning's N: 0.0120



To Node:	Noffsite	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	540.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: O1G-1.3		Upstream	Downstream
Scenario:	Scenario1	Invert: 20.66 ft	Invert: 20.13 ft
From Node:	NB01G	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB1.3	Geometry: Rectangular	Geometry: Rectangular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping:	0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length:	180.00 ft	Bottom Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft	Top Clip	
Energy Switch:	Energy	Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: P01A-01B		Upstream	Downstream
Scenario:	Scenario1	Invert: 24.36 ft	Invert: 24.16 ft
From Node:	NB01A	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	NB01B	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count:	5	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	130.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft

Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01A-South		Upstream	Downstream
Scenario: Scenario1		Invert: 23.08 ft	Invert: 22.77 ft
From Node: NBSouth		Manning's N: 0.0130	Manning's N: 0.1300
To Node: NB01A		Geometry: Rectangular	Geometry: Rectangular
Link Count: 1		Max Depth: 2.25 ft	Max Depth: 2.25 ft
Flow Direction: Both		Max Width: 8.75 ft	Max Width: 8.75 ft
Damping: 0.0000 ft		Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 67.00 ft		Bottom Clip	
FHWA Code: 0		Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.20		Op Table:	Op Table:
Exit Loss Coef: 1.00		Ref Node:	Ref Node:
Bend Loss Coef: 0.00		Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft		Top Clip	
Energy Switch: Energy		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01B-Ramp D		Upstream	Downstream
Scenario: Scenario1		Invert: 22.20 ft	Invert: 22.10 ft
From Node: NB01B		Manning's N: 0.0120	Manning's N: 0.0120
To Node: Ramp D		Geometry: Circular	Geometry: Circular
Link Count: 1		Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both		Bottom Clip	
Damping: 0.0000 ft		Default: 0.00 ft	Default: 0.00 ft
Length: 105.00 ft		Op Table:	Op Table:
FHWA Code: 0		Ref Node:	Ref Node:
Entr Loss Coef: 0.50		Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00		Top Clip	
Bend Loss Coef: 0.00		Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft		Op Table:	Op Table:
Energy Switch: Energy		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P1.1-01G		Upstream	Downstream
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Scenario:	Scenario1	Invert:	20.75 ft	Invert:	20.66 ft
From Node:	NB1.1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	NB01G	Geometry:	Rectangular	Geometry:	Rectangular
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Max Width:	7.00 ft	Max Width:	7.00 ft
Damping:	0.0000 ft	Fillet:	0.00 ft	Fillet:	0.00 ft
Length:	180.00 ft	Bottom Clip			
FHWA Code:	0	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 ft	Top Clip			
Energy Switch:	Energy	Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P1.2-1.3		Upstream		Downstream	
Scenario:	Scenario1	Invert:	16.50 ft	Invert:	16.50 ft
From Node:	Pond 1.2	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Pond 1.3	Geometry:	Circular	Geometry:	Circular
Link Count:	2	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	195.00 ft	Op Table:		Op Table:	
FHWA Code:	0	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 ft	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link: P1.3-Noffsite		Upstream		Downstream	
Scenario:	Scenario1	Invert:	20.98 ft	Invert:	20.88 ft
From Node:	NB1.3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Noffsite	Geometry:	Rectangular	Geometry:	Rectangular
Link Count:	2	Max Depth:	5.00 ft	Max Depth:	5.00 ft
Flow Direction:	Both	Max Width:	7.00 ft	Max Width:	7.00 ft
Damping:	0.0000 ft	Fillet:	0.00 ft	Fillet:	0.00 ft
Length:	88.00 ft	Bottom Clip			
FHWA Code:	0	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	

Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P1.5-1.1		Upstream	Downstream
Scenario: Scenario1		Invert: 16.50 ft	Invert: 16.50 ft
From Node: Pond 1.5		Manning's N: 0.0120	Manning's N: 0.0120
To Node: Pond 1.1		Geometry: Circular	Geometry: Circular
Link Count: 1		Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both		Bottom Clip	
Damping: 0.0000 ft		Default: 0.00 ft	Default: 0.00 ft
Length: 330.00 ft		Op Table:	Op Table:
FHWA Code: 0		Ref Node:	Ref Node:
Entr Loss Coef: 1.00		Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 0.50		Top Clip	
Bend Loss Coef: 0.00		Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft		Op Table:	Op Table:
Energy Switch: Energy		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P1.6-1.5		Upstream	Downstream
Scenario: Scenario1		Invert: 16.50 ft	Invert: 16.50 ft
From Node: Pond 1.6		Manning's N: 0.0120	Manning's N: 0.0120
To Node: Pond 1.5		Geometry: Circular	Geometry: Circular
Link Count: 1		Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both		Bottom Clip	
Damping: 0.0000 ft		Default: 0.00 ft	Default: 0.00 ft
Length: 175.00 ft		Op Table:	Op Table:
FHWA Code: 0		Ref Node:	Ref Node:
Entr Loss Coef: 0.50		Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00		Top Clip	
Bend Loss Coef: 0.00		Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft		Op Table:	Op Table:
Energy Switch: Energy		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P1.7-1.4		Upstream	Downstream
Scenario:	Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node:	Pond 1.7	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Pond 1.4	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	185.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P1.8-1.1		Upstream	Downstream
Scenario:	Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node:	Pond 1.8	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Pond 1.1	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	175.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	1.00	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	0.50	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: PExist-1.6		Upstream	Downstream
Scenario:	Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node:	Exist Wet Pond	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Pond 1.6	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.50 ft	Max Depth: 3.50 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	180.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	



Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

<b>Pipe Link: Ramp D-I-95</b>		
	Upstream	Downstream
Scenario: Scenario1	Invert: 22.10 ft	Invert: 21.94 ft
From Node: Ramp D	Manning's N: 0.0120	Manning's N: 0.0120
To Node: I-95	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Positive	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 275.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

<b>Weir Link: W01B-03B</b>		
Scenario: Scenario1	Bottom Clip	
From Node: NB01B	Default: 0.00 ft	
To Node: NB03B	Op Table:	
Link Count: 1	Ref Node:	
Flow Direction: Both	Top Clip	
Damping: 0.0000 ft	Default: 0.00 ft	
Weir Type: Sharp Crested Vertical	Op Table:	
Geometry Type: Irregular	Ref Node:	
Invert: 24.46 ft	Discharge Coefficients	
Control Elevation: 24.46 ft	Weir Default: 2.800	
Cross Section: W01B-03B	Weir Table:	
	Orifice Default: 0.600	
	Orifice Table:	

Comment:

<b>Weir Link: WSMF2wet1A-01B</b>		
Scenario: Scenario1	Bottom Clip	
From Node: Borrow Pit	Default: 0.00 ft	

To Node:	NB01B	
Link Count:	1	Op Table:
Flow Direction:	Both	Ref Node:
Damping:	0.0000 ft	Top Clip
Weir Type:	Sharp Crested Vertical	Default: 0.00 ft
Geometry Type:	Rectangular	Op Table:
Invert:	24.86 ft	Ref Node:
Control Elevation:	24.86 ft	Discharge Coefficients
Max Depth:	0.60 ft	Weir Default: 3.200
Max Width:	0.60 ft	Weir Table:
Fillet:	0.00 ft	Orifice Default: 0.600
		Orifice Table:

Comment:

Weir Link: WSMF2wet1B-01B

Scenario:	Scenario1	Bottom Clip
From Node:	Borrow Pit	Default: 0.00 ft
To Node:	NB01B	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Sharp Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	25.37 ft	Discharge Coefficients
Control Elevation:	25.37 ft	Weir Default: 3.200
Max Depth:	900.00 ft	Weir Table:
Max Width:	11.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: WSouth-OFFSITE-S

Scenario:	Scenario1	Bottom Clip
From Node:	NBSouth	Default: 0.00 ft
To Node:	Noffsite-S	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Sharp Crested Vertical	Op Table:
Geometry Type:	Irregular	Ref Node:
Invert:	24.62 ft	Discharge Coefficients
Control Elevation:	24.62 ft	Weir Default: 2.800
Cross Section:	WSouth-OFFSITE	Weir Table:
		Orifice Default: 0.600
		Orifice Table:

Comment:

Weir Cross Section: W01B-03B

Scenario: Scenario1

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.97
1	4.83	25.55
2	9.65	25.20
3	14.48	25.23
4	19.31	25.56
5	24.13	25.80
6	28.96	25.78
7	33.79	25.74
8	38.61	25.71
9	43.44	25.68
10	48.27	25.66
11	53.09	25.78
12	57.92	25.93
13	62.75	26.03
14	67.57	26.02
15	72.40	25.98
16	77.23	26.00
17	82.05	26.03
18	86.88	25.97
19	91.71	25.88
20	96.53	26.07
21	101.36	25.98
22	106.18	25.67
23	111.01	25.54
24	115.84	25.57
25	120.66	25.30
26	125.49	25.18
27	130.11	25.17
28	134.73	25.11
29	139.35	25.03
30	143.97	24.99
31	148.59	25.07
32	153.21	25.13
33	157.83	25.19
34	162.45	25.25
35	167.07	25.29
36	171.69	25.48
37	176.31	26.15
38	180.93	27.31
39	185.55	27.77
40	190.51	28.96
41	195.46	29.22
42	200.41	29.38
43	205.37	29.47

Order	Station [ft]	Elevation [ft]
44	210.32	29.65
45	215.28	29.91
46	220.23	30.16
47	225.19	29.76
48	230.14	28.89
49	235.10	27.90
50	240.05	27.15
51	245.01	26.45
52	249.96	25.90
53	254.92	25.57
54	259.87	25.79
56	264.83	25.74
57	269.78	25.61
58	274.74	25.51
59	279.69	25.40
60	284.64	25.27
61	289.60	25.15
62	294.55	25.08
63	299.51	25.10
64	304.46	25.07
65	309.42	25.00
66	314.37	24.87
67	319.33	24.63
68	324.28	24.46
69	329.24	24.51
70	334.19	24.82
71	339.15	25.04
72	344.10	25.45
73	348.95	25.45
74	353.79	25.13
75	358.64	25.10
76	363.48	25.05
77	368.33	24.76
78	373.17	24.78
79	378.02	24.68
80	382.86	24.87
81	387.71	25.00
82	392.55	25.17
83	397.40	25.35
84	402.24	25.55
85	407.09	25.72
86	411.93	25.81
87	416.78	25.88
88	421.63	25.97
89	426.47	26.44
90	431.32	27.14
91	436.16	27.40
92	441.01	27.45
93	445.85	27.44

Order	Station [ft]	Elevation [ft]
94	450.70	27.33
95	455.51	27.32
96	460.33	27.44
97	465.14	27.20
98	469.95	26.40
99	474.77	26.25
100	479.58	25.85
101	484.40	25.59
102	489.21	25.53
103	494.02	25.31
104	498.84	25.33
105	503.65	25.58
106	508.47	25.80
107	513.28	26.02
108	518.10	26.09
109	522.91	25.97
110	527.72	25.77
111	532.54	25.67
112	537.35	25.80
113	542.17	25.84
114	546.98	25.68
115	551.80	25.56
116	556.61	25.64
117	561.42	25.66
118	566.27	25.54
119	571.11	25.43
120	575.95	25.80
121	580.80	26.24
122	585.64	26.37
123	590.48	26.42
124	595.33	26.52
125	600.17	26.20
126	605.01	25.88
127	609.86	25.58
128	614.70	25.29
129	619.54	25.11
130	624.39	25.03
131	629.23	25.00
132	634.07	24.99
133	638.92	24.97
134	643.80	24.94
135	648.68	24.91
136	653.56	24.86
137	658.44	24.82
138	663.32	24.79
139	668.20	24.77
140	673.09	24.81
141	677.97	25.02
142	682.85	25.26



Order	Station [ft]	Elevation [ft]
143	687.73	25.37
144	692.61	25.46
145	697.49	25.55
146	702.37	25.62
147	707.25	25.68
148	712.14	25.66
149	717.02	25.58
150	721.90	25.50
151	726.78	25.49
152	731.66	25.57
153	736.54	25.68
154	741.42	25.72
155	746.30	25.71
156	751.18	25.70
157	756.04	25.68
158	760.89	25.66
159	765.74	25.66
160	770.59	25.95
161	775.44	26.29
162	780.29	26.41
163	785.14	26.41
164	789.99	26.40
165	794.84	26.40
166	799.69	26.32
167	804.54	26.32
168	809.39	26.48
169	814.25	26.72
170	819.10	26.66
171	823.95	26.39
172	828.80	26.08
173	833.65	26.73
174	838.50	25.50
175	843.50	25.40
176	848.20	25.36
177	853.05	25.37
178	857.90	25.38
179	862.75	25.42
180	867.60	25.39
181	872.46	25.26
182	877.31	25.12
183	882.16	25.08
184	887.01	25.14
185	891.86	25.19
186	896.74	25.20
187	901.56	25.15
188	906.32	25.17
189	911.09	25.08
190	915.85	24.94
191	920.62	24.80

Order	Station [ft]	Elevation [ft]
192	925.38	24.63
193	930.14	24.96
194	934.91	25.16
195	939.67	25.18
196	944.43	25.25
197	949.20	25.35
198	953.96	25.45
199	958.73	25.31
200	963.49	25.88
201	968.25	27.02
202	973.02	28.09
203	977.78	28.47
204	982.55	28.17
205	987.31	27.41
206	992.07	26.58
207	996.99	25.99
208	1001.91	25.61
209	1006.83	25.50
210	1011.74	25.56
211	1016.66	25.46
212	1021.58	25.41
213	1026.50	25.39
214	1031.41	25.49
215	1036.33	25.52
216	1041.25	25.50
217	1046.17	25.44
218	1051.08	25.45
219	1056.00	25.74
220	1060.92	26.00
221	1065.84	26.18
222	1070.75	26.35
223	1075.67	26.39
224	1080.59	26.23
225	1085.51	26.02
226	1090.42	25.97
227	1095.34	25.79
228	1100.26	25.65
229	1105.18	25.82
230	1110.10	26.39
231	1115.01	27.03
232	1119.93	27.44
233	1124.85	27.65
234	1129.83	27.59
235	1134.82	27.45
236	1139.80	27.03
237	1144.79	26.51
238	1149.77	26.17
239	1154.76	26.14
240	1159.74	26.15

Order	Station [ft]	Elevation [ft]
241	1164.73	26.20
242	1169.72	26.28
243	1174.70	26.22
244	1179.69	26.08
245	1184.67	26.00
246	1189.66	26.13
247	1194.64	26.26
248	1199.63	26.14
249	1204.61	25.96
250	1209.60	25.77
251	1214.58	25.61
252	1219.57	25.40
253	1224.55	25.47
254	1229.54	25.52
255	1234.52	25.59
256	1239.51	25.70
257	1244.49	25.90
258	1249.48	26.08
259	1254.47	26.10
260	1259.45	26.04
261	1264.42	26.10
262	1269.39	26.50
263	1274.36	26.93
264	1279.33	27.12
265	1284.30	27.25
266	1289.27	27.23
267	1294.24	27.14
268	1299.21	26.93
269	1304.18	26.73
270	1309.15	26.74
271	1314.13	26.20
272	1319.10	26.05
273	1324.07	26.27
274	1329.04	26.35
275	1334.01	26.09
276	1338.98	25.80
277	1343.95	25.74
278	1348.92	25.63
279	1353.89	25.45
280	1358.86	25.04
281	1363.83	24.87
282	1368.80	25.06
283	1373.77	25.06
284	1378.74	25.33
285	1383.71	25.09
286	1388.68	24.96
287	1393.65	25.19
288	1398.62	25.92
289	1403.52	26.09

Order	Station [ft]	Elevation [ft]
290	1408.41	26.26
291	1413.30	26.27
292	1418.19	26.12
293	1423.08	26.13
294	1427.98	26.08
295	1432.87	25.97
296	1437.76	25.98
297	1442.65	26.24
298	1447.55	26.54
299	1452.44	26.41
300	1457.33	25.84
301	1462.23	25.32
302	1467.12	25.55
303	1472.01	26.46
304	1476.90	27.00
305	1481.79	27.21
306	1486.69	27.09
307	1491.58	26.91
308	1496.47	26.73
309	1501.37	26.57
310	1506.26	26.39
311	1511.15	26.27
312	1516.04	26.17
313	1520.94	26.19
314	1525.83	26.24
315	1530.78	26.09
316	1535.73	25.92
317	1540.69	25.87
318	1545.64	25.89
319	1550.59	26.39
320	1555.55	26.87
321	1560.50	27.08
322	1565.45	27.35
323	1570.41	27.55
324	1575.36	27.68
325	1580.31	27.79
326	1585.27	28.11
327	1590.22	28.28
328	1595.17	28.20
329	1600.13	28.68
330	1605.08	28.85
331	1610.03	28.63
332	1614.99	28.62
333	1619.94	28.72
334	1624.89	28.45
335	1629.84	28.71
336	1634.79	28.73
337	1639.74	28.60
338	1644.69	28.13

Order	Station [ft]	Elevation [ft]
339	1647.78	28.15
340	1652.35	28.36
341	1656.93	28.49
342	1661.51	28.36
343	1666.08	28.23
344	1670.66	28.10
345	1675.23	27.87
346	1679.78	27.73
347	1684.32	27.70
348	1688.86	27.70
349	1693.40	27.67
350	1697.94	27.95
351	1702.48	27.90
352	1707.02	28.03
353	1711.56	28.31
354	1716.11	28.28
355	1720.75	28.39
356	1725.40	28.49
357	1730.05	28.49
358	1734.69	28.54
359	1739.34	28.65
360	1743.99	28.51
361	1748.63	28.14
362	1753.28	28.04
363	1757.93	27.95
364	1762.89	28.04
365	1767.85	28.05
366	1772.81	28.20
367	1777.77	28.34
368	1782.74	28.70
369	1787.70	28.93
370	1792.66	28.91
371	1797.62	28.70
372	1802.30	28.37
373	1806.98	28.20
374	1811.66	28.22
375	1816.33	28.21
376	1821.01	28.22
377	1825.69	28.23
378	1830.37	28.11
379	1835.03	28.17
380	1839.70	28.49
381	1844.36	29.06
382	1849.02	29.07
383	1853.75	28.90
384	1858.49	28.63
385	1863.22	28.63
386	1867.95	28.58
387	1872.68	28.35



Order	Station [ft]	Elevation [ft]
388	1877.42	27.96
389	1882.15	27.72
390	1886.88	27.43
391	1891.61	27.24
392	1896.35	27.21
393	1901.08	27.20
394	1905.81	27.17
395	1910.48	27.22
396	1915.16	27.31
397	1919.83	27.36
398	1924.50	27.49
399	1929.18	27.68
400	1934.02	27.78
401	1938.86	27.82
402	1943.70	27.52
403	1948.55	27.28
404	1953.39	27.14
405	1958.23	27.40
406	1963.08	27.82
407	1967.92	28.02
408	1972.43	27.73
409	1976.95	27.15
410	1981.46	27.17
411	1985.97	27.16
412	1990.49	27.11
413	1995.00	27.06
414	1999.52	27.05
415	2004.27	27.05
416	2009.02	27.08
417	2013.77	27.16
418	2018.52	27.20
419	2023.27	27.16
420	2028.02	27.32
421	2032.77	27.80
422	2037.52	28.16
423	2042.27	28.33
424	2047.02	28.22
425	2051.77	28.17
426	2056.52	28.13
427	2061.45	28.02
428	2066.39	27.96
429	2071.33	27.82
430	2076.27	27.78
431	2081.20	27.73
432	2086.14	27.44
433	2091.08	27.36
434	2095.71	27.29
435	2100.34	27.23
436	2104.94	27.17

Order	Station [ft]	Elevation [ft]
437	2109.60	27.11
438	2114.23	27.00
439	2118.86	27.19
440	2123.49	27.50
441	2128.31	27.26
442	2133.14	27.17
443	2137.96	27.40
444	2142.78	27.60
445	2147.61	27.66
446	2152.43	27.46
447	2157.26	27.30
448	2162.08	27.14
449	2166.90	27.18
450	2171.73	27.26
451	2176.55	27.40
452	2181.38	27.86
453	2186.20	28.17
454	2191.02	28.29
455	2195.85	28.35
456	2200.67	28.72

Comment:

Weir Cross Section: WSouth-OFFSITE

Scenario: Scenario1

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	19.25	25.47
1	24.07	25.04
2	28.88	24.99
3	33.69	25.29
4	38.51	25.43
5	43.32	25.45
6	48.06	25.45
7	52.79	25.56
8	57.53	25.61
9	61.87	25.55
10	66.22	25.47
11	70.56	25.50
12	75.12	25.57
13	473.70	25.36
14	478.51	25.30
15	483.32	25.42
16	528.44	25.52

Order	Station [ft]	Elevation [ft]
17	533.26	25.44
18	538.08	25.35
19	542.93	25.39
20	547.79	25.45
21	552.65	25.45
22	557.51	25.50
23	562.36	25.25
24	566.43	25.10
25	570.49	24.95
26	574.56	24.97
27	578.62	24.98
28	582.69	25.01
29	587.13	25.02
30	591.57	25.12
31	596.02	25.29
32	600.46	25.45
33	604.90	25.61
34	614.21	25.56
35	619.07	25.43
36	623.93	25.30
37	628.79	25.17
38	633.65	25.05
39	638.51	25.06
40	643.36	25.23
41	648.22	25.17
42	653.08	25.06
43	657.94	25.48
44	766.40	25.61
45	771.20	25.31
46	776.00	25.30
47	780.80	25.48
48	785.60	25.55
49	789.90	25.47
50	794.19	25.35
51	798.49	25.24
52	802.93	25.17
53	807.36	25.07
54	811.80	25.04
55	816.23	25.10
56	820.67	25.24
57	825.11	25.41
58	903.28	25.61
59	907.96	25.41
60	912.64	25.26
61	917.32	25.09
62	922.00	24.93
63	926.68	24.90
64	930.16	24.90
65	933.63	24.92

Order	Station [ft]	Elevation [ft]
66	937.11	24.93
67	941.60	25.01
68	946.09	25.11
69	950.58	25.26
70	955.07	25.42
71	959.56	25.49
72	964.22	25.43
73	968.88	25.32
74	973.54	25.35
75	977.14	25.41
76	980.74	25.35
77	984.33	25.24
78	988.82	25.23
79	993.31	25.20
80	997.80	25.20
81	1002.29	25.18
82	1006.78	25.15
83	1011.64	25.12
84	1016.49	25.30
85	1021.35	25.56
86	1026.20	25.60
87	1031.06	25.50
88	1035.91	25.37
89	1040.77	25.39
90	1045.65	25.31
91	1050.54	25.24
92	1055.43	25.27
93	1060.32	25.33
94	1065.20	25.42
95	1070.09	25.34
96	1074.98	25.38
97	1079.43	25.36
98	1083.89	25.31
99	1088.34	25.27
100	1092.80	25.29
101	1097.22	25.39
102	1101.65	25.45
103	1106.07	25.48
104	1110.49	25.50
105	1114.92	25.44
106	1119.34	25.36
107	1123.76	25.28
108	1128.23	25.19
109	1132.70	25.08
110	1137.16	24.99
111	1141.63	24.91
112	1146.10	25.02
113	1150.57	25.19
114	1154.87	25.34

Order	Station [ft]	Elevation [ft]
115	1159.17	25.51
116	1163.47	25.61
117	1172.23	25.47
118	1176.70	25.20
119	1181.17	24.97
120	1185.63	24.86
121	1190.31	24.80
122	1195.00	24.85
123	1198.49	24.89
124	1201.99	25.05
125	1205.48	25.23
126	1209.63	25.26
127	1213.78	25.28
128	1217.93	25.06
129	1222.89	24.94
130	1227.85	24.85
131	1231.72	24.82
132	1235.59	24.83
133	1239.46	24.85
134	1243.26	24.89
135	1247.05	24.92
136	1250.85	25.09
137	1254.64	25.38
138	1271.59	25.55
139	1275.71	25.54
140	1279.83	25.60
141	1736.72	25.61
142	1741.15	25.54
143	1745.58	25.51
144	1750.00	25.52
145	1754.66	25.56
146	1788.17	25.60
147	1793.13	25.54
148	1798.04	25.52
149	1802.96	25.54
150	1807.87	25.57
151	1859.55	25.50
152	1863.74	25.41
153	1867.94	25.35
154	1872.14	25.33
155	1876.34	25.32
156	1880.54	25.31
157	1884.73	25.32
158	1889.68	25.32
159	1894.62	25.33
160	1899.57	25.42
161	1903.56	25.49
162	1907.55	25.47
163	1911.54	25.61



Order	Station [ft]	Elevation [ft]
164	1947.55	25.41
165	1951.76	25.29
166	1955.96	25.26
167	1960.17	25.24
168	2009.94	25.53
169	2014.75	25.41
170	2019.57	25.39
171	2024.38	25.28
172	2029.20	25.12
173	2034.02	25.00
174	2038.83	24.93
175	2043.65	24.86
176	2048.32	24.83
177	2052.99	24.78
178	2057.66	24.79
179	2062.33	24.79
180	2067.00	24.85
181	2071.67	24.95
182	2076.34	25.02
183	2081.01	24.98
184	2085.44	24.95
185	2089.87	24.86
186	2094.29	24.77
187	2098.72	24.69
188	2103.21	24.68
189	2107.70	24.68
190	2112.19	24.68
191	2116.69	24.69
192	2121.18	24.72
193	2125.67	24.78
194	2130.16	24.99
195	2134.65	25.32
196	2139.15	25.45
197	2143.57	25.17
198	2148.00	24.95
199	2152.42	24.93
200	2156.85	24.85
201	2161.58	24.79
202	2166.31	24.75
203	2171.04	24.74
204	2175.77	24.83
205	2180.50	25.04
206	2185.23	25.23
207	2189.84	25.22
208	2194.44	24.80
209	2199.05	24.70
210	2203.65	24.75
211	2208.26	24.71
212	2212.86	24.75

Order	Station [ft]	Elevation [ft]
213	2217.47	24.84
214	2222.07	24.94
215	2226.86	25.00
216	2231.65	25.06
217	2236.44	25.13
218	2241.23	25.51
219	2317.92	25.58
220	2322.73	25.52
221	2327.53	25.46
222	2332.34	25.41
223	2337.15	25.36
224	2341.95	25.31
225	2346.76	25.28
226	2351.56	25.28
227	2356.37	25.30
228	2361.17	25.34
229	2365.98	25.37
230	2370.78	25.42
231	2375.59	25.47
232	2400.56	25.61
233	2405.56	25.36
234	2410.48	25.32
235	2415.40	25.35
236	2420.33	25.35
237	2425.25	25.35
238	2430.17	25.35
239	2435.10	25.36
240	2440.02	25.37
241	2444.21	25.38
242	2448.39	25.39
243	2452.58	25.41
244	2456.77	25.41
245	2460.96	25.42
246	2465.27	25.39
247	2469.59	25.35
248	2473.90	25.32
249	2478.22	25.30
250	2482.53	25.29
251	2486.84	25.29
252	2491.16	25.28
253	2496.09	25.26
254	2501.01	25.25
255	2505.94	25.27
256	2510.87	25.30
257	2515.80	25.31
258	2520.72	25.28
259	2525.69	25.24
260	2530.65	25.18
261	2535.62	25.10

Order	Station [ft]	Elevation [ft]
262	2540.58	25.01
263	2545.55	24.92
264	2550.51	24.85
265	2555.48	24.80
266	2560.44	24.75
267	2565.40	24.71
268	2570.37	24.67
269	2575.33	24.64
270	2580.30	24.62
271	2585.03	24.63
272	2589.76	24.66
273	2594.50	24.74
274	2599.23	24.82
275	2603.96	25.19
276	2608.69	25.37
277	2613.43	25.21
278	2618.16	25.06
279	2622.65	25.07
280	2627.13	25.10
281	2631.62	25.21
282	2636.11	25.43
283	2666.87	25.51
284	2671.20	25.47
285	2675.52	25.49
286	2679.57	25.51
287	2683.63	25.56
288	2736.54	25.52
289	2741.22	25.46
290	2745.89	25.41
291	2750.57	25.38
292	2755.25	25.35
293	2759.92	25.33
294	2764.60	25.29
295	2769.27	25.26
296	2773.87	25.22
297	2778.46	25.18
298	2783.06	25.14
299	2787.65	25.12
300	2792.25	25.10
301	2796.84	25.08
302	2801.44	25.06
303	2806.03	25.04
304	2810.63	25.03
305	2815.22	25.02
306	2819.82	25.02
307	2824.41	25.03
308	2828.95	25.04
309	2833.48	25.07
310	2838.01	25.11

Order	Station [ft]	Elevation [ft]
311	2842.54	25.18
312	2847.29	25.24
313	2852.04	25.47
314	2879.45	25.42
315	2883.83	25.19
316	2888.22	25.06
317	2892.60	24.95
318	2896.99	24.87
319	2901.37	24.80
320	2906.00	24.77
321	2910.63	24.76
322	2915.26	24.77
323	2919.89	24.78
324	2924.09	24.82
325	2928.28	24.95
326	2932.48	25.13
327	2936.67	25.21
328	2940.59	25.12
329	2944.52	24.99
330	2948.44	24.84
331	2952.36	24.75
332	2957.04	24.76
333	2961.73	24.77
334	2966.42	24.83
335	2971.10	24.90
336	2975.79	25.00
337	2979.75	25.25
338	2983.71	25.39
339	2987.68	25.39
340	2991.64	25.28
341	2996.52	25.15
342	3001.40	25.03
343	3006.29	24.92
344	3011.17	24.83
345	3016.05	24.78
346	3020.94	24.80
347	3025.82	24.79
348	3030.70	24.80
349	3035.59	24.80
350	3040.40	24.80
351	3045.22	24.79
352	3050.04	24.78
353	3054.84	24.78
354	3059.67	24.78
355	3064.49	24.78
356	3069.31	24.79
357	3074.12	24.80
358	3078.93	24.80
359	3083.75	24.79

Order	Station [ft]	Elevation [ft]
360	3088.56	24.79
361	3093.37	24.80
362	3098.18	24.80
363	3102.99	24.84
364	3107.80	24.88
365	3112.62	24.90
366	3117.43	24.90
367	3122.24	24.90
368	3127.05	24.90
369	3131.58	24.89
370	3136.12	24.90
371	3140.65	24.90
372	3145.19	24.89
373	3149.72	24.91
374	3154.63	24.99
375	3159.54	25.09
376	3164.45	25.17
377	3169.37	25.27
378	3174.28	25.43
379	3197.64	25.36
380	3202.15	25.37
381	3206.67	25.43
382	3211.18	25.54
383	3224.98	25.55
384	3229.76	25.45
385	3234.54	25.35
386	3239.31	25.28
387	3243.73	25.23
388	3248.16	25.19
389	3252.58	25.16
390	3257.01	25.15
391	3261.43	25.15
392	3265.86	25.17
393	3270.28	25.18
394	3274.84	25.16
395	3279.39	25.15
396	3283.95	25.14
397	3288.50	25.14
398	3292.93	25.15
399	3297.36	25.16
400	3301.79	25.16
401	3306.66	25.15
402	3311.52	25.13
403	3316.39	25.11
404	3321.26	25.08
405	3326.12	25.06
406	3330.99	25.04
407	3335.88	25.01
408	3340.77	24.99

Order	Station [ft]	Elevation [ft]
409	3345.66	24.96
410	3350.55	24.93
411	3355.44	24.91
412	3360.33	24.93
413	3365.22	24.98
414	3370.11	25.25
415	3375.00	25.33
416	3379.23	25.24
417	3383.46	25.17
418	3387.69	25.17
419	3391.92	25.24
420	3396.14	25.45
421	3400.37	25.50
422	3405.11	25.39
423	3409.84	25.30
424	3414.58	25.28
425	3418.80	25.37
426	3423.02	25.51
427	3481.31	25.30
428	3485.85	25.13
429	3490.39	25.14
430	3494.93	25.24
431	3498.61	25.36
432	3502.29	25.47
433	3505.98	25.54
434	3510.10	25.54
435	3514.22	25.49
436	3518.34	25.61
437	3522.46	25.53
438	3526.58	25.49
439	3530.61	25.47
440	3534.65	25.44
441	3538.69	25.18
442	3543.32	25.12
443	3547.96	25.27
444	3552.59	25.44
445	3557.23	25.42
446	3561.76	25.31
447	3566.28	25.24
448	3570.81	25.22
449	3575.34	25.33
450	3579.60	25.25
451	3583.86	25.09
452	3588.11	25.23
453	3593.04	25.37
454	3597.97	25.39
455	3602.90	25.36
456	3607.83	25.36
457	3612.80	25.21



Order	Station [ft]	Elevation [ft]
458	3617.77	24.95
459	3622.74	24.80
460	3627.71	24.80
461	3632.68	24.94
462	3637.64	25.13
463	3642.61	25.60
464	3757.35	25.44
465	3761.65	25.22
466	3765.94	25.42
467	3815.98	25.57
468	3820.54	25.43
469	3825.09	25.35
470	3829.65	25.19
471	3834.44	25.22
472	3839.22	25.30
473	3844.01	25.40
474	3848.79	25.49
475	3853.58	25.51
476	3858.37	25.50
477	3863.15	25.58
478	4063.66	25.46
479	4068.54	25.33
480	4073.42	25.34
481	4078.29	25.26
482	4083.17	25.14
483	4088.05	25.03
484	4092.92	24.99
485	4097.80	25.00
486	4102.68	25.03
487	4107.56	25.08
488	4112.26	25.12
489	4116.97	25.18
490	4121.67	25.24
491	4126.38	25.31
492	4131.08	25.38
493	4135.79	25.43
494	4140.50	25.49
495	4145.20	25.55
496	4149.91	25.61

Comment:

Simulation: 3yr

Scenario: Scenario1

Run Date/Time: N/A

Program Version: N/A

## General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

## Output Time Increments

## Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 5.50 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

#### Simulation: Mean Annual

Scenario: Scenario1  
Run Date/Time: 8/29/2020 9:15:03 PM  
Program Version: ICPR4 4.04.00

#### General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000
	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]	
Min Calculation Time:	60.0000	0.1000	900.0000	
Max Calculation Time:		30.0000		

#### Output Time Increments

##### Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 5.00 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2	Min Node Srf Area: 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

## Simulation: SJRWMD 25Y-24H

Scenario: Scenario1  
Run Date/Time: 8/29/2020 9:24:52 PM  
Program Version: ICPR4 4.04.00

## General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

## Output Time Increments

## Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 9.50 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: St Johns River Water Management District 25Y-24H

Simulation: Treatment Volume Recovery

Scenario: Scenario1  
 Run Date/Time: 8/29/2020 8:45:57 PM  
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	40.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000



## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: No Rainfall
Link Optimizer Tol: 0.0001 ft	Rainfall Name:
	Rainfall Amount: 0.00 in
Edge Length Option: Automatic	Storm Duration: 0.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: Treatment Volume Recovery
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Sim	Node Name	Maximum Stage [ft]	Time to Maximum Stage [hrs]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
Mean Annual	Borrow Pit	25.65	14.3046	56.26	6.35
Mean Annual	Exist Wet Pond	25.32	23.6791	52.18	13.17
Mean Annual	I-95	23.56	15.3890	16.40	16.40
Mean Annual	NB01A	24.69	24.4624	62.65	7.03
Mean Annual	NB01B	24.27	15.3856	42.88	16.40
Mean Annual	NB01G	21.30	23.6707	3.04	3.34
Mean Annual	NB03B	24.94	12.9175	31.91	20.12
Mean Annual	NB1.1	21.32	23.9541	2.96	3.04
Mean Annual	NB1.3	21.29	23.6041	5.63	5.39
Mean Annual	NBSouth	24.70	24.6124	30.75	2.28
Mean Annual	Noffsite	15.00	0.0000	20.72	0.00
Mean Annual	Noffsite-S	24.50	0.0000	0.81	0.00
Mean Annual	Pond 1.1	25.31	23.6041	60.57	28.00
Mean Annual	Pond 1.2	25.41	22.8207	56.95	20.93
Mean Annual	Pond 1.3	25.41	22.7791	20.59	2.43
Mean Annual	Pond 1.4	25.42	23.0457	55.31	22.07
Mean Annual	Pond 1.5	25.31	23.6874	25.69	22.37
Mean Annual	Pond 1.6	25.31	23.7041	36.87	23.09
Mean Annual	Pond 1.7	25.42	23.7374	22.07	0.85
Mean Annual	Pond 1.8	25.31	24.0874	20.22	0.73
Mean Annual	Ramp D	24.05	15.3571	16.40	16.40
SJRWMD 25Y-24H	Borrow Pit	26.22	13.4142	112.14	29.40
SJRWMD 25Y-24H	Exist Wet Pond	26.40	13.4848	106.51	13.17
SJRWMD 25Y-24H	I-95	24.17	16.0601	27.59	27.59
SJRWMD 25Y-24H	NB01A	25.02	15.7729	132.30	31.45
SJRWMD 25Y-24H	NB01B	25.03	16.0299	140.00	30.81
SJRWMD 25Y-24H	NB01G	21.88	16.3925	14.52	14.76
SJRWMD 25Y-24H	NB03B	25.12	12.5627	73.49	63.12
SJRWMD 25Y-24H	NB1.1	21.98	16.5288	14.38	14.52

Sim	Node Name	Maximum Stage [ft]	Time to Maximum Stage [hrs]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
SJRWMD 25Y-24H	NB1.3	21.84	12.9225	24.70	24.59
SJRWMD 25Y-24H	NBSouth	24.91	15.4347	78.01	50.18
SJRWMD 25Y-24H	Noffsite	15.00	0.0000	51.97	0.00
SJRWMD 25Y-24H	Noffsite-S	24.50	0.0000	50.18	0.00
SJRWMD 25Y-24H	Pond 1.1	26.16	16.6369	121.80	55.63
SJRWMD 25Y-24H	Pond 1.2	26.50	12.8353	115.88	42.97
SJRWMD 25Y-24H	Pond 1.3	26.45	13.0232	38.64	12.50
SJRWMD 25Y-24H	Pond 1.4	26.45	12.6976	114.46	36.37
SJRWMD 25Y-24H	Pond 1.5	26.29	14.1309	48.31	22.37
SJRWMD 25Y-24H	Pond 1.6	26.35	13.6067	73.80	45.06
SJRWMD 25Y-24H	Pond 1.7	26.30	16.4770	36.37	2.89
SJRWMD 25Y-24H	Pond 1.8	26.15	16.8934	32.10	2.50
SJRWMD 25Y-24H	Ramp D	24.73	16.0057	27.59	27.59

## Alternative 1 - Treatment Volume Recovery

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	0.0000	0.00
Treatment Volume Recovery	0.2500	0.02
Treatment Volume Recovery	0.5015	0.04
Treatment Volume Recovery	0.7513	0.07
Treatment Volume Recovery	1.0004	0.10
Treatment Volume Recovery	1.2508	0.13
Treatment Volume Recovery	1.5021	0.16
Treatment Volume Recovery	1.7526	0.19
Treatment Volume Recovery	2.0024	0.22
Treatment Volume Recovery	2.2508	0.25
Treatment Volume Recovery	2.5036	0.28
Treatment Volume Recovery	2.7522	0.32
Treatment Volume Recovery	3.0040	0.35
Treatment Volume Recovery	3.2521	0.38
Treatment Volume Recovery	3.5029	0.41
Treatment Volume Recovery	3.7511	0.44
Treatment Volume Recovery	4.0008	0.47
Treatment Volume Recovery	4.2504	0.50
Treatment Volume Recovery	4.5023	0.53
Treatment Volume Recovery	4.7514	0.56
Treatment Volume Recovery	5.0001	0.59
Treatment Volume Recovery	5.2512	0.62
Treatment Volume Recovery	5.5004	0.65
Treatment Volume Recovery	5.7512	0.68
Treatment Volume Recovery	6.0009	0.71
Treatment Volume Recovery	6.2501	0.74
Treatment Volume Recovery	6.5001	0.77
Treatment Volume Recovery	6.7518	0.80
Treatment Volume Recovery	7.0013	0.83
Treatment Volume Recovery	7.2543	0.86
Treatment Volume Recovery	7.5010	0.89
Treatment Volume Recovery	7.7535	0.92
Treatment Volume Recovery	8.0015	0.95
Treatment Volume Recovery	8.2524	0.98
Treatment Volume Recovery	8.5023	1.01
Treatment Volume Recovery	8.7520	1.04
Treatment Volume Recovery	9.0009	1.07
Treatment Volume Recovery	9.2525	1.10
Treatment Volume Recovery	9.5029	1.13
Treatment Volume Recovery	9.7513	1.16
Treatment Volume Recovery	10.0011	1.19
Treatment Volume Recovery	10.2503	1.22

TV required = 6.64 ac-ft  
 1/2 TV = 3.32 ac-ft

hr 24 = 2.86 ac-ft  
 hr 30 = 3.56 ac-ft

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	10.5003	1.25
Treatment Volume Recovery	10.7507	1.28
Treatment Volume Recovery	11.0010	1.31
Treatment Volume Recovery	11.2512	1.34
Treatment Volume Recovery	11.5003	1.37
Treatment Volume Recovery	11.7516	1.40
Treatment Volume Recovery	12.0006	1.43
Treatment Volume Recovery	12.2513	1.46
Treatment Volume Recovery	12.5009	1.49
Treatment Volume Recovery	12.7515	1.52
Treatment Volume Recovery	13.0024	1.55
Treatment Volume Recovery	13.2539	1.58
Treatment Volume Recovery	13.5004	1.61
Treatment Volume Recovery	13.7502	1.64
Treatment Volume Recovery	14.0005	1.67
Treatment Volume Recovery	14.2518	1.70
Treatment Volume Recovery	14.5020	1.73
Treatment Volume Recovery	14.7547	1.76
Treatment Volume Recovery	15.0014	1.79
Treatment Volume Recovery	15.2526	1.82
Treatment Volume Recovery	15.5023	1.85
Treatment Volume Recovery	15.7500	1.88
Treatment Volume Recovery	16.0013	1.91
Treatment Volume Recovery	16.2507	1.94
Treatment Volume Recovery	16.5032	1.97
Treatment Volume Recovery	16.7506	2.00
Treatment Volume Recovery	17.0005	2.03
Treatment Volume Recovery	17.2510	2.06
Treatment Volume Recovery	17.5031	2.09
Treatment Volume Recovery	17.7511	2.12
Treatment Volume Recovery	18.0036	2.15
Treatment Volume Recovery	18.2520	2.18
Treatment Volume Recovery	18.5021	2.21
Treatment Volume Recovery	18.7506	2.24
Treatment Volume Recovery	19.0019	2.27
Treatment Volume Recovery	19.2518	2.30
Treatment Volume Recovery	19.5010	2.33
Treatment Volume Recovery	19.7518	2.36
Treatment Volume Recovery	20.0022	2.39
Treatment Volume Recovery	20.2512	2.42
Treatment Volume Recovery	20.5008	2.45
Treatment Volume Recovery	20.7518	2.48



Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	21.0004	2.51
Treatment Volume Recovery	21.2528	2.54
Treatment Volume Recovery	21.5026	2.57
Treatment Volume Recovery	21.7524	2.59
Treatment Volume Recovery	22.0026	2.62
Treatment Volume Recovery	22.2521	2.65
Treatment Volume Recovery	22.5011	2.68
Treatment Volume Recovery	22.7514	2.71
Treatment Volume Recovery	23.0001	2.74
Treatment Volume Recovery	23.2518	2.77
Treatment Volume Recovery	23.5003	2.80
Treatment Volume Recovery	23.7521	2.83
Treatment Volume Recovery	24.0013	2.86
Treatment Volume Recovery	24.2511	2.89
Treatment Volume Recovery	24.5008	2.92
Treatment Volume Recovery	24.7513	2.95
Treatment Volume Recovery	25.0031	2.98
Treatment Volume Recovery	25.2537	3.01
Treatment Volume Recovery	25.5009	3.04
Treatment Volume Recovery	25.7503	3.07
Treatment Volume Recovery	26.0015	3.09
Treatment Volume Recovery	26.2503	3.12
Treatment Volume Recovery	26.5000	3.15
Treatment Volume Recovery	26.7523	3.18
Treatment Volume Recovery	27.0005	3.21
Treatment Volume Recovery	27.2534	3.24
Treatment Volume Recovery	27.5008	3.27
Treatment Volume Recovery	27.7520	3.30
Treatment Volume Recovery	28.0008	3.33
Treatment Volume Recovery	28.2518	3.36
Treatment Volume Recovery	28.5030	3.39
Treatment Volume Recovery	28.7520	3.42
Treatment Volume Recovery	29.0038	3.45
Treatment Volume Recovery	29.2517	3.47
Treatment Volume Recovery	29.5009	3.50
Treatment Volume Recovery	29.7521	3.53
Treatment Volume Recovery	30.0021	3.56
Treatment Volume Recovery	30.2521	3.59
Treatment Volume Recovery	30.5012	3.62
Treatment Volume Recovery	30.7504	3.65
Treatment Volume Recovery	31.0009	3.68
Treatment Volume Recovery	31.2504	3.71

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	31.5051	3.74
Treatment Volume Recovery	31.7515	3.77
Treatment Volume Recovery	32.0005	3.79
Treatment Volume Recovery	32.2516	3.82
Treatment Volume Recovery	32.5011	3.85
Treatment Volume Recovery	32.7518	3.88
Treatment Volume Recovery	33.0036	3.91
Treatment Volume Recovery	33.2527	3.94
Treatment Volume Recovery	33.5023	3.97
Treatment Volume Recovery	33.7543	4.00
Treatment Volume Recovery	34.0005	4.03
Treatment Volume Recovery	34.2529	4.05
Treatment Volume Recovery	34.5037	4.08
Treatment Volume Recovery	34.7505	4.11
Treatment Volume Recovery	35.0031	4.14
Treatment Volume Recovery	35.2528	4.17
Treatment Volume Recovery	35.5030	4.20
Treatment Volume Recovery	35.7507	4.23
Treatment Volume Recovery	36.0009	4.26
Treatment Volume Recovery	36.2524	4.29
Treatment Volume Recovery	36.5019	4.31
Treatment Volume Recovery	36.7505	4.34
Treatment Volume Recovery	37.0018	4.37
Treatment Volume Recovery	37.2513	4.40
Treatment Volume Recovery	37.5015	4.43
Treatment Volume Recovery	37.7503	4.46
Treatment Volume Recovery	38.0003	4.49
Treatment Volume Recovery	38.2528	4.52
Treatment Volume Recovery	38.5043	4.54
Treatment Volume Recovery	38.7505	4.57
Treatment Volume Recovery	39.0019	4.60
Treatment Volume Recovery	39.2518	4.63
Treatment Volume Recovery	39.5000	4.66
Treatment Volume Recovery	39.7519	4.69
Treatment Volume Recovery	40.0006	4.72

## Ponds 1.2 & 1.3

1D Nodes - Aggregate

1

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	0.0000	0.00
Treatment Volume Recovery	0.2500	0.01
Treatment Volume Recovery	0.5015	0.02
Treatment Volume Recovery	0.7513	0.03
Treatment Volume Recovery	1.0004	0.04
Treatment Volume Recovery	1.2508	0.06
Treatment Volume Recovery	1.5021	0.07
Treatment Volume Recovery	1.7526	0.08
Treatment Volume Recovery	2.0024	0.09
Treatment Volume Recovery	2.2508	0.10
Treatment Volume Recovery	2.5036	0.11
Treatment Volume Recovery	2.7522	0.12
Treatment Volume Recovery	3.0040	0.14
Treatment Volume Recovery	3.2521	0.15
Treatment Volume Recovery	3.5029	0.16
Treatment Volume Recovery	3.7511	0.17
Treatment Volume Recovery	4.0008	0.18
Treatment Volume Recovery	4.2504	0.20
Treatment Volume Recovery	4.5023	0.21
Treatment Volume Recovery	4.7514	0.22
Treatment Volume Recovery	5.0001	0.23
Treatment Volume Recovery	5.2512	0.24
Treatment Volume Recovery	5.5004	0.25
Treatment Volume Recovery	5.7512	0.27
Treatment Volume Recovery	6.0009	0.28
Treatment Volume Recovery	6.2501	0.29
Treatment Volume Recovery	6.5001	0.30
Treatment Volume Recovery	6.7518	0.32
Treatment Volume Recovery	7.0013	0.33
Treatment Volume Recovery	7.2543	0.34
Treatment Volume Recovery	7.5010	0.35
Treatment Volume Recovery	7.7535	0.36
Treatment Volume Recovery	8.0015	0.38
Treatment Volume Recovery	8.2524	0.39
Treatment Volume Recovery	8.5023	0.40
Treatment Volume Recovery	8.7520	0.41
Treatment Volume Recovery	9.0009	0.42
Treatment Volume Recovery	9.2525	0.44
Treatment Volume Recovery	9.5029	0.45
Treatment Volume Recovery	9.7513	0.46
Treatment Volume Recovery	10.0011	0.47
Treatment Volume Recovery	10.2503	0.49

TV required = 2.64 ac-ft  
1/2 TV = 1.32 ac-ft

hr 24 = 1.12 ac-ft  
hr 30 = 1.35 ac-ft

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	10.5003	0.50
Treatment Volume Recovery	10.7507	0.51
Treatment Volume Recovery	11.0010	0.52
Treatment Volume Recovery	11.2512	0.53
Treatment Volume Recovery	11.5003	0.55
Treatment Volume Recovery	11.7516	0.56
Treatment Volume Recovery	12.0006	0.57
Treatment Volume Recovery	12.2513	0.58
Treatment Volume Recovery	12.5009	0.60
Treatment Volume Recovery	12.7515	0.61
Treatment Volume Recovery	13.0024	0.62
Treatment Volume Recovery	13.2539	0.63
Treatment Volume Recovery	13.5004	0.64
Treatment Volume Recovery	13.7502	0.66
Treatment Volume Recovery	14.0005	0.67
Treatment Volume Recovery	14.2518	0.68
Treatment Volume Recovery	14.5020	0.69
Treatment Volume Recovery	14.7547	0.70
Treatment Volume Recovery	15.0014	0.72
Treatment Volume Recovery	15.2526	0.73
Treatment Volume Recovery	15.5023	0.74
Treatment Volume Recovery	15.7500	0.75
Treatment Volume Recovery	16.0013	0.76
Treatment Volume Recovery	16.2507	0.77
Treatment Volume Recovery	16.5032	0.79
Treatment Volume Recovery	16.7506	0.80
Treatment Volume Recovery	17.0005	0.81
Treatment Volume Recovery	17.2510	0.82
Treatment Volume Recovery	17.5031	0.83
Treatment Volume Recovery	17.7511	0.84
Treatment Volume Recovery	18.0036	0.85
Treatment Volume Recovery	18.2520	0.87
Treatment Volume Recovery	18.5021	0.88
Treatment Volume Recovery	18.7506	0.89
Treatment Volume Recovery	19.0019	0.90
Treatment Volume Recovery	19.2518	0.91
Treatment Volume Recovery	19.5010	0.92
Treatment Volume Recovery	19.7518	0.93
Treatment Volume Recovery	20.0022	0.94
Treatment Volume Recovery	20.2512	0.96
Treatment Volume Recovery	20.5008	0.97
Treatment Volume Recovery	20.7518	0.98

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	21.0004	0.99
Treatment Volume Recovery	21.2528	1.00
Treatment Volume Recovery	21.5026	1.01
Treatment Volume Recovery	21.7524	1.02
Treatment Volume Recovery	22.0026	1.03
Treatment Volume Recovery	22.2521	1.04
Treatment Volume Recovery	22.5011	1.05
Treatment Volume Recovery	22.7514	1.06
Treatment Volume Recovery	23.0001	1.07
Treatment Volume Recovery	23.2518	1.08
Treatment Volume Recovery	23.5003	1.09
Treatment Volume Recovery	23.7521	1.11
Treatment Volume Recovery	24.0013	1.12
Treatment Volume Recovery	24.2511	1.13
Treatment Volume Recovery	24.5008	1.14
Treatment Volume Recovery	24.7513	1.15
Treatment Volume Recovery	25.0031	1.16
Treatment Volume Recovery	25.2537	1.17
Treatment Volume Recovery	25.5009	1.18
Treatment Volume Recovery	25.7503	1.19
Treatment Volume Recovery	26.0015	1.20
Treatment Volume Recovery	26.2503	1.21
Treatment Volume Recovery	26.5000	1.22
Treatment Volume Recovery	26.7523	1.23
Treatment Volume Recovery	27.0005	1.24
Treatment Volume Recovery	27.2534	1.25
Treatment Volume Recovery	27.5008	1.26
Treatment Volume Recovery	27.7520	1.27
Treatment Volume Recovery	28.0008	1.28
Treatment Volume Recovery	28.2518	1.29
Treatment Volume Recovery	28.5030	1.30
Treatment Volume Recovery	28.7520	1.31
Treatment Volume Recovery	29.0038	1.32
Treatment Volume Recovery	29.2517	1.32
Treatment Volume Recovery	29.5009	1.33
Treatment Volume Recovery	29.7521	1.34
Treatment Volume Recovery	30.0021	1.35
Treatment Volume Recovery	30.2521	1.36
Treatment Volume Recovery	30.5012	1.37
Treatment Volume Recovery	30.7504	1.38
Treatment Volume Recovery	31.0009	1.39
Treatment Volume Recovery	31.2504	1.40

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	31.5051	1.41
Treatment Volume Recovery	31.7515	1.42
Treatment Volume Recovery	32.0005	1.43
Treatment Volume Recovery	32.2516	1.44
Treatment Volume Recovery	32.5011	1.45
Treatment Volume Recovery	32.7518	1.45
Treatment Volume Recovery	33.0036	1.46
Treatment Volume Recovery	33.2527	1.47
Treatment Volume Recovery	33.5023	1.48
Treatment Volume Recovery	33.7543	1.49
Treatment Volume Recovery	34.0005	1.50
Treatment Volume Recovery	34.2529	1.51
Treatment Volume Recovery	34.5037	1.52
Treatment Volume Recovery	34.7505	1.53
Treatment Volume Recovery	35.0031	1.54
Treatment Volume Recovery	35.2528	1.54
Treatment Volume Recovery	35.5030	1.55
Treatment Volume Recovery	35.7507	1.56
Treatment Volume Recovery	36.0009	1.57
Treatment Volume Recovery	36.2524	1.58
Treatment Volume Recovery	36.5019	1.59
Treatment Volume Recovery	36.7505	1.60
Treatment Volume Recovery	37.0018	1.60
Treatment Volume Recovery	37.2513	1.61
Treatment Volume Recovery	37.5015	1.62
Treatment Volume Recovery	37.7503	1.63
Treatment Volume Recovery	38.0003	1.64
Treatment Volume Recovery	38.2528	1.65
Treatment Volume Recovery	38.5043	1.66
Treatment Volume Recovery	38.7505	1.66
Treatment Volume Recovery	39.0019	1.67
Treatment Volume Recovery	39.2518	1.68
Treatment Volume Recovery	39.5000	1.69
Treatment Volume Recovery	39.7519	1.70
Treatment Volume Recovery	40.0006	1.71



Ponds 1.4 & 1.7

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	0.0000	0.00
Treatment Volume Recovery	0.2500	0.02
Treatment Volume Recovery	0.5015	0.04
Treatment Volume Recovery	0.7513	0.06
Treatment Volume Recovery	1.0004	0.08
Treatment Volume Recovery	1.2508	0.10
Treatment Volume Recovery	1.5021	0.12
Treatment Volume Recovery	1.7526	0.14
Treatment Volume Recovery	2.0024	0.16
Treatment Volume Recovery	2.2508	0.18
Treatment Volume Recovery	2.5036	0.20
Treatment Volume Recovery	2.7522	0.22
Treatment Volume Recovery	3.0040	0.24
Treatment Volume Recovery	3.2521	0.26
Treatment Volume Recovery	3.5029	0.28
Treatment Volume Recovery	3.7511	0.29
Treatment Volume Recovery	4.0008	0.31
Treatment Volume Recovery	4.2504	0.33
Treatment Volume Recovery	4.5023	0.35
Treatment Volume Recovery	4.7514	0.36
Treatment Volume Recovery	5.0001	0.38
Treatment Volume Recovery	5.2512	0.40
Treatment Volume Recovery	5.5004	0.41
Treatment Volume Recovery	5.7512	0.43
Treatment Volume Recovery	6.0009	0.44
Treatment Volume Recovery	6.2501	0.46
Treatment Volume Recovery	6.5001	0.47
Treatment Volume Recovery	6.7518	0.49
Treatment Volume Recovery	7.0013	0.50
Treatment Volume Recovery	7.2543	0.52
Treatment Volume Recovery	7.5010	0.53
Treatment Volume Recovery	7.7535	0.55
Treatment Volume Recovery	8.0015	0.56
Treatment Volume Recovery	8.2524	0.58
Treatment Volume Recovery	8.5023	0.59
Treatment Volume Recovery	8.7520	0.60
Treatment Volume Recovery	9.0009	0.62
Treatment Volume Recovery	9.2525	0.63
Treatment Volume Recovery	9.5029	0.64
Treatment Volume Recovery	9.7513	0.66
Treatment Volume Recovery	10.0011	0.67
Treatment Volume Recovery	10.2503	0.68

TV required = 2.44 ac-ft  
 1/2 TV = 1.22 ac-ft

hr 24 = 1.16 ac-ft  
 hr 30 = 1.30 ac-ft

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	10.5003	0.69
Treatment Volume Recovery	10.7507	0.70
Treatment Volume Recovery	11.0010	0.72
Treatment Volume Recovery	11.2512	0.73
Treatment Volume Recovery	11.5003	0.74
Treatment Volume Recovery	11.7516	0.75
Treatment Volume Recovery	12.0006	0.76
Treatment Volume Recovery	12.2513	0.77
Treatment Volume Recovery	12.5009	0.78
Treatment Volume Recovery	12.7515	0.79
Treatment Volume Recovery	13.0024	0.80
Treatment Volume Recovery	13.2539	0.82
Treatment Volume Recovery	13.5004	0.83
Treatment Volume Recovery	13.7502	0.84
Treatment Volume Recovery	14.0005	0.85
Treatment Volume Recovery	14.2518	0.86
Treatment Volume Recovery	14.5020	0.87
Treatment Volume Recovery	14.7547	0.87
Treatment Volume Recovery	15.0014	0.88
Treatment Volume Recovery	15.2526	0.89
Treatment Volume Recovery	15.5023	0.90
Treatment Volume Recovery	15.7500	0.91
Treatment Volume Recovery	16.0013	0.92
Treatment Volume Recovery	16.2507	0.93
Treatment Volume Recovery	16.5032	0.94
Treatment Volume Recovery	16.7506	0.95
Treatment Volume Recovery	17.0005	0.96
Treatment Volume Recovery	17.2510	0.96
Treatment Volume Recovery	17.5031	0.97
Treatment Volume Recovery	17.7511	0.98
Treatment Volume Recovery	18.0036	0.99
Treatment Volume Recovery	18.2520	1.00
Treatment Volume Recovery	18.5021	1.00
Treatment Volume Recovery	18.7506	1.01
Treatment Volume Recovery	19.0019	1.02
Treatment Volume Recovery	19.2518	1.03
Treatment Volume Recovery	19.5010	1.04
Treatment Volume Recovery	19.7518	1.04
Treatment Volume Recovery	20.0022	1.05
Treatment Volume Recovery	20.2512	1.06
Treatment Volume Recovery	20.5008	1.06
Treatment Volume Recovery	20.7518	1.07

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	21.0004	1.08
Treatment Volume Recovery	21.2528	1.09
Treatment Volume Recovery	21.5026	1.09
Treatment Volume Recovery	21.7524	1.10
Treatment Volume Recovery	22.0026	1.11
Treatment Volume Recovery	22.2521	1.11
Treatment Volume Recovery	22.5011	1.12
Treatment Volume Recovery	22.7514	1.13
Treatment Volume Recovery	23.0001	1.13
Treatment Volume Recovery	23.2518	1.14
Treatment Volume Recovery	23.5003	1.15
Treatment Volume Recovery	23.7521	1.15
Treatment Volume Recovery	24.0013	1.16
Treatment Volume Recovery	24.2511	1.17
Treatment Volume Recovery	24.5008	1.17
Treatment Volume Recovery	24.7513	1.18
Treatment Volume Recovery	25.0031	1.19
Treatment Volume Recovery	25.2537	1.19
Treatment Volume Recovery	25.5009	1.20
Treatment Volume Recovery	25.7503	1.20
Treatment Volume Recovery	26.0015	1.21
Treatment Volume Recovery	26.2503	1.22
Treatment Volume Recovery	26.5000	1.22
Treatment Volume Recovery	26.7523	1.23
Treatment Volume Recovery	27.0005	1.23
Treatment Volume Recovery	27.2534	1.24
Treatment Volume Recovery	27.5008	1.24
Treatment Volume Recovery	27.7520	1.25
Treatment Volume Recovery	28.0008	1.26
Treatment Volume Recovery	28.2518	1.26
Treatment Volume Recovery	28.5030	1.27
Treatment Volume Recovery	28.7520	1.27
Treatment Volume Recovery	29.0038	1.28
Treatment Volume Recovery	29.2517	1.28
Treatment Volume Recovery	29.5009	1.29
Treatment Volume Recovery	29.7521	1.30
Treatment Volume Recovery	30.0021	1.30
Treatment Volume Recovery	30.2521	1.31
Treatment Volume Recovery	30.5012	1.31
Treatment Volume Recovery	30.7504	1.32
Treatment Volume Recovery	31.0009	1.32
Treatment Volume Recovery	31.2504	1.33

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	31.5051	1.33
Treatment Volume Recovery	31.7515	1.34
Treatment Volume Recovery	32.0005	1.34
Treatment Volume Recovery	32.2516	1.35
Treatment Volume Recovery	32.5011	1.35
Treatment Volume Recovery	32.7518	1.36
Treatment Volume Recovery	33.0036	1.37
Treatment Volume Recovery	33.2527	1.37
Treatment Volume Recovery	33.5023	1.38
Treatment Volume Recovery	33.7543	1.38
Treatment Volume Recovery	34.0005	1.39
Treatment Volume Recovery	34.2529	1.39
Treatment Volume Recovery	34.5037	1.40
Treatment Volume Recovery	34.7505	1.40
Treatment Volume Recovery	35.0031	1.41
Treatment Volume Recovery	35.2528	1.41
Treatment Volume Recovery	35.5030	1.42
Treatment Volume Recovery	35.7507	1.42
Treatment Volume Recovery	36.0009	1.43
Treatment Volume Recovery	36.2524	1.43
Treatment Volume Recovery	36.5019	1.44
Treatment Volume Recovery	36.7505	1.44
Treatment Volume Recovery	37.0018	1.45
Treatment Volume Recovery	37.2513	1.45
Treatment Volume Recovery	37.5015	1.46
Treatment Volume Recovery	37.7503	1.46
Treatment Volume Recovery	38.0003	1.46
Treatment Volume Recovery	38.2528	1.47
Treatment Volume Recovery	38.5043	1.47
Treatment Volume Recovery	38.7505	1.48
Treatment Volume Recovery	39.0019	1.48
Treatment Volume Recovery	39.2518	1.49
Treatment Volume Recovery	39.5000	1.49
Treatment Volume Recovery	39.7519	1.50
Treatment Volume Recovery	40.0006	1.50

## Alternative 2 - Calculations

**PIONEER TRAIL ALTERNATIVE 2  
PRE-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM:**

**Existing Pond**

Existing Pond			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA	PERVIOUS AREA (lawn/sod, fair cond.)	CURVE NUMBER
Pioneer Trail 1, 2, 3	14+00.00	44+00.00	13.31	13.31	2.20	0.00	11.11	0.00	0.00	0.00	0.00	98	100	84	86
Existing Pond			5.34	5.34	0.00	2.15	3.19	0.00	0.00	0.00	0.00	98	100	84	90
<b>SYSTEM TOTALS:</b>			<b>18.65</b>	<b>18.65</b>	<b>2.20</b>	<b>2.15</b>	<b>14.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>87.5</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



**PIONEER TRAIL ALTERNATIVE 2  
POST-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM:**

**Existing Pond**

Existing Pond			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Pioneer Trail 1, 2, 3	14+00.00	44+00.00	13.31	13.31	5.94	0.00	7.37	0.00	0.00	0.00	0.00	98	100	84	90
Existing Pond			5.34	5.34	0.00	3.62	1.72	0.00	0.00	0.00	0.00	98	100	84	93
<b>SYSTEM TOTALS:</b>			<b>18.65</b>	<b>18.65</b>	<b>5.94</b>	<b>3.62</b>	<b>9.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>91.6</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**POLLUTION ABATEMENT VOLUME**

DATE

MADE BY:	DHR	7-Aug-20
CHK BY:		

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **EXISTING POND**

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 18.65 \text{ AC.} \quad = \quad \boxed{1.55} \text{ AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 5.94 \text{ AC.} \quad = \quad \boxed{1.24} \text{ AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **EXISTING POND**

DATE	
MADE BY:	DHR 7-Aug-20
CHCK BY:	

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN)-10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 87  
S = 1.43  
Q<sub>PRE</sub> = 7.98 IN  
V<sub>PRE</sub> = 12.40 AF

### POST-DEVELOPMENT

CN = 92  
S = 0.92  
Q<sub>POST</sub> = 8.48 IN  
V<sub>POST</sub> = 13.18 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$13.18 - 12.40 = \text{0.78 AF}$$

**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **EXISTING POND**

DATE  
 MADE BY: DHR 18-Aug-20  
 CHCK BY:

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.37	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.36	Ft. (NAVD 88), per permit
29.00	Ft. (NAVD 88)

STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	5.34	17.44
Berm (Front)	27.50	4.39	12.58
Design High Water	26.45	4.13	8.28
Weir	24.94	3.76	2.33
Control Elevation	24.36	3.62	0.00
Grade Break	22.50	3.18	6.32
Pond Bottom	16.50	2.48	23.97

<-- Per ICPR, 25yr/24hr storm

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **EXISTING POND**

	DATE	
MADE BY:	DHR	7-Aug-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

18.65	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 4.96 AF < 23.97 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{23.97}{3.62} =$  6.62 < 8.00 FT. **O.K.**

PIONEER TRAIL ALTERNATIVE 2  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM:

Pond 2.1 and 2.2

Pond 2.1 and 2.2			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp F	601+34.95	612+64.40	2.52	2.52	0.00	0.00	2.52	0.00	0.00	0.00	0.00	98	100	84	84
Ramp E	505+76.14	518+00.00	10.49	10.49	0.05	0.00	10.44	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 3	44+00.00	47+00.00	0.49	0.49	0.00	0.00	0.49	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 4	47+00.00	48+38.32	0.22	0.22	0.00	0.00	0.22	0.00	0.00	0.00	0.00	98	100	84	84
Bridge Pioneer Trail	48+38.32	50+07.70	0.25	0.25	0.00	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	84
I-95	4676+71.17	4710+00.00	2.40	2.40	1.49	0.00	0.91	0.00	0.00	0.00	0.00	98	100	84	93
Pond 2.1			5.81	5.81	0.00	0.00	5.81	0.00	0.00	0.00	0.00	98	100	84	84
Pond 2.2			2.23	2.23	0.00	0.00	2.23	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>24.41</b>	<b>24.41</b>	<b>1.54</b>	<b>0.00</b>	<b>22.87</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>84.9</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



**PIONEER TRAIL ALTERNATIVE 2**  
**Post-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM: Pond 2.1 and 2.2**

Pond 2.1 and 2.2			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp F	601+34.95	612+64.40	2.52	2.52	1.35	0.00	1.17	0.00	0.00	0.00	0.00	98	100	84	92
Ramp E	505+76.14	518+00.00	10.49	10.49	2.55	0.00	7.94	0.00	0.00	0.00	0.00	98	100	84	87
Pioneer Trail 3	44+00.00	47+00.00	0.49	0.49	0.34	0.00	0.15	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 4	47+00.00	48+38.32	0.22	0.22	0.16	0.00	0.06	0.00	0.00	0.00	0.00	98	100	84	94
Bridge Pioneer Trail	48+38.32	50+07.70	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
I-95	4676+71.17	4710+00.00	2.40	2.40	2.01	0.00	0.39	0.00	0.00	0.00	0.00	98	100	84	96
Pond 2.1			5.81	5.81	0.00	4.50	1.31	0.00	0.00	0.00	0.00	98	100	84	96
Pond 2.2			2.23	2.23	0.00	1.46	0.77	0.00	0.00	0.00	0.00	98	100	84	94
<b>SYSTEM TOTALS:</b>			<b>24.41</b>	<b>24.41</b>	<b>6.66</b>	<b>5.96</b>	<b>11.79</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>91.7</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**POLLUTION ABATEMENT VOLUME**

DATE

MADE BY:	DHR	6-Aug-20
CHK BY:		

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 2.1 and 2.2**

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad x \quad 24.41 \text{ AC.} \quad = \quad \text{2.03 AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad x \quad 6.66 \text{ AC.} \quad = \quad \text{1.39 AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

## ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 2.1 and 2.2**

DATE	
MADE BY:	DHR 6-Aug-20
CHCK BY:	

### REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN)-10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 84.9  
S = 1.78  
Q<sub>PRE</sub> = 7.65 IN  
V<sub>PRE</sub> = 15.57 AF

### POST-DEVELOPMENT

CN = 91.7  
S = 0.90  
Q<sub>POST</sub> = 8.50 IN  
V<sub>POST</sub> = 17.28 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$17.28 - 15.57 = \text{1.72 AF}$$

**POND STAGE / STORAGE**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 2.1 and 2.2**

MADE BY:	DHR	18-Aug-20
CHK BY:		

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.74	Ft. (NAVD 88)
23.73	Ft. (NAVD 88)
23.74	Ft. (NAVD 88)
30.39	Ft. (NAVD 88)

POND 2.1			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	5.81	23.59
Berm (Front)	27.50	5.14	18.12
Design High Water	26.11	4.90	11.14
Control Elevation	23.74	4.50	0.00
Grade Break	22.50	4.30	5.45
Pond Bottom	16.50	4.01	30.81

<-- Per ICPR, 25yr/24hr storm

POND 2.2			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	2.23	8.21
Berm (Front)	27.50	1.83	6.18
Design High Water	25.90	1.67	3.38
Control Elevation	23.74	1.46	0.00
Grade Break	22.50	1.34	1.74
Pond Bottom	16.50	1.08	9.19

<-- Per ICPR, 25yr/24hr storm

POND 2.1 + POND 2.2			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	8.04	31.80
Berm (Front)	27.50	6.97	24.30
Weir	24.21	6.08	3.05
Control Elevation	23.74	5.96	0.00
Grade Break	22.50	5.64	7.19
Pond Bottom	16.50	5.09	40.00

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 2.1 and 2.2**

	DATE	
MADE BY:	DHR	6-Aug-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

24.41	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 6.49 AF < 40.00 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{40.00}{5.96} =$  6.71 < 8.00 FT. **O.K.**

PIONEER TRAIL ALTERNATIVE 2  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 2.3 and 2.4

Pond 2.3 and 2.4			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.25	0.25	0.08	0.00	0.17	0.00	0.00	0.00	0.00	98	100	84	88
Pioneer Trail 4	51+75.66	56+40.00	0.96	0.96	0.00	0.00	0.96	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 5	56+40.00	76+79.94	5.80	5.80	0.34	0.00	5.46	0.00	0.00	0.00	0.00	98	100	84	85
I-95	4676+85.14	4708+74.50	3.28	3.28	0.44	0.00	2.84	0.00	0.00	0.00	0.00	98	100	84	86
Ramp G	700+00.00	725+18.81	3.87	3.87	0.00	0.00	3.87	0.00	0.00	0.00	0.00	98	100	86	86
Pond 2.3			3.47	3.47	0.00	0.00	3.47	0.00	0.00	0.00	0.00	98	100	84	84
Pond 2.4			2.32	2.32	0.00	0.00	2.32	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>21.09</b>	<b>21.09</b>	<b>1.40</b>	<b>0.00</b>	<b>19.69</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>84.9</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



PIONEER TRAIL ALTERNATIVE 2  
Post-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 2.3 and 2.4

Pond 2.3 and 2.4			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pioneer Trail 4	51+75.66	56+40.00	0.96	0.96	0.71	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 5	56+40.00	76+79.94	5.80	5.80	2.09	0.00	3.71	0.00	0.00	0.00	0.00	98	100	84	89
I-95	4676+85.14	4708+74.50	3.28	3.28	0.54	0.00	2.74	0.00	0.00	0.00	0.00	98	100	84	86
Ramp G	700+00.00	725+18.81	3.87	3.87	1.78	0.00	2.09	0.00	0.00	0.00	0.00	98	100	86	92
Pond 2.3			3.47	3.47	0.00	2.30	1.17	0.00	0.00	0.00	0.00	98	100	84	95
Pond 2.4			2.32	2.32	0.00	1.46	0.86	0.00	0.00	0.00	0.00	98	100	84	94
<b>SYSTEM TOTALS:</b>			<b>21.09</b>	<b>21.09</b>	<b>5.91</b>	<b>3.76</b>	<b>11.41</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>90.8</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**POLLUTION ABATEMENT VOLUME**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 2.3 and 2.4**

MADE BY:	DHR	6-Aug-20
CHCK BY:		

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1)                      COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 21.09 \text{ AC.} \quad = \quad \boxed{1.76} \text{ AF}$$

2)                      COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 5.91 \text{ AC.} \quad = \quad \boxed{1.23} \text{ AF}$$

CONTROLLING CRITERIA:                     

**REQUIRED TREATMENT VOLUME:**                       AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =                       AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 2.3 and 2.4**

DATE	
MADE BY:	DHR 6-Aug-20
CHCK BY:	

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN)-10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 84.9  
S = 1.77  
Q<sub>PRE</sub> = 7.66 IN  
V<sub>PRE</sub> = 13.46 AF

### POST-DEVELOPMENT

CN = 91  
S = 1.02  
Q<sub>POST</sub> = 8.38 IN  
V<sub>POST</sub> = 14.73 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$14.73 - 13.46 = \text{1.27 AF}$$

**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 2.3 and 2.4**

DATE  
 MADE BY: DHR 18-Aug-20  
 CHCK BY:

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.56	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
29.00	Ft. (NAVD 88)

POND 2.3			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	3.47	11.39
Berm (Front)	27.50	2.83	8.24
Design High Water	26.36	2.64	5.12
Control Elevation	24.29	2.30	0.00
Grade Break	22.50	2.02	3.87
Pond Bottom	16.50	1.57	15.08

<-- Per ICPR, 25yr/24hr storm

POND 2.4			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	2.32	7.39
Berm (Front)	27.50	1.84	5.30
Design High Water	26.32	1.70	3.21
Control Elevation	24.29	1.46	0.00
Grade Break	22.50	1.26	2.43
Pond Bottom	16.50	0.93	9.32

<-- Per ICPR, 25yr/24hr storm

POND 2.3 + POND 2.4			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	5.79	18.77
Berm (Front)	27.50	4.67	13.54
Weir	24.91	3.94	2.64
Control Elevation	24.29	3.76	0.00
Grade Break	22.50	3.28	6.30
Pond Bottom	16.50	2.50	24.40

REQUIRED TREATMENT VOLUME: 2.64 AF

REQUIRED TREATMENT VOLUME ELEVATION: 24.91 Ft.

PROPOSED WEIR ELEVATION: 24.91 Ft.

PROVIDED TREATMENT VOLUME: 2.64 AF

REQUIRED 25Y-24H ATTENUATION VOLUME 1.27 AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 2.3 and 2.4**

	DATE	
MADE BY:	DHR	6-Aug-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

10.00	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 2.66 AF < 15.08 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{15.08}{2.30} =$  6.54 < 8.00 FT. **O.K.**

PIONEER TRAIL ALTERNATIVE 2  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 2.5 and 2.8

Pond 2.5 and 2.8			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.26	0.26	0.14	0.00	0.12	0.00	0.00	0.00	0.00	98	100	84	92
Pioneer Trail 4	51+75.66	56+40.00	0.94	0.94	0.69	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 5	56+40.00	76+79.94	0.31	0.31	0.07	0.00	0.24	0.00	0.00	0.00	0.00	98	100	84	87
I-95	4676+85.14	4708+74.50	3.82	3.82	2.28	0.00	1.54	0.00	0.00	0.00	0.00	98	100	84	92
Ramp H	100+00.00	121+00.00	7.05	7.05	0.00	0.00	7.05	0.00	0.00	0.00	0.00	98	100	86	86
Pond 2.5			3.44	3.44	0.00	0.00	3.44	0.00	0.00	0.00	0.00	98	100	84	84
Pond 2.8			5.01	5.01	0.00	0.00	5.01	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>21.96</b>	<b>21.96</b>	<b>3.72</b>	<b>0.00</b>	<b>18.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>86.4</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



PIONEER TRAIL ALTERNATIVE 2  
Post-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 2.5 and 2.8

Pond 2.5 and 2.8			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pioneer Trail 4	51+75.66	56+40.00	0.94	0.94	0.69	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 5	56+40.00	76+79.94	0.31	0.31	0.09	0.00	0.22	0.00	0.00	0.00	0.00	98	100	84	88
I-95	4676+85.14	4708+74.50	3.82	3.82	2.86	0.00	0.96	0.00	0.00	0.00	0.00	98	100	84	94
Ramp H	808+92.50	822+27.25	7.05	7.05	2.23	0.00	4.82	0.00	0.00	0.00	0.00	98	100	86	90
Pond 2.5			3.44	3.44	0.00	2.31	1.13	0.00	0.00	0.00	0.00	98	100	84	95
Pond 2.8			5.01	5.01	0.00	3.83	1.18	0.00	0.00	0.00	0.00	98	100	84	96
<b>SYSTEM TOTALS:</b>			<b>21.96</b>	<b>21.96</b>	<b>6.67</b>	<b>6.14</b>	<b>9.15</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>92.7</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**POLLUTION ABATEMENT VOLUME**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 2.5 and 2.8**

MADE BY:	DHR	11-Aug-20
CHCK BY:		

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 21.96 \text{ AC.} \quad = \quad \boxed{1.83} \text{ AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 6.67 \text{ AC.} \quad = \quad \boxed{1.39} \text{ AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 2.5 and 2.8**

DATE	
MADE BY:	DHR 11-Aug-20
CHCK BY:	

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN) - 10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 86.4  
S = 1.58  
Q<sub>PRE</sub> = 7.84 IN  
V<sub>PRE</sub> = 14.34 AF

### POST-DEVELOPMENT

CN = 93  
S = 0.78  
Q<sub>POST</sub> = 8.62 IN  
V<sub>POST</sub> = 15.77 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$15.77 - 14.34 = \text{1.43 AF}$$

**POND STAGE / STORAGE**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 2.5 and 2.8**

MADE BY:	DHR	18-Aug-20
CHCK BY:		

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.71	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
29.19	Ft. (NAVD 88)

POND 2.5			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	3.44	11.35
Berm (Front)	27.50	2.82	8.23
Design High Water	26.40	2.64	5.22
Control Elevation	24.29	2.31	0.00
Grade Break	22.50	2.03	3.89
Pond Bottom	16.50	1.59	15.19

<-- Per ICPR, 25yr/24hr storm

POND 2.8			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	5.01	17.83
Berm (Front)	27.50	4.36	13.14
Design High Water	26.40	4.18	8.45
Control Elevation	24.29	3.83	0.00
Grade Break	22.50	3.55	6.61
Pond Bottom	16.50	3.08	26.91

<-- Per ICPR, 25yr/24hr storm

POND 2.5 + POND 2.8			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	8.45	29.18
Berm (Front)	27.50	7.18	21.37
Weir	24.91	6.34	4.13
Control Elevation	24.29	6.14	0.00
Grade Break	22.50	5.58	10.49
Pond Bottom	16.50	4.67	42.10

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 2.5 and 2.8**

	DATE	
MADE BY:	DHR	11-Aug-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

10.00	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 2.66 AF < 15.19 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{15.19}{2.31} =$  6.58 < 8.00 FT. **O.K.**

PIONEER TRAIL ALTERNATIVE 2  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 2.6 and 2.7

Pond 2.6 and 2.7			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp I	900+00.00	917+82.40	4.13	4.13	0.00	0.00	4.13	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 3	44+00.00	47+28.84	0.48	0.48	0.32	0.00	0.16	0.00	0.00	0.00	0.00	98	100	84	93
Pioneer Trail 4	47+28.84	48+38.32	0.22	0.22	0.13	0.00	0.09	0.00	0.00	0.00	0.00	98	100	84	92
Bridge Pioneer Trail	48+38.32	50+07.70	0.26	0.26	0.14	0.00	0.12	0.00	0.00	0.00	0.00	98	100	84	92
I-95	4711+00.00	4740+00.00	2.86	2.86	2.49	0.00	0.37	0.00	0.00	0.00	0.00	98	100	84	96
Pond 2.6			2.90	2.90	0.00	0.00	2.90	0.00	0.00	0.00	0.00	98	100	84	84
Pond 2.7			1.24	1.24	0.00	0.00	1.24	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>12.09</b>	<b>12.09</b>	<b>3.08</b>	<b>0.00</b>	<b>9.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>87.6</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



PIONEER TRAIL ALTERNATIVE 2  
Post-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 2.6 and 2.7

Pond 2.6 and 2.7			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp I	900+00.00	917+82.40	4.13	4.13	1.17	0.00	2.96	0.00	0.00	0.00	0.00	98	100	84	88
Pioneer Trail 3	44+00.00	47+28.84	0.48	0.48	0.43	0.00	0.05	0.00	0.00	0.00	0.00	98	100	84	97
Pioneer Trail 4	47+28.84	48+38.32	0.22	0.22	0.21	0.00	0.01	0.00	0.00	0.00	0.00	98	100	84	97
Bridge Pioneer Trail	48+38.32	50+07.70	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
I-95	4711+00.00	4740+00.00	2.86	2.86	2.86	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pond 2.6			2.90	2.90	0.00	1.94	0.95	0.00	0.00	0.00	0.00	98	100	84	93
Pond 2.7			1.24	1.24	0.00	0.74	0.51	0.00	0.00	0.00	0.00	98	100	84	92
<b>SYSTEM TOTALS:</b>			<b>12.09</b>	<b>12.09</b>	<b>4.93</b>	<b>2.68</b>	<b>4.48</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>93.3</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**POLLUTION ABATEMENT VOLUME**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 2.6 and 2.7**

MADE BY:	DHR	11-Aug-20
CHCK BY:		

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 12.09 \text{ AC.} \quad = \quad \text{1.01 AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 4.93 \text{ AC.} \quad = \quad \text{1.03 AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 2.6 and 2.7**

DATE	
MADE BY:	DHR 11-Aug-20
CHCK BY:	

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN) - 10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 87.6  
S = 1.42  
Q<sub>PRE</sub> = 7.99 IN  
V<sub>PRE</sub> = 8.05 AF

### POST-DEVELOPMENT

CN = 93.3  
S = 0.72  
Q<sub>POST</sub> = 8.68 IN  
V<sub>POST</sub> = 8.75 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$8.75 - 8.05 = \text{0.70 AF}$$

**POND STAGE / STORAGE**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 2.6 and 2.7**

MADE BY:	DHR	18-Aug-20
CHCK BY:		

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

24.16	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
29.19	Ft. (NAVD 88)

POND 2.6			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	2.90	9.55
Berm (Front)	27.50	2.37	6.92
Design High Water	26.31	2.21	4.19
Control Elevation	24.29	1.94	0.00
Grade Break	22.50	1.71	3.27
Pond Bottom	16.50	1.35	12.82

<-- Per ICPR, 25yr/24hr storm

POND 2.7			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	1.24	3.82
Berm (Front)	27.50	0.96	2.72
Design High Water	26.37	0.88	1.68
Control Elevation	24.29	0.74	0.00
Grade Break	22.50	0.62	1.22
Pond Bottom	16.50	0.45	4.63

<-- Per ICPR, 25yr/24hr storm

POND 2.6 + POND 2.7			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	4.14	13.37
Berm (Front)	27.50	3.32	9.63
Weir	24.94	2.69	1.95
Control Elevation	24.29	2.68	0.00
Grade Break	22.50	2.34	4.49
Pond Bottom	16.50	1.80	17.45

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 2.6 and 2.7**

	DATE	
MADE BY:	DHR	11-Aug-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

10.00	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

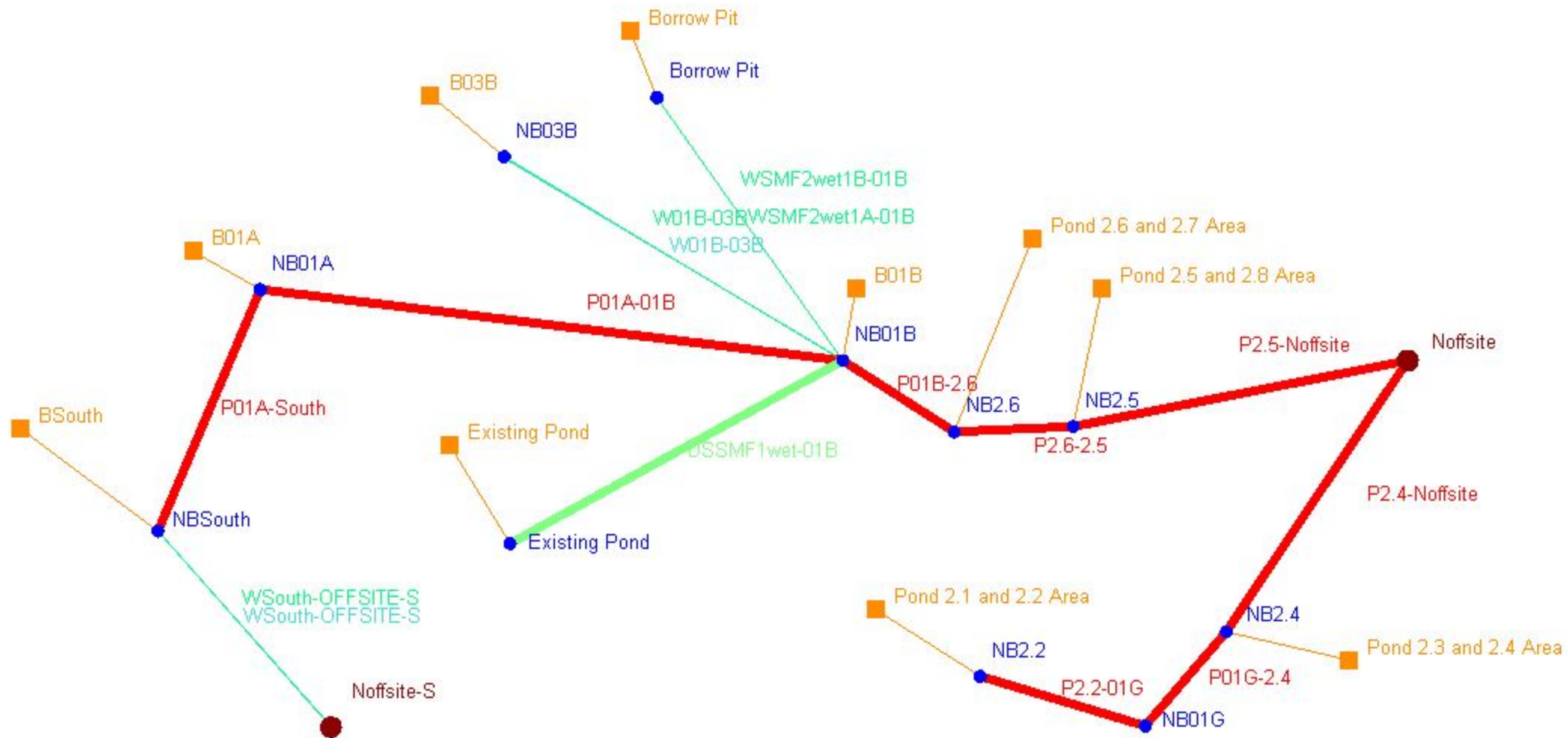
PPV = DA C R RT / WS CF = 2.66 AF < 17.45 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{17.45}{2.68} =$  6.52 < 8.00 FT. **O.K.**

## Alternative 2 - ICPR Pre-Development





## Manual Basin: B01A

Scenario: Scenario1  
 Node: NB01A  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 53.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
56.6000	B01A	B01A			

Comment:

## Manual Basin: B01B

Scenario: Scenario1  
 Node: NB01B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 23.5000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
17.1000	B01B	B01B			

Comment:

## Manual Basin: B03B

Scenario: Scenario1  
 Node: NB03B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 29.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
24.0000	B03B	B03B			

Comment:

Manual Basin: BSouth

Scenario: Scenario1  
 Node: NBSouth  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 59.7000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
40.3000	BSouth	BSouth			

Comment:

Manual Basin: Borrow Pit

Scenario: Scenario1  
 Node: Borrow Pit  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 21.0800 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
27.6000	Borrow Pit	Borrow Pit			

Comment:

Manual Basin: Existing Pond

Scenario: Scenario1  
 Node: Existing Pond  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 12.6600 min  
 Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
18.6500	Existing Pond	Existing Pond			

Comment:

#### Manual Basin: Pond 2.1 and 2.2 Area

Scenario: Scenario1  
 Node: NB2.2  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
24.4100	Pond 2.1 and 2.2	Pond 2.1 and 2.2			

Comment:

#### Manual Basin: Pond 2.3 and 2.4 Area

Scenario: Scenario1  
 Node: NB2.4  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
21.0900	Pond 2.3 and 2.4	Pond 2.3 and 2.4			

Comment:

#### Manual Basin: Pond 2.5 and 2.8 Area

Scenario: Scenario1  
Node: NB2.5  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
21.9600	Pond 2.5 and 2.8	Pond 2.5 and 2.8			

Comment:

#### Manual Basin: Pond 2.6 and 2.7 Area

Scenario: Scenario1  
Node: NB2.6  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
12.0900	Pond 2.6 and 2.7	Pond 2.6 and 2.7			

Comment:

#### Curve Number: CN [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
B01A	B01A	89.0
B01B	B01B	87.0
B01G	B01G	84.0
B03B	B03B	83.0
BSouth	BSouth	82.0
Borrow Pit	Borrow Pit	93.0
Existing Pond	Existing Pond	87.5
Pond 2.1 and 2.2	Pond 2.1 and 2.2	84.9
Pond 2.3 and 2.4	Pond 2.3 and 2.4	84.9
Pond 2.5 and 2.8	Pond 2.5 and 2.8	86.4
Pond 2.6 and 2.7	Pond 2.6 and 2.7	87.6

## Node: Borrow Pit

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.86 ft  
 Warning Stage: 27.86 ft

Stage [ft]	Area [ac]	Area [ft2]
1.86	5.5100	240016
24.86	8.2400	358934
27.86	8.9500	389862

Comment:

## Node: Existing Pond

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.35 ft  
 Warning Stage: 27.86 ft

Stage [ft]	Area [ac]	Area [ft2]
18.60	0.8600	37462
24.36	2.1500	93654
27.36	2.8800	125453

Comment:

## Node: NB01A

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 32.06 ft

Stage [ft]	Area [ac]	Area [ft2]
22.33	0.0010	44
23.33	0.1000	4356
24.33	15.5000	675180
25.33	31.9000	1389564
26.33	42.8000	1864368
27.33	52.1000	2269476
28.33	58.3000	2539548
29.33	60.8000	2648448
30.33	60.9000	2652804

Stage [ft]	Area [ac]	Area [ft2]
31.33	61.0000	2657160
32.06	61.0000	2657160

Comment:

Node: NB01B

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.21 ft  
Warning Stage: 51.46 ft

Stage [ft]	Area [ac]	Area [ft2]
22.21	0.0010	44
22.61	0.0010	44
23.61	0.7000	30492
24.61	17.7000	771012
25.61	27.2000	1184832
27.61	37.8000	1646568
28.61	39.1000	1703196
29.61	40.1000	1746756
30.61	40.7000	1772892
31.61	40.8000	1777248
32.61	40.8000	1777248
33.61	40.8000	1777248
34.61	40.9000	1781604
35.61	40.9000	1781604
36.61	40.9000	1781604
37.61	41.0000	1785960
38.61	41.0000	1785960
39.61	41.0000	1785960
40.61	41.1000	1790316
41.61	41.1000	1790316
42.61	41.1000	1790316
43.61	41.2000	1794672
44.61	41.2000	1794672
45.61	41.2000	1794672
46.61	41.3000	1799028
47.61	41.3000	1799028
48.61	41.3000	1799028
49.61	41.4000	1803384
50.61	41.4000	1803384
51.51	41.4000	1803384
26.61	34.2000	1489752

Comment:



Node: NB01G

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.66 ft  
 Warning Stage: 29.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.66	0.0000	0
23.50	0.0000	0
24.00	0.0110	479
24.50	0.2020	8799
25.00	0.5920	25788
25.50	2.4520	106809
26.00	3.4590	150674
26.50	3.7560	163611
27.00	3.9920	173892
27.50	4.3170	188049
28.00	4.5720	199156
28.50	4.8340	210569
29.00	5.0980	222069
29.50	5.3660	233743
30.00	5.6360	245504

Comment:

Node: NB03B

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.06 ft  
 Warning Stage: 32.01 ft

Stage [ft]	Area [ac]	Area [ft2]
23.19	0.0010	44
24.19	0.3000	13068
25.19	6.5000	283140
26.19	11.5000	500940
27.19	13.5000	588060
28.19	14.1000	614196
29.19	14.4000	627264
30.19	14.6000	635976
31.19	14.6000	635976
32.01	14.6000	635976

Comment:

## Node: NB2.2

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.75 ft  
 Warning Stage: 25.15 ft

Stage [ft]	Area [ac]	Area [ft2]
20.75	0.0000	0
25.15	0.0000	0

Comment:

## Node: NB2.4

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.13 ft  
 Warning Stage: 25.86 ft

Stage [ft]	Area [ac]	Area [ft2]
20.13	0.0000	0
25.86	0.0000	0

Comment:

## Node: NB2.5

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.00 ft  
 Warning Stage: 24.94 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
24.94	0.0000	0

Comment:

## Node: NB2.6

Scenario: Scenario1  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 22.09 ft  
 Warning Stage: 25.09 ft

Stage [ft]	Area [ac]	Area [ft2]
22.09	0.0000	0
25.09	0.0000	0

Comment:

Node: NBSouth

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 33.67 ft

Stage [ft]	Area [ac]	Area [ft2]
22.39	0.0010	44
22.89	0.0143	623
23.39	0.0964	4199
23.89	1.2391	53975
24.39	12.3783	539199
24.89	22.2377	968674
25.39	27.0965	1180324
25.89	31.2305	1360401
26.39	33.3190	1451376
26.89	34.2642	1492549
27.39	34.5225	1503800
27.89	34.6654	1510025
28.39	34.7297	1512826
28.89	34.7584	1514076
29.39	34.7687	1514525
29.89	34.7740	1514755
33.67	34.7740	1514755

Comment:

Node: Noffsite

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.00 ft  
 Warning Stage: 15.00 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	15.00
0	0	0	50.0000	15.00

Comment:

**Node: Noffsite-S**

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.50 ft  
 Warning Stage: 24.50 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	24.50
0	0	0	50.0000	24.50

Comment:

Drop Structure Link: DSSMF1wet-01B		Upstream Pipe	Downstream Pipe
Scenario:	Scenario1	Invert: 22.50 ft	Invert: 22.30 ft
From Node:	Existing Pond	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB01B	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	50.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft		
Energy Switch:	Energy		

Pipe Comment: 19"x30" HORIZONTAL ELLIPSE

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
	Bottom Clip
	Default: 0.00 ft
	Op Table:
	Ref Node:

Weir Type: Sharp Crested Vertical  
 Geometry Type: Rectangular  
 Invert: 24.35 ft  
 Control Elevation: 24.35 ft  
 Max Depth: 0.41 ft  
 Max Width: 0.22 ft  
 Fillet: 0.00 ft

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component	
Weir:	2
Weir Count:	2
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Horizontal
Geometry Type:	Rectangular
Invert:	24.76 ft
Control Elevation:	24.76 ft
Max Depth:	2.60 ft
Max Width:	10.00 ft
Fillet:	0.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Pipe Link: P01A-01B	Upstream	Downstream
Scenario: Scenario1	Invert: 24.36 ft	Invert: 24.16 ft
From Node: NB01A	Manning's N: 0.0130	Manning's N: 0.0130
To Node: NB01B	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 5	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 130.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01A-South		Upstream	Downstream
Scenario:	Scenario1	Invert: 23.08 ft	Invert: 22.77 ft
From Node:	NBSouth	Manning's N: 0.0130	Manning's N: 0.1300
To Node:	NB01A	Geometry: Rectangular	Geometry: Rectangular
Link Count:	1	Max Depth: 2.25 ft	Max Depth: 2.25 ft
Flow Direction:	Both	Max Width: 8.75 ft	Max Width: 8.75 ft
Damping:	0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length:	67.00 ft	Bottom Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.20	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft	Top Clip	
Energy Switch:	Energy	Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01B-2.6		Upstream	Downstream
Scenario:	Scenario1	Invert: 22.20 ft	Invert: 22.10 ft
From Node:	NB01B	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB2.6	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	105.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01G-2.4		Upstream	Downstream
Scenario:	Scenario1	Invert: 20.66 ft	Invert: 20.13 ft
From Node:	NB01G	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB2.4	Geometry: Rectangular	Geometry: Rectangular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping:	0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length:	180.00 ft	Bottom Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft

Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P2.2-01G	Upstream	Downstream
Scenario: Scenario1	Invert: 20.75 ft	Invert: 20.66 ft
From Node: NB2.2	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NB01G	Geometry: Rectangular	Geometry: Rectangular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping: 0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 180.00 ft	Bottom Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P2.4-Noffsite	Upstream	Downstream
Scenario: Scenario1	Invert: 20.98 ft	Invert: 20.88 ft
From Node: NB2.4	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Noffsite	Geometry: Rectangular	Geometry: Rectangular
Link Count: 1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping: 0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 88.00 ft	Bottom Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:



Manning's N: 0.0000

Manning's N: 0.0000

Comment:

Pipe Link: P2.5-Noffsite	Upstream	Downstream
Scenario: Scenario1	Invert: 21.94 ft	Invert: 20.84 ft
From Node: NB2.5	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Noffsite	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 540.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P2.6-2.5	Upstream	Downstream
Scenario: Scenario1	Invert: 22.09 ft	Invert: 21.94 ft
From Node: NB2.6	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NB2.5	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 275.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Weir Link: W01B-03B	Bottom Clip
Scenario: Scenario1	Default: 0.00 ft
From Node: NB01B	Op Table:
To Node: NB03B	Ref Node:
Link Count: 1	

Flow Direction:	Both	
Damping:	0.0000 ft	Top Clip
Weir Type:	Sharp Crested Vertical	Default: 0.00 ft
Geometry Type:	Irregular	Op Table:
Invert:	24.46 ft	Ref Node:
Control Elevation:	24.46 ft	Discharge Coefficients
Cross Section:	W01B-03B	Weir Default: 2.800
		Weir Table:
		Orifice Default: 0.600
		Orifice Table:

Comment:

Weir Link: WSMF2wet1A-01B

Scenario:	Scenario1	Bottom Clip
From Node:	Borrow Pit	Default: 0.00 ft
To Node:	NB01B	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Sharp Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	24.86 ft	Discharge Coefficients
Control Elevation:	24.86 ft	Weir Default: 3.200
Max Depth:	0.60 ft	Weir Table:
Max Width:	0.60 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: WSMF2wet1B-01B

Scenario:	Scenario1	Bottom Clip
From Node:	Borrow Pit	Default: 0.00 ft
To Node:	NB01B	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Sharp Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	25.37 ft	Discharge Coefficients
Control Elevation:	25.37 ft	Weir Default: 3.200
Max Depth:	900.00 ft	Weir Table:
Max Width:	11.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

<b>Weir Link: WSouth-OFFSITE-S</b>	
Scenario: Scenario1	<b>Bottom Clip</b>
From Node: NBSouth	Default: 0.00 ft
To Node: Noffsite-S	Op Table:
Link Count: 1	Ref Node:
Flow Direction: Both	<b>Top Clip</b>
Damping: 0.0000 ft	Default: 0.00 ft
Weir Type: Sharp Crested Vertical	Op Table:
Geometry Type: Irregular	Ref Node:
Invert: 24.62 ft	<b>Discharge Coefficients</b>
Control Elevation: 24.62 ft	Weir Default: 2.800
Cross Section: WSouth-OFFSITE-S	Weir Table:
	Orifice Default: 0.600
	Orifice Table:
Comment:	

<b>Weir Cross Section: W01B-03B</b>	
Scenario: Scenario1	
Lid: No	

**Bottom Point Table**

Order	Station [ft]	Elevation [ft]
0	0.00	25.97
1	4.83	25.55
2	9.65	25.20
3	14.48	25.23
4	19.31	25.56
5	24.13	25.80
6	28.96	25.78
7	33.79	25.74
8	38.61	25.71
9	43.44	25.68
10	48.27	25.66
11	53.09	25.78
12	57.92	25.93
13	62.75	26.03
14	67.57	26.02
15	72.40	25.98
16	77.23	26.00
17	82.05	26.03
18	86.88	25.97
19	91.71	25.88
20	96.53	26.07
21	101.36	25.98
22	106.18	25.67
23	111.01	25.54
24	115.84	25.57

Order	Station [ft]	Elevation [ft]
25	120.66	25.30
26	125.49	25.18
27	130.11	25.17
28	134.73	25.11
29	139.35	25.03
30	143.97	24.99
31	148.59	25.07
32	153.21	25.13
33	157.83	25.19
34	162.45	25.25
35	167.07	25.29
36	171.69	25.48
37	176.31	26.15
38	180.93	27.31
39	185.55	27.77
40	190.17	28.96
41	194.79	29.22
42	200.41	29.38
43	205.03	29.47
44	210.65	29.65
45	215.27	29.91
46	220.89	30.16
47	225.51	29.76
48	230.13	28.89
49	234.75	27.90
50	239.37	27.15
51	243.99	26.45
52	248.61	25.90
53	253.23	25.57
54	257.85	25.79
55	262.47	25.74
56	267.09	25.61
57	271.71	25.51
58	276.33	25.40
59	280.95	25.40
60	285.57	25.27
61	290.19	25.15
62	294.81	25.08
63	299.43	25.10
64	304.05	25.07
65	308.67	25.00
66	313.29	24.87
67	317.91	24.63
68	322.53	24.46
69	327.15	24.51
70	331.77	24.82
71	336.39	25.04
72	341.01	25.45
73	345.63	25.45
74	350.25	25.13

Order	Station [ft]	Elevation [ft]
75	358.64	25.10
76	363.48	25.05
77	368.33	24.76
78	373.17	24.78
79	378.02	24.68
80	382.86	24.87
81	387.71	25.00
82	392.55	25.17
83	397.40	25.35
84	402.24	25.55
85	407.09	25.72
86	411.93	25.81
87	416.78	25.88
88	421.63	25.97
89	426.47	26.44
90	431.32	27.14
91	436.16	27.40
92	441.01	27.45
93	445.85	27.44
94	450.70	27.33
95	455.51	27.32
96	460.33	27.44
97	465.14	27.20
98	469.95	26.40
99	474.77	26.25
100	479.58	25.85
101	484.40	25.59
102	489.21	25.53
103	494.02	25.31
104	498.84	25.33
105	503.65	25.58
106	508.47	25.80
107	513.28	26.02
108	518.10	26.09
109	522.91	25.97
110	527.72	25.77
111	532.54	25.67
112	537.35	25.80
113	542.17	25.84
114	546.98	25.68
115	551.80	25.56
116	556.61	25.64
117	561.42	25.66
118	566.27	25.54
119	571.11	25.43
120	575.95	25.80
121	580.80	26.24
122	585.64	26.37
123	590.48	26.42

Order	Station [ft]	Elevation [ft]
124	595.33	26.52
125	600.17	26.20
126	605.01	25.88
127	609.86	25.58
128	614.70	25.29
129	619.54	25.11
130	624.39	25.03
131	629.23	25.00
132	634.07	24.99
133	638.92	24.97
134	643.80	24.94
135	648.68	24.91
136	653.56	24.86
137	658.44	24.82
138	663.32	24.79
139	668.20	24.77
140	673.09	24.81
141	677.97	25.02
142	682.85	25.26
143	687.73	25.37
144	692.61	25.46
145	697.49	25.55
146	702.37	25.62
147	707.25	25.68
148	712.14	25.66
149	717.02	25.58
150	721.90	25.50
151	726.78	25.49
152	731.66	25.57
153	736.54	25.68
154	741.42	25.72
155	746.30	25.71
156	751.18	25.70
157	756.04	25.68
158	760.89	25.66
159	765.74	25.66
160	770.59	25.95
161	775.44	26.29
162	780.29	26.41
163	785.14	26.41
164	789.99	26.40
165	794.84	26.40
166	799.69	26.32
167	804.54	26.32
168	809.39	26.48
169	814.25	26.72
170	819.10	26.66
171	823.95	26.39
172	828.80	26.08

Order	Station [ft]	Elevation [ft]
173	833.65	26.73
174	838.50	25.50
175	843.50	25.40
176	848.20	25.36
177	853.05	25.37
178	857.90	25.38
179	862.75	25.42
180	867.60	25.39
181	872.46	25.26
182	877.31	25.12
183	882.16	25.08
184	887.01	25.14
185	891.86	25.19
186	896.74	25.20
187	901.56	25.15
188	906.32	25.17
189	911.09	25.08
190	915.85	24.94
191	920.62	24.80
192	925.38	24.63
193	930.14	24.96
194	934.91	25.16
195	939.67	25.18
196	944.43	25.25
197	949.20	25.35
198	953.96	25.45
199	958.73	25.31
200	963.49	25.88
201	968.25	27.02
202	973.02	28.09
203	977.78	28.47
204	982.55	28.17
205	987.31	27.41
206	992.07	26.58
207	996.99	25.99
208	1001.91	25.61
209	1006.83	25.50
210	1011.74	25.56
211	1016.66	25.46
212	1021.58	25.41
213	1026.50	25.39
214	1031.41	25.49
215	1036.33	25.52
216	1041.25	25.50
217	1046.17	25.44
218	1051.08	25.45
219	1056.00	25.74
220	1060.92	26.00
221	1065.84	26.18



Order	Station [ft]	Elevation [ft]
222	1070.75	26.35
223	1075.67	26.39
224	1080.59	26.23
225	1085.51	26.02
226	1090.42	25.97
227	1095.34	25.79
228	1100.26	25.65
229	1105.18	25.82
230	1110.10	26.39
231	1115.01	27.03
232	1119.93	27.44
233	1124.85	27.65
234	1129.83	27.59
235	1134.82	27.45
236	1139.80	27.03
237	1144.79	26.51
238	1149.77	26.17
239	1154.76	26.14
240	1159.74	26.15
241	1164.73	26.20
242	1169.72	26.28
243	1174.70	26.22
244	1179.69	26.08
245	1184.67	26.00
246	1189.66	26.13
247	1194.64	26.26
248	1199.63	26.14
249	1204.61	25.96
250	1209.60	25.77
251	1214.58	25.61
252	1219.57	25.40
253	1224.55	25.47
254	1229.54	25.52
255	1234.52	25.59
256	1239.51	25.70
257	1244.49	25.90
258	1249.48	26.08
259	1254.47	26.10
260	1259.45	26.04
261	1264.42	26.10
262	1269.39	26.50
263	1274.36	26.93
264	1279.33	27.12
265	1284.30	27.25
266	1289.27	27.23
267	1294.24	27.14
268	1299.21	26.93
269	1304.18	26.73
270	1309.15	26.74

Order	Station [ft]	Elevation [ft]
271	1314.13	26.20
272	1319.10	26.05
273	1324.07	26.27
274	1329.04	26.35
275	1334.01	26.09
276	1338.98	25.80
277	1343.95	25.74
278	1348.92	25.63
279	1353.89	25.45
280	1358.86	25.04
281	1363.83	24.87
282	1368.80	25.06
283	1373.77	25.06
284	1378.74	25.33
285	1383.71	25.09
286	1388.68	24.96
287	1393.65	25.19
288	1398.62	25.92
289	1403.52	26.09
290	1408.41	26.26
291	1413.30	26.27
292	1418.19	26.12
293	1423.08	26.13
294	1427.98	26.08
295	1432.87	25.97
296	1437.76	25.98
297	1442.65	26.24
298	1447.55	26.54
299	1452.44	26.41
300	1457.33	25.84
301	1462.23	25.32
302	1467.12	25.55
303	1472.01	26.46
304	1476.90	27.00
305	1481.79	27.21
306	1486.69	27.09
307	1491.58	26.91
308	1496.47	26.73
309	1501.37	26.57
310	1506.26	26.39
311	1511.15	26.27
312	1516.04	26.17
313	1520.94	26.19
314	1525.83	26.24
315	1530.78	26.09
316	1535.73	25.92
317	1540.69	25.87
318	1545.64	25.89
319	1550.59	26.39

Order	Station [ft]	Elevation [ft]
320	1555.55	26.87
321	1560.50	27.08
322	1565.45	27.35
323	1570.41	27.55
324	1575.36	27.68
325	1580.31	27.79
326	1585.27	28.11
327	1590.22	28.28
328	1595.17	28.20
329	1600.13	28.68
330	1605.08	28.85
331	1610.03	28.63
332	1614.99	28.62
333	1619.94	28.72
334	1624.89	28.45
335	1629.47	28.71
336	1634.05	28.73
337	1638.62	28.60
338	1643.20	28.13
339	1647.78	28.15
340	1652.35	28.36
341	1656.93	28.49
342	1661.51	28.36
343	1666.08	28.23
344	1670.66	28.10
345	1675.23	27.87
346	1679.78	27.73
347	1684.32	27.70
348	1688.86	27.70
349	1693.40	27.67
350	1697.94	27.95
351	1702.48	27.90
352	1707.02	28.03
353	1711.56	28.31
354	1716.11	28.28
355	1720.75	28.39
356	1725.40	28.49
357	1730.05	28.49
358	1734.69	28.54
359	1739.34	28.65
360	1743.99	28.51
361	1748.63	28.14
362	1753.28	28.04
363	1757.93	27.95
364	1762.89	28.04
365	1767.85	28.05
366	1772.81	28.20
367	1777.77	28.34
368	1782.74	28.70

Order	Station [ft]	Elevation [ft]
369	1787.70	28.93
370	1792.66	28.91
371	1797.62	28.70
372	1802.30	28.37
373	1806.98	28.20
374	1811.66	28.22
375	1816.33	28.21
376	1821.01	28.22
377	1825.69	28.23
378	1830.37	28.11
379	1835.03	28.17
380	1839.70	28.49
381	1844.36	29.06
382	1849.02	29.07
383	1853.75	28.90
384	1858.49	28.63
385	1863.22	28.63
386	1867.95	28.58
387	1872.68	28.35
388	1877.42	27.96
389	1882.15	27.72
390	1886.88	27.43
391	1891.61	27.24
392	1896.35	27.21
393	1901.08	27.20
394	1905.81	27.17
395	1910.48	27.22
396	1915.16	27.31
397	1919.83	27.36
398	1924.50	27.49
399	1929.18	27.68
400	1934.02	27.78
401	1938.86	27.82
402	1943.70	27.52
403	1948.55	27.28
404	1953.39	27.14
405	1958.23	27.40
406	1963.08	27.82
407	1967.92	28.02
408	1972.43	27.73
409	1976.95	27.15
410	1981.46	27.17
411	1985.97	27.16
412	1990.49	27.11
413	1995.00	27.06
414	1999.52	27.05
415	2004.27	27.05
416	2009.02	27.08
417	2013.77	27.16

Order	Station [ft]	Elevation [ft]
418	2018.52	27.20
419	2023.27	27.16
420	2028.02	27.32
421	2032.77	27.80
422	2037.52	28.16
423	2042.27	28.33
424	2047.02	28.22
425	2051.77	28.17
426	2056.52	28.13
427	2061.45	28.02
428	2066.39	27.96
429	2071.33	27.82
430	2076.27	27.78
431	2081.20	27.73
432	2086.14	27.44
433	2091.08	27.36
434	2095.71	27.29
435	2100.34	27.23
436	2104.94	27.17
437	2109.60	27.11
438	2114.23	27.00
439	2118.86	27.19
440	2123.49	27.50
441	2128.31	27.26
442	2133.14	27.17
443	2137.96	27.40
444	2142.78	27.60
445	2147.61	27.66
446	2152.43	27.46
447	2157.26	27.30
448	2162.08	27.14
449	2166.90	27.18
450	2171.73	27.26
451	2176.55	27.40
452	2181.38	27.86
453	2186.20	28.17
454	2191.02	28.29
455	2195.85	28.35
456	2200.67	28.72

Comment:

Weir Cross Section: WSouth-OFFSITE-S

Scenario: Scenario1

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	19.25	25.47
1	24.07	25.04
2	28.88	24.99
3	33.69	25.29
4	38.51	25.43
5	43.32	25.45
6	48.06	25.45
7	52.79	25.56
8	57.53	25.61
9	61.87	25.55
10	66.22	25.47
11	70.56	25.50
12	75.12	25.57
13	473.70	25.36
14	478.51	25.30
15	483.32	25.42
16	528.44	25.52
17	533.26	25.44
18	538.08	25.35
19	542.93	25.39
20	547.79	25.45
21	552.65	25.45
22	557.51	25.50
23	562.36	25.25
24	566.43	25.10
25	570.49	24.95
26	574.56	24.97
27	578.62	24.98
28	582.69	25.01
29	587.13	25.02
30	591.57	25.12
31	596.02	25.29
32	600.46	25.45
33	604.90	25.61
34	614.21	25.56
35	619.07	25.43
36	623.93	25.30
37	628.79	25.17
38	633.65	25.05
39	638.51	25.06
40	643.36	25.23
41	648.22	25.17
42	653.08	25.06
43	657.94	25.48
44	766.40	25.61
45	771.20	25.31
46	776.00	25.30
47	780.80	25.48

Order	Station [ft]	Elevation [ft]
48	785.60	25.55
49	789.90	25.47
50	794.19	25.35
51	798.49	25.24
52	802.93	25.17
53	807.36	25.07
54	811.80	25.04
55	816.23	25.10
56	820.67	25.24
57	825.11	25.41
58	903.28	25.61
59	907.96	25.41
60	912.64	25.26
61	917.32	25.09
62	922.00	24.93
63	926.68	24.90
64	930.16	24.90
65	933.63	24.92
66	937.11	24.93
67	941.60	25.01
68	946.09	25.11
69	950.58	25.26
70	955.07	25.42
71	959.56	25.49
72	964.22	25.43
73	968.88	25.32
74	973.54	25.35
75	977.14	25.41
76	980.74	25.35
77	984.33	25.24
78	988.82	25.23
79	993.31	25.20
80	997.80	25.20
81	1002.29	25.18
82	1006.78	25.15
83	1011.64	25.12
84	1016.49	25.30
85	1021.35	25.56
86	1026.20	25.60
87	1031.06	25.50
88	1035.91	25.37
89	1040.77	25.39
90	1045.65	25.31
91	1050.54	25.24
92	1055.43	25.27
93	1060.32	25.33
94	1065.20	25.42
95	1070.09	25.34
96	1074.98	25.38



Order	Station [ft]	Elevation [ft]
97	1079.43	25.36
98	1083.89	25.31
99	1088.34	25.27
100	1092.80	25.29
101	1097.22	25.39
102	1101.65	25.45
103	1106.07	25.48
104	1110.49	25.50
105	1114.92	25.44
106	1119.34	25.36
107	1123.76	25.28
108	1128.23	25.19
109	1132.70	25.08
110	1137.16	24.99
111	1141.63	24.91
112	1146.10	25.02
113	1150.57	25.19
114	1154.87	25.34
115	1159.17	25.51
116	1163.47	25.61
117	1172.23	25.47
118	1176.70	25.20
119	1181.17	24.97
120	1185.63	24.86
121	1190.31	24.80
122	1195.00	24.85
123	1198.49	24.89
124	1201.99	25.05
125	1205.48	25.23
126	1209.63	25.26
127	1213.78	25.28
128	1217.93	25.06
129	1222.89	24.94
130	1227.85	24.85
131	1231.72	24.82
132	1235.59	24.83
133	1239.46	24.85
134	1243.26	24.89
135	1247.05	24.92
136	1250.85	25.09
137	1254.64	25.38
138	1271.59	25.55
139	1275.71	25.54
140	1279.83	25.60
141	1736.72	25.61
142	1741.15	25.54
143	1745.58	25.51
144	1750.00	25.52
145	1754.66	25.56

Order	Station [ft]	Elevation [ft]
146	1788.17	25.60
147	1793.13	25.54
148	1798.04	25.52
149	1802.96	25.54
150	1807.87	25.57
151	1859.55	25.50
152	1863.74	25.41
153	1867.94	25.35
154	1872.14	25.33
155	1876.34	25.32
156	1880.54	25.31
157	1884.73	25.32
158	1889.68	25.32
159	1894.62	25.33
160	1899.57	25.42
161	1903.56	25.49
162	1907.55	25.47
163	1911.54	25.61
164	1947.55	25.41
165	1951.76	25.29
166	1955.96	25.26
167	1960.17	25.24
168	2009.94	25.53
169	2014.75	25.41
170	2019.57	25.39
171	2024.38	25.28
172	2029.20	25.12
173	2034.02	25.00
174	2038.83	24.93
175	2043.65	24.86
176	2048.32	24.83
177	2052.99	24.78
178	2057.66	24.79
179	2062.33	24.79
180	2067.00	24.85
181	2071.67	24.95
182	2076.34	25.02
183	2081.01	24.98
184	2085.44	24.95
185	2089.87	24.86
186	2094.29	24.77
187	2098.72	24.69
188	2103.21	24.68
189	2107.70	24.68
190	2112.19	24.68
191	2116.69	24.69
192	2121.18	24.72
193	2125.67	24.78
194	2130.16	24.99

Order	Station [ft]	Elevation [ft]
195	2134.65	25.32
196	2139.15	25.45
197	2143.57	25.17
198	2148.00	24.95
199	2152.42	24.93
200	2156.85	24.85
201	2161.58	24.79
202	2166.31	24.75
203	2171.04	24.74
204	2175.77	24.83
205	2180.50	25.04
206	2185.23	25.23
207	2189.84	25.22
208	2194.44	24.80
209	2199.05	24.70
210	2203.65	24.75
211	2208.26	24.71
212	2212.86	24.75
213	2217.47	24.84
214	2222.07	24.94
215	2226.86	25.00
216	2231.65	25.06
217	2236.44	25.13
218	2241.23	25.51
219	2317.92	25.58
220	2322.73	25.52
221	2327.53	25.46
222	2332.34	25.41
223	2337.15	25.36
224	2341.95	25.31
225	2346.76	25.28
226	2351.56	25.28
227	2356.37	25.30
228	2361.17	25.34
229	2365.98	25.37
230	2370.78	25.42
231	2375.59	25.47
232	2400.56	25.61
233	2405.56	25.36
234	2410.48	25.32
235	2415.40	25.35
236	2420.33	25.35
237	2425.25	25.35
238	2430.17	25.35
239	2435.10	25.36
240	2440.02	25.37
241	2444.21	25.38
242	2448.39	25.39
243	2452.58	25.41

Order	Station [ft]	Elevation [ft]
244	2456.77	25.41
245	2460.96	25.42
246	2465.27	25.39
247	2469.59	25.35
248	2473.90	25.32
249	2478.22	25.30
250	2482.53	25.29
251	2486.84	25.29
252	2491.16	25.28
253	2496.09	25.26
254	2501.01	25.25
255	2505.94	25.27
256	2510.87	25.30
257	2515.80	25.31
258	2520.72	25.28
259	2525.69	25.24
260	2530.65	25.18
261	2535.62	25.10
262	2540.58	25.01
263	2545.55	24.92
264	2550.51	24.85
265	2555.48	24.80
266	2560.44	24.75
267	2565.40	24.71
268	2570.37	24.67
269	2575.33	24.64
270	2580.30	24.62
271	2585.03	24.63
272	2589.76	24.66
273	2594.50	24.74
274	2599.23	24.82
275	2603.96	25.19
276	2608.69	25.37
277	2613.43	25.21
278	2618.16	25.06
279	2622.65	25.07
280	2627.13	25.10
281	2631.62	25.21
282	2636.11	25.43
283	2666.87	25.51
284	2671.20	25.47
285	2675.52	25.49
286	2679.57	25.51
287	2683.63	25.56
288	2736.54	25.52
289	2741.22	25.46
290	2745.89	25.41
291	2750.57	25.38
292	2755.25	25.35

Order	Station [ft]	Elevation [ft]
293	2759.92	25.33
294	2764.60	25.29
295	2769.27	25.26
296	2773.87	25.22
297	2778.46	25.18
298	2783.06	25.14
299	2787.65	25.12
300	2792.25	25.10
301	2796.84	25.08
302	2801.44	25.06
303	2806.03	25.04
304	2810.63	25.03
305	2815.22	25.02
306	2819.82	25.02
307	2824.41	25.03
308	2828.95	25.04
309	2833.48	25.07
310	2838.01	25.11
311	2842.54	25.18
312	2847.29	25.24
313	2852.04	25.47
314	2879.45	25.42
315	2883.83	25.19
316	2888.22	25.06
317	2892.60	24.95
318	2896.99	24.87
319	2901.37	24.80
320	2906.00	24.77
321	2910.63	24.76
322	2915.26	24.77
323	2919.89	24.78
324	2924.09	24.82
325	2928.28	24.95
326	2932.48	25.13
327	2936.67	25.21
328	2940.59	25.12
329	2944.52	24.99
330	2948.44	24.84
331	2952.36	24.75
332	2957.04	24.76
333	2961.73	24.77
334	2966.42	24.83
335	2971.10	24.90
336	2975.79	25.00
337	2979.75	25.25
338	2983.71	25.39
339	2987.68	25.39
340	2991.64	25.28
341	2996.52	25.15

Order	Station [ft]	Elevation [ft]
342	3001.40	25.03
343	3006.29	24.92
344	3011.17	24.83
345	3016.05	24.78
346	3020.94	24.80
347	3025.82	24.79
348	3030.70	24.80
349	3035.59	24.80
350	3040.40	24.80
351	3045.22	24.79
352	3050.04	24.78
353	3054.84	24.78
354	3059.67	24.78
355	3064.49	24.78
356	3069.31	24.79
357	3074.12	24.80
358	3078.93	24.80
359	3083.75	24.79
360	3088.56	24.79
361	3093.37	24.80
362	3098.18	24.80
363	3102.99	24.84
364	3107.80	24.88
365	3112.62	24.90
366	3117.43	24.90
367	3122.24	24.90
368	3127.05	24.90
369	3131.58	24.89
370	3136.12	24.90
371	3140.65	24.90
372	3145.19	24.89
373	3149.72	24.91
374	3154.63	24.99
375	3159.54	25.09
376	3164.45	25.17
377	3169.37	25.27
378	3174.28	25.43
379	3197.64	25.36
380	3202.15	25.37
381	3206.67	25.43
382	3211.18	25.54
383	3224.98	25.55
384	3229.76	25.45
385	3234.54	25.35
386	3239.31	25.28
387	3243.73	25.23
388	3248.16	25.19
389	3252.58	25.16
390	3257.01	25.15

Order	Station [ft]	Elevation [ft]
391	3261.43	25.15
392	3265.86	25.17
393	3270.28	25.18
394	3274.84	25.16
395	3279.39	25.15
396	3283.95	25.14
397	3288.50	25.14
398	3292.93	25.15
399	3297.36	25.16
400	3301.79	25.16
401	3306.66	25.15
402	3311.52	25.13
403	3316.39	25.11
404	3321.26	25.08
405	3326.12	25.06
406	3330.99	25.04
407	3335.88	25.01
408	3340.77	24.99
409	3345.66	24.96
410	3350.55	24.93
411	3355.44	24.91
412	3360.33	24.93
413	3365.22	24.98
414	3370.11	25.25
415	3375.00	25.33
416	3379.23	25.24
417	3383.46	25.17
418	3387.69	25.17
419	3391.92	25.24
420	3396.14	25.45
421	3400.37	25.50
422	3405.11	25.39
423	3409.84	25.30
424	3414.58	25.28
425	3418.80	25.37
426	3423.02	25.51
427	3481.31	25.30
428	3485.85	25.13
429	3490.39	25.14
430	3494.93	25.24
431	3498.61	25.36
432	3502.29	25.47
433	3505.98	25.54
434	3510.10	25.54
435	3514.22	25.49
436	3518.34	25.61
437	3522.46	25.53
438	3526.58	25.49
439	3530.61	25.47



Order	Station [ft]	Elevation [ft]
440	3534.65	25.44
441	3538.69	25.18
442	3543.32	25.12
443	3547.96	25.27
444	3552.59	25.44
445	3557.23	25.42
446	3561.76	25.31
447	3566.28	25.24
448	3570.81	25.22
449	3575.34	25.33
450	3579.60	25.25
451	3583.86	25.09
452	3588.11	25.23
453	3593.04	25.37
454	3597.97	25.39
455	3602.90	25.36
456	3607.83	25.36
457	3612.80	25.21
458	3617.77	24.95
459	3622.74	24.80
460	3627.71	24.80
461	3632.68	24.94
462	3637.64	25.13
463	3642.61	25.60
464	3757.35	25.44
465	3761.65	25.22
466	3765.94	25.42
467	3815.98	25.57
468	3820.54	25.43
469	3825.09	25.35
470	3829.65	25.19
471	3834.44	25.22
472	3839.22	25.30
473	3844.01	25.40
474	3848.79	25.49
475	3853.58	25.51
476	3858.37	25.50
477	3863.15	25.58
478	4063.66	25.46
479	4068.54	25.33
480	4073.42	25.34
481	4078.29	25.26
482	4083.17	25.14
483	4088.05	25.03
484	4092.92	24.99
485	4097.80	25.00
486	4102.68	25.03
487	4107.56	25.08
488	4112.26	25.12

Order	Station [ft]	Elevation [ft]
489	4116.97	25.18
490	4121.67	25.24
491	4126.38	25.31
492	4131.08	25.38
493	4135.79	25.43
494	4140.50	25.49
495	4145.20	25.55
496	4149.91	25.61

Comment:

**Simulation: Mean Annual**

Scenario: Scenario1  
 Run Date/Time: 8/30/2020 5:33:54 PM  
 Program Version: ICPR4 4.04.00

**General**

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

**Output Time Increments**

**Hydrology**

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

**Surface Hydraulics**

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

**Groundwater**

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

**Restart File**

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight	0.5 dec		
Fact:			
dZ Tolerance:	0.0010 ft	Manual Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	Global
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	~FLMOD
		Rainfall Amount:	5.00 in
Edge Length Option:	Automatic	Storm Duration:	24.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area	100 ft2	Min Node Srf Area	100 ft2
(2D):		(1D):	
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment:
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## Simulation: SJRWMD 25Y-24H

Scenario: Scenario1  
Run Date/Time: 8/30/2020 5:43:28 PM  
Program Version: ICPR4 4.04.00

## General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000

End Time: 0 0 0 48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

#### Output Time Increments

##### Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Restart File

Save Restart: False

#### Resources & Lookup Tables

##### Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

##### Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

#### Tolerances & Options

Time Marching: SAOR  
Max Iterations: 6  
Over-Relax Weight 0.5 dec  
Fact:  
dZ Tolerance: 0.0010 ft

IA Recovery Time: 24.0000 hr  
ET for Manual Basins: False  
  
Manual Basin Rain Opt: Global

Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
Edge Length Option: Automatic	Rainfall Amount: 9.50 in
	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (2D): 100 ft2	Min Node Srf Area (1D): 100 ft2
	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: St Johns River Water Management District 25Y-24H

Simulation: Treatment Volume Recovery

Scenario: Scenario1  
 Run Date/Time: N/A  
 Program Version: N/A

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	40.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

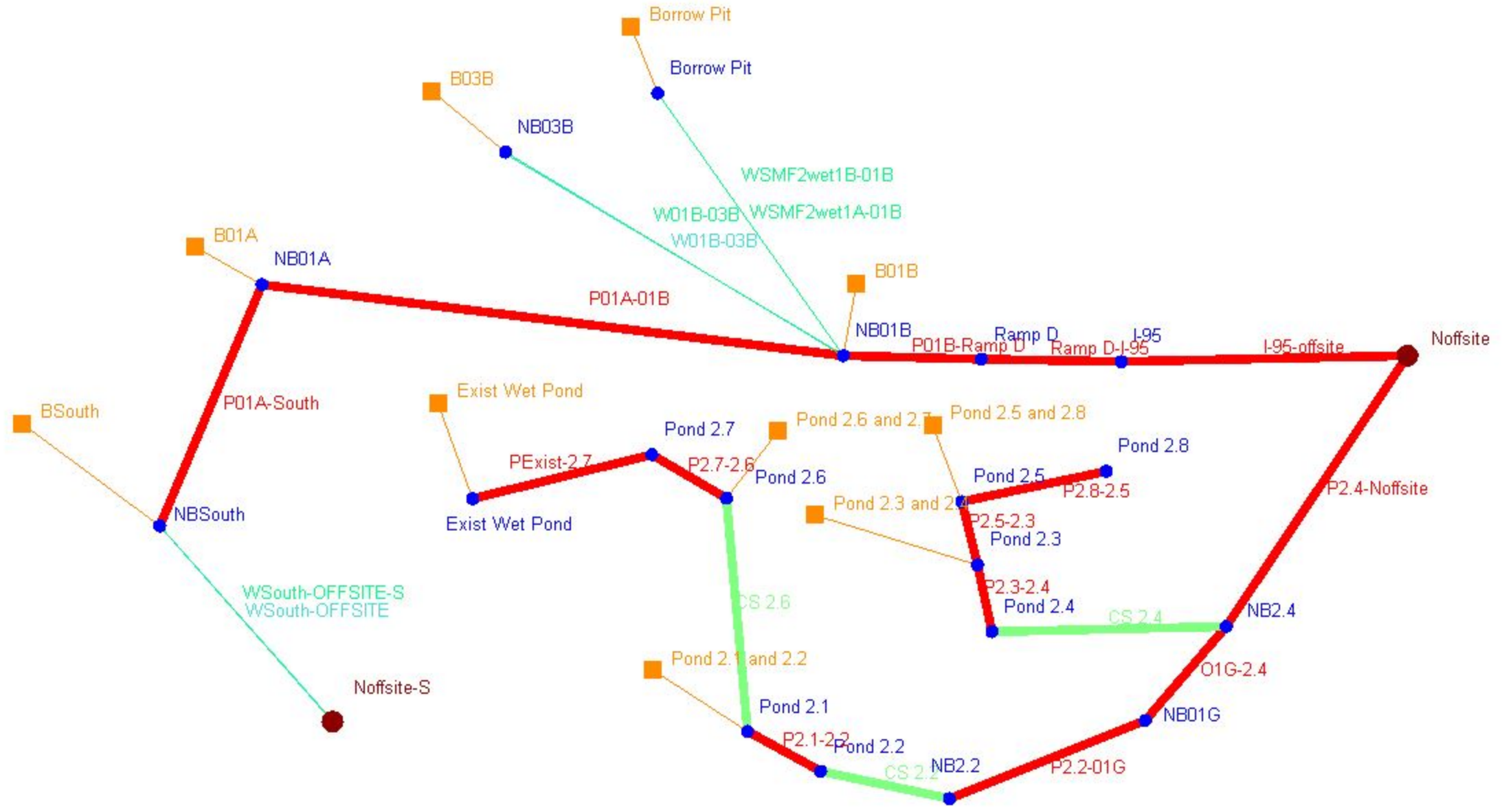
Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6	ET for Manual Basins:	False
Over-Relax Weight	0.5 dec		
Fact:			
dZ Tolerance:	0.0010 ft	Manual Basin Rain Opt:	Global
Max dZ:	1.0000 ft	OF Region Rain Opt:	No Rainfall
Link Optimizer Tol:	0.0001 ft	Rainfall Name:	
		Rainfall Amount:	0.00 in
Edge Length Option:	Automatic	Storm Duration:	0.0000 hr
Dflt Damping (2D):	0.0050 ft	Dflt Damping (1D):	0.0050 ft
Min Node Srf Area	100 ft2	Min Node Srf Area	100 ft2
(2D):		(1D):	
Energy Switch (2D):	Energy	Energy Switch (1D):	Energy

Comment: Treatment Volume Recovery
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Scenario	Sim	Node Name	Maximum Stage [ft]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
Scenario1	Mean Annual	Borrow Pit	25.65	56.26	6.35
Scenario1	Mean Annual	Existing Pond	25.15	42.61	26.77
Scenario1	Mean Annual	NB01A	24.73	64.54	4.98
Scenario1	Mean Annual	NB01B	24.68	95.18	17.22
Scenario1	Mean Annual	NB01G	24.64	57.02	55.47
Scenario1	Mean Annual	NB03B	24.94	31.91	20.11
Scenario1	Mean Annual	NB2.2	24.76	57.41	57.02
Scenario1	Mean Annual	NB2.4	24.53	100.36	100.34
Scenario1	Mean Annual	NB2.5	26.62	53.68	53.74
Scenario1	Mean Annual	NB2.6	26.47	43.08	43.06
Scenario1	Mean Annual	NBSouth	24.74	35.61	3.20
Scenario1	Mean Annual	Noffsite	15.00	140.56	0.00
Scenario1	Mean Annual	Noffsite-S	24.50	2.60	0.00
Scenario1	SJRWMD 25Y-24H	Borrow Pit	26.22	112.14	29.29
Scenario1	SJRWMD 25Y-24H	Existing Pond	26.01	90.85	37.92
Scenario1	SJRWMD 25Y-24H	NB01A	25.20	141.80	47.96
Scenario1	SJRWMD 25Y-24H	NB01B	25.42	228.52	42.67
Scenario1	SJRWMD 25Y-24H	NB01G	25.98	126.55	98.50
Scenario1	SJRWMD 25Y-24H	NB03B	25.42	73.49	57.04
Scenario1	SJRWMD 25Y-24H	NB2.2	26.37	126.62	126.55
Scenario1	SJRWMD 25Y-24H	NB2.4	25.74	153.72	153.71
Scenario1	SJRWMD 25Y-24H	NB2.5	33.10	115.80	115.74
Scenario1	SJRWMD 25Y-24H	NB2.6	31.86	99.96	99.92
Scenario1	SJRWMD 25Y-24H	NBSouth	24.95	95.03	72.83
Scenario1	SJRWMD 25Y-24H	Noffsite	15.00	229.14	0.00
Scenario1	SJRWMD 25Y-24H	Noffsite-S	24.50	72.83	0.00



## Alternative 2 - ICPR Post-Development



## Manual Basin: B01A

Scenario: Scenario1  
 Node: NB01A  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 53.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
56.5600	B01A	B01A			

Comment:

## Manual Basin: B01B

Scenario: Scenario1  
 Node: NB01B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 23.5000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
19.5900	B01B	B01B			

Comment:

## Manual Basin: B03B

Scenario: Scenario1  
 Node: NB03B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 29.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
24.0000	B03B	B03B			

Comment:

Manual Basin: BSouth

Scenario: Scenario1  
 Node: NBSouth  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 59.7000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
30.1300	BSouth	BSouth			

Comment:

Manual Basin: Borrow Pit

Scenario: Scenario1  
 Node: Borrow Pit  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 21.0800 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
27.6000	Borrow Pit	Borrow Pit			

Comment:

Manual Basin: Exist Wet Pond

Scenario: Scenario1  
 Node: Exist Wet Pond  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 12.6600 min  
 Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
18.6500	Exist Wet Pond	Exist Wet Pond			

Comment:

Manual Basin: Pond 2.1 and 2.2

Scenario: Scenario1  
 Node: Pond 2.1  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
24.4100	Pond 2.1 and 2.2	Pond 2.1 and 2.2			

Comment:

Manual Basin: Pond 2.3 and 2.4

Scenario: Scenario1  
 Node: Pond 2.3  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
21.0900	Pond 2.3 and 2.4	Pond 2.3 and 2.4			

Comment:

Manual Basin: Pond 2.5 and 2.8

Scenario: Scenario1  
Node: Pond 2.5  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
21.9600	Pond 2.5 and 2.8	Pond 2.5 and 2.8			

Comment:

Manual Basin: Pond 2.6 and 2.7

Scenario: Scenario1  
Node: Pond 2.6  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
12.0900	Pond 2.6 and 2.7	Pond 2.6 and 2.7			

Comment:

Curve Number: CN [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
B01A	B01A	89.0
B01B	B01B	87.0
B01G	B01G	84.0
B03B	B03B	83.0
BSouth	BSouth	82.0
Borrow Pit	Borrow Pit	93.0
Exist Wet Pond	Exist Wet Pond	91.6
Pond 2.1 and 2.2	Pond 2.1 and 2.2	91.7
Pond 2.3 and 2.4	Pond 2.3 and 2.4	90.8
Pond 2.5 and 2.8	Pond 2.5 and 2.8	92.7
Pond 2.6 and 2.7	Pond 2.6 and 2.7	93.3

## Node: Borrow Pit

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.86 ft  
 Warning Stage: 27.86 ft

Stage [ft]	Area [ac]	Area [ft2]
1.86	5.5100	240016
24.86	8.2400	358934
27.86	8.9500	389862

Comment:

## Node: Exist Wet Pond

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.36 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	2.4800	108029
22.50	3.1800	138521
24.36	3.6200	157687
27.50	4.3900	191228
28.50	5.3400	232610

Comment:

## Node: I-95

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.00 ft  
 Warning Stage: 24.94 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
24.94	0.0000	0

Comment:

Node: NB01A

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 32.06 ft

Stage [ft]	Area [ac]	Area [ft2]
22.33	0.0010	44
23.33	0.1000	4356
24.33	15.5000	675180
25.33	31.9000	1389564
26.33	42.8000	1864368
27.33	52.1000	2269476
28.33	58.3000	2539548
29.33	60.8000	2648448
30.33	60.9000	2652804
31.33	61.0000	2657160
32.06	61.0000	2657160

Comment:

Node: NB01B

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.21 ft  
 Warning Stage: 51.46 ft

Stage [ft]	Area [ac]	Area [ft2]
22.21	0.0010	44
22.61	0.0010	44
23.61	0.7000	30492
24.61	17.7000	771012
25.61	27.2000	1184832
27.61	37.8000	1646568
28.61	39.1000	1703196
29.61	40.1000	1746756
30.61	40.7000	1772892
31.61	40.8000	1777248
32.61	40.8000	1777248
33.61	40.8000	1777248
34.61	40.9000	1781604
35.61	40.9000	1781604
36.61	40.9000	1781604
37.61	41.0000	1785960
38.61	41.0000	1785960



Stage [ft]	Area [ac]	Area [ft2]
39.61	41.0000	1785960
40.61	41.1000	1790316
41.61	41.1000	1790316
42.61	41.1000	1790316
43.61	41.2000	1794672
44.61	41.2000	1794672
45.61	41.2000	1794672
46.61	41.3000	1799028
47.61	41.3000	1799028
48.61	41.3000	1799028
49.61	41.4000	1803384
50.61	41.4000	1803384
51.51	41.4000	1803384
26.61	34.2000	1489752

Comment:

Node: NB01G

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.66 ft  
Warning Stage: 29.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.66	0.0000	0
23.50	0.0000	0
24.00	0.0110	479
24.50	0.2020	8799
25.00	0.5920	25788
25.50	2.4520	106809
26.00	3.4590	150674
26.50	3.7560	163611
27.00	3.9920	173892
27.50	4.3170	188049
28.00	4.5720	199156
28.50	4.8340	210569
29.00	5.0980	222069
29.50	5.3660	233743
30.00	5.6360	245504

Comment:

Node: NB03B

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.06 ft  
 Warning Stage: 32.01 ft

Stage [ft]	Area [ac]	Area [ft2]
23.19	0.0010	44
24.19	0.3000	13068
25.19	6.5000	283140
26.19	11.5000	500940
27.19	13.5000	588060
28.19	14.1000	614196
29.19	14.4000	627264
30.19	14.6000	635976
31.19	14.6000	635976
32.01	14.6000	635976

Comment:

Node: NB2.2

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.75 ft  
 Warning Stage: 25.15 ft

Stage [ft]	Area [ac]	Area [ft2]
20.75	0.0000	0
25.15	0.0000	0

Comment:

Node: NB2.4

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.13 ft  
 Warning Stage: 25.86 ft

Stage [ft]	Area [ac]	Area [ft2]
20.13	0.0000	0
25.86	0.0000	0

Comment:

## Node: NBSouth

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 33.67 ft

Stage [ft]	Area [ac]	Area [ft2]
22.39	0.0010	44
22.89	0.0143	623
23.39	0.0964	4199
23.89	1.2391	53975
24.39	12.3783	539199
24.89	22.2377	968674
25.39	27.0965	1180324
25.89	31.2305	1360401
26.39	33.3190	1451376
26.89	34.2642	1492549
27.39	34.5225	1503800
27.89	34.6654	1510025
28.39	34.7297	1512826
28.89	34.7584	1514076
29.39	34.7687	1514525
29.89	34.7740	1514755
33.67	34.7740	1514755

Comment:

## Node: Noffsite

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.00 ft  
 Warning Stage: 15.00 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	15.00
0	0	0	50.0000	15.00

Comment:

## Node: Noffsite-S

Scenario: Scenario1  
 Type: Time/Stage

Base Flow: 0.00 cfs  
 Initial Stage: 24.50 ft  
 Warning Stage: 24.50 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	24.50
0	0	0	50.0000	24.50

Comment:

**Node: Pond 2.1**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.74 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	4.0100	174676
22.50	4.3000	187308
23.74	4.5000	196020
27.50	5.1400	223898
28.50	5.8100	253084

Comment:

**Node: Pond 2.2**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.74 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.0800	47045
22.50	1.3400	58370
23.74	1.4600	63598
27.50	1.8300	79715
28.50	2.2300	97139

Comment:

## Node: Pond 2.3

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.5700	68389
22.50	2.0200	87991
24.29	2.3000	100188
27.50	2.8300	123275
28.50	3.4700	151153

Comment:

## Node: Pond 2.4

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.9300	40511
22.50	1.2600	54886
24.29	1.4600	63598
27.50	1.8400	80150
28.50	2.3200	101059

Comment:

## Node: Pond 2.5

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.5900	69260
22.50	2.0300	88427
24.29	2.3100	100624
27.50	2.8200	122839
28.50	3.4400	149846

Comment:

**Node: Pond 2.6**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.3500	58806
22.50	1.7100	74488
24.29	1.9400	84506
27.50	2.3700	103237
28.50	2.9000	126324

Comment:

**Node: Pond 2.7**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.4500	19602
22.50	0.6200	27007
24.29	0.7400	32234
27.50	0.9600	41818
28.50	1.2400	54014

Comment:

**Node: Pond 2.8**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	3.0800	134165
22.50	3.5500	154638
24.29	3.8300	166835
27.50	4.3600	189922
28.50	5.0100	218236

Comment:

**Node: Ramp D**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.09 ft  
 Warning Stage: 25.09 ft

Stage [ft]	Area [ac]	Area [ft2]
22.09	0.0000	0
25.09	0.0000	0

Comment:

Drop Structure Link: CS 2.2		Upstream Pipe	Downstream Pipe
Scenario:	Scenario1	Invert: 22.25 ft	Invert: 20.75 ft
From Node:	Pond 2.2	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB2.2	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	365.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft		
Energy Switch:	Energy		

Pipe Comment:

Weir Component	
Weir:	Bottom Clip
Weir Count:	Default: 0.00 ft
Weir Flow Direction:	Op Table:

Damping: 0.0000 ft  
 Weir Type: Horizontal  
 Geometry Type: Rectangular  
 Invert: 26.50 ft  
 Control Elevation: 26.50 ft  
 Max Depth: 6.58 ft  
 Max Width: 3.00 ft  
 Fillet: 0.00 ft

Ref Node:  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment: DBI Type H  
 6'-7"x3'-0"

Weir Component  
 Weir: 2  
 Weir Count: 1  
 Weir Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Sharp Crested Vertical  
 Geometry Type: Circular  
 Invert: 23.49 ft  
 Control Elevation: 23.74 ft  
 Max Depth: 0.36 ft

Bottom Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment:

Weir Component  
 Weir: 3  
 Weir Count: 1  
 Weir Flow Direction: Both  
 Damping: 0.0000 ft  
 Weir Type: Sharp Crested Vertical  
 Geometry Type: Rectangular  
 Invert: 24.19 ft  
 Control Elevation: 24.19 ft  
 Max Depth: 2.31 ft  
 Max Width: 3.20 ft  
 Fillet: 0.00 ft

Bottom Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Top Clip  
 Default: 0.00 ft  
 Op Table:  
 Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment:

Drop Structure Comment:



Drop Structure Link: CS 2.4		Upstream Pipe	Downstream Pipe
Scenario:	Scenario1	Invert: 21.25 ft	Invert: 21.00 ft
From Node:	Pond 2.4	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB2.4	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	210.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft		
Energy Switch:	Energy		

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default: 0.00 ft	
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Horizontal	Default: 0.00 ft	
Geometry Type:	Rectangular	Op Table:	
Invert:	26.50 ft	Ref Node:	
Control Elevation:	26.50 ft	Discharge Coefficients	
Max Depth:	6.58 ft	Weir Default: 3.200	
Max Width:	3.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default: 0.600	
		Orifice Table:	

Weir Comment:

Weir Component		Bottom Clip	
Weir:	2	Default: 0.00 ft	
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default: 0.00 ft	
Geometry Type:	Circular	Op Table:	
Invert:	24.04 ft	Ref Node:	
Control Elevation:	24.29 ft	Discharge Coefficients	
Max Depth:	0.40 ft	Weir Default: 3.200	
		Weir Table:	
		Orifice Default: 0.600	
		Orifice Table:	

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 24.83 ft	Op Table:
Control Elevation: 24.83 ft	Ref Node:
Max Depth: 1.67 ft	Discharge Coefficients
Max Width: 2.00 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS 2.6	Upstream Pipe	Downstream Pipe
Scenario: Scenario1	Invert: 21.00 ft	Invert: 19.75 ft
From Node: Pond 2.6	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Pond 2.1	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length: 250.00 ft	Top Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft		
Energy Switch: Energy		

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 26.50 ft	Op Table:
Control Elevation: 26.50 ft	Ref Node:

Max Depth: 6.58 ft  
 Max Width: 3.00 ft  
 Fillet: 0.00 ft

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: DBI Type H  
 6'-7"x3'-0"

Weir Component	
Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 24.04 ft	Op Table:
Control Elevation: 24.29 ft	Ref Node:
Max Depth: 0.35 ft	Discharge Coefficients
	Weir Default: 3.200
	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 2	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 24.80 ft	Op Table:
Control Elevation: 24.80 ft	Ref Node:
Max Depth: 1.70 ft	Discharge Coefficients
Max Width: 3.85 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Pipe Link: I-95-offsite	Upstream	Downstream
Scenario: Scenario1	Invert: 21.94 ft	Invert: 20.84 ft
From Node: I-95	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Noffsite	Geometry: Circular	Geometry: Circular

Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	540.00 ft	Op Table:		Op Table:	
FHWA Code:	0	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 ft	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link:	O1G-2.4	Upstream		Downstream	
Scenario:	Scenario1	Invert:	20.66 ft	Invert:	20.13 ft
From Node:	NB01G	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	NB2.4	Geometry:	Rectangular	Geometry:	Rectangular
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Max Width:	7.00 ft	Max Width:	7.00 ft
Damping:	0.0000 ft	Fillet:	0.00 ft	Fillet:	0.00 ft
Length:	180.00 ft	Bottom Clip			
FHWA Code:	0	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 ft	Top Clip			
Energy Switch:	Energy	Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000
Comment:					

Pipe Link:	P01A-01B	Upstream		Downstream	
Scenario:	Scenario1	Invert:	24.36 ft	Invert:	24.16 ft
From Node:	NB01A	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	NB01B	Geometry:	Horizontal Ellipse	Geometry:	Horizontal Ellipse
Link Count:	5	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	130.00 ft	Op Table:		Op Table:	
FHWA Code:	0	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 ft	Op Table:		Op Table:	

Energy Switch: Energy	Ref Node: Manning's N: 0.0000	Ref Node: Manning's N: 0.0000
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Comment:

Pipe Link: P01A-South	Upstream	Downstream
Scenario: Scenario1	Invert: 23.08 ft	Invert: 22.77 ft
From Node: NBSouth	Manning's N: 0.0130	Manning's N: 0.1300
To Node: NB01A	Geometry: Rectangular	Geometry: Rectangular
Link Count: 1	Max Depth: 2.25 ft	Max Depth: 2.25 ft
Flow Direction: Both	Max Width: 8.75 ft	Max Width: 8.75 ft
Damping: 0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 67.00 ft	Bottom Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.20	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01B-Ramp D	Upstream	Downstream
Scenario: Scenario1	Invert: 22.20 ft	Invert: 22.10 ft
From Node: NB01B	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Ramp D	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 105.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P2.1-2.2	Upstream	Downstream
Scenario: Scenario1	Invert: 16.50 ft	Invert: 16.50 ft

From Node:	Pond 2.1	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Pond 2.2	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	145.00 ft	Op Table:		Op Table:	
FHWA Code:	0	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 ft	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link:	P2.2-01G	Upstream		Downstream	
Scenario:	Scenario1	Invert:	20.75 ft	Invert:	20.66 ft
From Node:	NB2.2	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	NB01G	Geometry:	Rectangular	Geometry:	Rectangular
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Max Width:	7.00 ft	Max Width:	7.00 ft
Damping:	0.0000 ft	Fillet:	0.00 ft	Fillet:	0.00 ft
Length:	180.00 ft	Bottom Clip			
FHWA Code:	0	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 ft	Top Clip			
Energy Switch:	Energy	Default:	0.00 ft	Default:	0.00 ft
		Op Table:		Op Table:	
		Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:

Pipe Link:	P2.3-2.4	Upstream		Downstream	
Scenario:	Scenario1	Invert:	16.50 ft	Invert:	16.50 ft
From Node:	Pond 2.3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	Pond 2.4	Geometry:	Circular	Geometry:	Circular
Link Count:	2	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	190.00 ft	Op Table:		Op Table:	
FHWA Code:	0	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	2.00	Top Clip			

Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 ft	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment:
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Pipe Link: P2.4-Noffsite	Upstream	Downstream
Scenario: Scenario1	Invert: 20.98 ft	Invert: 20.88 ft
From Node: NB2.4	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Noffsite	Geometry: Rectangular	Geometry: Rectangular
Link Count: 2	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping: 0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 88.00 ft	Bottom Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:
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Pipe Link: P2.5-2.3	Upstream	Downstream
Scenario: Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node: Pond 2.5	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Pond 2.3	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 250.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:
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Pipe Link: P2.7-2.6		Upstream	Downstream
Scenario:	Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node:	Pond 2.7	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Pond 2.6	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	185.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P2.8-2.5		Upstream	Downstream
Scenario:	Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node:	Pond 2.8	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Pond 2.5	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	175.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: PExist-2.7		Upstream	Downstream
Scenario:	Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node:	Exist Wet Pond	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Pond 2.7	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	250.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	



Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

<b>Pipe Link: Ramp D-I-95</b>		
	Upstream	Downstream
Scenario: Scenario1	Invert: 22.10 ft	Invert: 21.94 ft
From Node: Ramp D	Manning's N: 0.0120	Manning's N: 0.0120
To Node: I-95	Geometry: Circular	
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Positive	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 275.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

<b>Weir Link: W01B-03B</b>		
Scenario: Scenario1	Bottom Clip	
From Node: NB01B	Default: 0.00 ft	
To Node: NB03B	Op Table:	
Link Count: 1	Ref Node:	
Flow Direction: Both	Top Clip	
Damping: 0.0000 ft	Default: 0.00 ft	
Weir Type: Sharp Crested Vertical	Op Table:	
Geometry Type: Irregular	Ref Node:	
Invert: 24.46 ft	Discharge Coefficients	
Control Elevation: 24.46 ft	Weir Default: 2.800	
Cross Section: W01B-03B	Weir Table:	
	Orifice Default: 0.600	
	Orifice Table:	

Comment:

<b>Weir Link: WSMF2wet1A-01B</b>		
Scenario: Scenario1	Bottom Clip	
From Node: Borrow Pit	Default: 0.00 ft	

To Node:	NB01B	
Link Count:	1	Op Table:
Flow Direction:	Both	Ref Node:
Damping:	0.0000 ft	Top Clip
Weir Type:	Sharp Crested Vertical	Default: 0.00 ft
Geometry Type:	Rectangular	Op Table:
Invert:	24.86 ft	Ref Node:
Control Elevation:	24.86 ft	Discharge Coefficients
Max Depth:	0.60 ft	Weir Default: 3.200
Max Width:	0.60 ft	Weir Table:
Fillet:	0.00 ft	Orifice Default: 0.600
		Orifice Table:

Comment:

Weir Link: WSMF2wet1B-01B

Scenario:	Scenario1	Bottom Clip
From Node:	Borrow Pit	Default: 0.00 ft
To Node:	NB01B	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Sharp Crested Vertical	Op Table:
Geometry Type:	Rectangular	Ref Node:
Invert:	25.37 ft	Discharge Coefficients
Control Elevation:	25.37 ft	Weir Default: 3.200
Max Depth:	900.00 ft	Weir Table:
Max Width:	11.00 ft	Orifice Default: 0.600
Fillet:	0.00 ft	Orifice Table:

Comment:

Weir Link: WSouth-OFFSITE-S

Scenario:	Scenario1	Bottom Clip
From Node:	NBSouth	Default: 0.00 ft
To Node:	Noffsite-S	Op Table:
Link Count:	1	Ref Node:
Flow Direction:	Both	Top Clip
Damping:	0.0000 ft	Default: 0.00 ft
Weir Type:	Sharp Crested Vertical	Op Table:
Geometry Type:	Irregular	Ref Node:
Invert:	24.62 ft	Discharge Coefficients
Control Elevation:	24.62 ft	Weir Default: 2.800
Cross Section:	WSouth-OFFSITE	Weir Table:
		Orifice Default: 0.600
		Orifice Table:

Comment:

Weir Cross Section: W01B-03B

Scenario: Scenario1

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.97
1	4.83	25.55
2	9.65	25.20
3	14.48	25.23
4	19.31	25.56
5	24.13	25.80
6	28.96	25.78
7	33.79	25.74
8	38.61	25.71
9	43.44	25.68
10	48.27	25.66
11	53.09	25.78
12	57.92	25.93
13	62.75	26.03
14	67.57	26.02
15	72.40	25.98
16	77.23	26.00
17	82.05	26.03
18	86.88	25.97
19	91.71	25.88
20	96.53	26.07
21	101.36	25.98
22	106.18	25.67
23	111.01	25.54
24	115.84	25.57
25	120.66	25.30
26	125.49	25.18
27	130.11	25.17
28	134.73	25.11
29	139.35	25.03
30	143.97	24.99
31	148.59	25.07
32	153.21	25.13
33	157.83	25.19
34	162.45	25.25
35	167.07	25.29
36	171.69	25.48
37	176.31	26.15
38	180.93	27.31
39	185.55	27.77
40	190.51	28.96
41	195.46	29.22
42	200.41	29.38
43	205.37	29.47

Order	Station [ft]	Elevation [ft]
44	210.32	29.65
45	215.28	29.91
46	220.23	30.16
47	225.19	29.76
48	230.14	28.89
49	235.10	27.90
50	240.05	27.15
51	245.01	26.45
52	249.96	25.90
53	254.92	25.57
54	259.87	25.79
56	264.83	25.74
57	269.78	25.61
58	274.74	25.51
59	279.69	25.40
60	284.64	25.27
61	289.60	25.15
62	294.55	25.08
63	299.51	25.10
64	304.46	25.07
65	309.42	25.00
66	314.37	24.87
67	319.33	24.63
68	324.28	24.46
69	329.24	24.51
70	334.19	24.82
71	339.15	25.04
72	344.10	25.45
73	348.95	25.45
74	353.79	25.13
75	358.64	25.10
76	363.48	25.05
77	368.33	24.76
78	373.17	24.78
79	378.02	24.68
80	382.86	24.87
81	387.71	25.00
82	392.55	25.17
83	397.40	25.35
84	402.24	25.55
85	407.09	25.72
86	411.93	25.81
87	416.78	25.88
88	421.63	25.97
89	426.47	26.44
90	431.32	27.14
91	436.16	27.40
92	441.01	27.45
93	445.85	27.44

Order	Station [ft]	Elevation [ft]
94	450.70	27.33
95	455.51	27.32
96	460.33	27.44
97	465.14	27.20
98	469.95	26.40
99	474.77	26.25
100	479.58	25.85
101	484.40	25.59
102	489.21	25.53
103	494.02	25.31
104	498.84	25.33
105	503.65	25.58
106	508.47	25.80
107	513.28	26.02
108	518.10	26.09
109	522.91	25.97
110	527.72	25.77
111	532.54	25.67
112	537.35	25.80
113	542.17	25.84
114	546.98	25.68
115	551.80	25.56
116	556.61	25.64
117	561.42	25.66
118	566.27	25.54
119	571.11	25.43
120	575.95	25.80
121	580.80	26.24
122	585.64	26.37
123	590.48	26.42
124	595.33	26.52
125	600.17	26.20
126	605.01	25.88
127	609.86	25.58
128	614.70	25.29
129	619.54	25.11
130	624.39	25.03
131	629.23	25.00
132	634.07	24.99
133	638.92	24.97
134	643.80	24.94
135	648.68	24.91
136	653.56	24.86
137	658.44	24.82
138	663.32	24.79
139	668.20	24.77
140	673.09	24.81
141	677.97	25.02
142	682.85	25.26

Order	Station [ft]	Elevation [ft]
143	687.73	25.37
144	692.61	25.46
145	697.49	25.55
146	702.37	25.62
147	707.25	25.68
148	712.14	25.66
149	717.02	25.58
150	721.90	25.50
151	726.78	25.49
152	731.66	25.57
153	736.54	25.68
154	741.42	25.72
155	746.30	25.71
156	751.18	25.70
157	756.04	25.68
158	760.89	25.66
159	765.74	25.66
160	770.59	25.95
161	775.44	26.29
162	780.29	26.41
163	785.14	26.41
164	789.99	26.40
165	794.84	26.40
166	799.69	26.32
167	804.54	26.32
168	809.39	26.48
169	814.25	26.72
170	819.10	26.66
171	823.95	26.39
172	828.80	26.08
173	833.65	26.73
174	838.50	25.50
175	843.50	25.40
176	848.20	25.36
177	853.05	25.37
178	857.90	25.38
179	862.75	25.42
180	867.60	25.39
181	872.46	25.26
182	877.31	25.12
183	882.16	25.08
184	887.01	25.14
185	891.86	25.19
186	896.74	25.20
187	901.56	25.15
188	906.32	25.17
189	911.09	25.08
190	915.85	24.94
191	920.62	24.80

Order	Station [ft]	Elevation [ft]
192	925.38	24.63
193	930.14	24.96
194	934.91	25.16
195	939.67	25.18
196	944.43	25.25
197	949.20	25.35
198	953.96	25.45
199	958.73	25.31
200	963.49	25.88
201	968.25	27.02
202	973.02	28.09
203	977.78	28.47
204	982.55	28.17
205	987.31	27.41
206	992.07	26.58
207	996.99	25.99
208	1001.91	25.61
209	1006.83	25.50
210	1011.74	25.56
211	1016.66	25.46
212	1021.58	25.41
213	1026.50	25.39
214	1031.41	25.49
215	1036.33	25.52
216	1041.25	25.50
217	1046.17	25.44
218	1051.08	25.45
219	1056.00	25.74
220	1060.92	26.00
221	1065.84	26.18
222	1070.75	26.35
223	1075.67	26.39
224	1080.59	26.23
225	1085.51	26.02
226	1090.42	25.97
227	1095.34	25.79
228	1100.26	25.65
229	1105.18	25.82
230	1110.10	26.39
231	1115.01	27.03
232	1119.93	27.44
233	1124.85	27.65
234	1129.83	27.59
235	1134.82	27.45
236	1139.80	27.03
237	1144.79	26.51
238	1149.77	26.17
239	1154.76	26.14
240	1159.74	26.15

Order	Station [ft]	Elevation [ft]
241	1164.73	26.20
242	1169.72	26.28
243	1174.70	26.22
244	1179.69	26.08
245	1184.67	26.00
246	1189.66	26.13
247	1194.64	26.26
248	1199.63	26.14
249	1204.61	25.96
250	1209.60	25.77
251	1214.58	25.61
252	1219.57	25.40
253	1224.55	25.47
254	1229.54	25.52
255	1234.52	25.59
256	1239.51	25.70
257	1244.49	25.90
258	1249.48	26.08
259	1254.47	26.10
260	1259.45	26.04
261	1264.42	26.10
262	1269.39	26.50
263	1274.36	26.93
264	1279.33	27.12
265	1284.30	27.25
266	1289.27	27.23
267	1294.24	27.14
268	1299.21	26.93
269	1304.18	26.73
270	1309.15	26.74
271	1314.13	26.20
272	1319.10	26.05
273	1324.07	26.27
274	1329.04	26.35
275	1334.01	26.09
276	1338.98	25.80
277	1343.95	25.74
278	1348.92	25.63
279	1353.89	25.45
280	1358.86	25.04
281	1363.83	24.87
282	1368.80	25.06
283	1373.77	25.06
284	1378.74	25.33
285	1383.71	25.09
286	1388.68	24.96
287	1393.65	25.19
288	1398.62	25.92
289	1403.52	26.09



Order	Station [ft]	Elevation [ft]
290	1408.41	26.26
291	1413.30	26.27
292	1418.19	26.12
293	1423.08	26.13
294	1427.98	26.08
295	1432.87	25.97
296	1437.76	25.98
297	1442.65	26.24
298	1447.55	26.54
299	1452.44	26.41
300	1457.33	25.84
301	1462.23	25.32
302	1467.12	25.55
303	1472.01	26.46
304	1476.90	27.00
305	1481.79	27.21
306	1486.69	27.09
307	1491.58	26.91
308	1496.47	26.73
309	1501.37	26.57
310	1506.26	26.39
311	1511.15	26.27
312	1516.04	26.17
313	1520.94	26.19
314	1525.83	26.24
315	1530.78	26.09
316	1535.73	25.92
317	1540.69	25.87
318	1545.64	25.89
319	1550.59	26.39
320	1555.55	26.87
321	1560.50	27.08
322	1565.45	27.35
323	1570.41	27.55
324	1575.36	27.68
325	1580.31	27.79
326	1585.27	28.11
327	1590.22	28.28
328	1595.17	28.20
329	1600.13	28.68
330	1605.08	28.85
331	1610.03	28.63
332	1614.99	28.62
333	1619.94	28.72
334	1624.89	28.45
335	1629.84	28.71
336	1634.79	28.73
337	1639.74	28.60
338	1644.69	28.13

Order	Station [ft]	Elevation [ft]
339	1647.78	28.15
340	1652.35	28.36
341	1656.93	28.49
342	1661.51	28.36
343	1666.08	28.23
344	1670.66	28.10
345	1675.23	27.87
346	1679.78	27.73
347	1684.32	27.70
348	1688.86	27.70
349	1693.40	27.67
350	1697.94	27.95
351	1702.48	27.90
352	1707.02	28.03
353	1711.56	28.31
354	1716.11	28.28
355	1720.75	28.39
356	1725.40	28.49
357	1730.05	28.49
358	1734.69	28.54
359	1739.34	28.65
360	1743.99	28.51
361	1748.63	28.14
362	1753.28	28.04
363	1757.93	27.95
364	1762.89	28.04
365	1767.85	28.05
366	1772.81	28.20
367	1777.77	28.34
368	1782.74	28.70
369	1787.70	28.93
370	1792.66	28.91
371	1797.62	28.70
372	1802.30	28.37
373	1806.98	28.20
374	1811.66	28.22
375	1816.33	28.21
376	1821.01	28.22
377	1825.69	28.23
378	1830.37	28.11
379	1835.03	28.17
380	1839.70	28.49
381	1844.36	29.06
382	1849.02	29.07
383	1853.75	28.90
384	1858.49	28.63
385	1863.22	28.63
386	1867.95	28.58
387	1872.68	28.35

Order	Station [ft]	Elevation [ft]
388	1877.42	27.96
389	1882.15	27.72
390	1886.88	27.43
391	1891.61	27.24
392	1896.35	27.21
393	1901.08	27.20
394	1905.81	27.17
395	1910.48	27.22
396	1915.16	27.31
397	1919.83	27.36
398	1924.50	27.49
399	1929.18	27.68
400	1934.02	27.78
401	1938.86	27.82
402	1943.70	27.52
403	1948.55	27.28
404	1953.39	27.14
405	1958.23	27.40
406	1963.08	27.82
407	1967.92	28.02
408	1972.43	27.73
409	1976.95	27.15
410	1981.46	27.17
411	1985.97	27.16
412	1990.49	27.11
413	1995.00	27.06
414	1999.52	27.05
415	2004.27	27.05
416	2009.02	27.08
417	2013.77	27.16
418	2018.52	27.20
419	2023.27	27.16
420	2028.02	27.32
421	2032.77	27.80
422	2037.52	28.16
423	2042.27	28.33
424	2047.02	28.22
425	2051.77	28.17
426	2056.52	28.13
427	2061.45	28.02
428	2066.39	27.96
429	2071.33	27.82
430	2076.27	27.78
431	2081.20	27.73
432	2086.14	27.44
433	2091.08	27.36
434	2095.71	27.29
435	2100.34	27.23
436	2104.94	27.17

Order	Station [ft]	Elevation [ft]
437	2109.60	27.11
438	2114.23	27.00
439	2118.86	27.19
440	2123.49	27.50
441	2128.31	27.26
442	2133.14	27.17
443	2137.96	27.40
444	2142.78	27.60
445	2147.61	27.66
446	2152.43	27.46
447	2157.26	27.30
448	2162.08	27.14
449	2166.90	27.18
450	2171.73	27.26
451	2176.55	27.40
452	2181.38	27.86
453	2186.20	28.17
454	2191.02	28.29
455	2195.85	28.35
456	2200.67	28.72

Comment:

Weir Cross Section: WSouth-OFFSITE

Scenario: Scenario1

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	19.25	25.47
1	24.07	25.04
2	28.88	24.99
3	33.69	25.29
4	38.51	25.43
5	43.32	25.45
6	48.06	25.45
7	52.79	25.56
8	57.53	25.61
9	61.87	25.55
10	66.22	25.47
11	70.56	25.50
12	75.12	25.57
13	473.70	25.36
14	478.51	25.30
15	483.32	25.42
16	528.44	25.52

Order	Station [ft]	Elevation [ft]
17	533.26	25.44
18	538.08	25.35
19	542.93	25.39
20	547.79	25.45
21	552.65	25.45
22	557.51	25.50
23	562.36	25.25
24	566.43	25.10
25	570.49	24.95
26	574.56	24.97
27	578.62	24.98
28	582.69	25.01
29	587.13	25.02
30	591.57	25.12
31	596.02	25.29
32	600.46	25.45
33	604.90	25.61
34	614.21	25.56
35	619.07	25.43
36	623.93	25.30
37	628.79	25.17
38	633.65	25.05
39	638.51	25.06
40	643.36	25.23
41	648.22	25.17
42	653.08	25.06
43	657.94	25.48
44	766.40	25.61
45	771.20	25.31
46	776.00	25.30
47	780.80	25.48
48	785.60	25.55
49	789.90	25.47
50	794.19	25.35
51	798.49	25.24
52	802.93	25.17
53	807.36	25.07
54	811.80	25.04
55	816.23	25.10
56	820.67	25.24
57	825.11	25.41
58	903.28	25.61
59	907.96	25.41
60	912.64	25.26
61	917.32	25.09
62	922.00	24.93
63	926.68	24.90
64	930.16	24.90
65	933.63	24.92

Order	Station [ft]	Elevation [ft]
66	937.11	24.93
67	941.60	25.01
68	946.09	25.11
69	950.58	25.26
70	955.07	25.42
71	959.56	25.49
72	964.22	25.43
73	968.88	25.32
74	973.54	25.35
75	977.14	25.41
76	980.74	25.35
77	984.33	25.24
78	988.82	25.23
79	993.31	25.20
80	997.80	25.20
81	1002.29	25.18
82	1006.78	25.15
83	1011.64	25.12
84	1016.49	25.30
85	1021.35	25.56
86	1026.20	25.60
87	1031.06	25.50
88	1035.91	25.37
89	1040.77	25.39
90	1045.65	25.31
91	1050.54	25.24
92	1055.43	25.27
93	1060.32	25.33
94	1065.20	25.42
95	1070.09	25.34
96	1074.98	25.38
97	1079.43	25.36
98	1083.89	25.31
99	1088.34	25.27
100	1092.80	25.29
101	1097.22	25.39
102	1101.65	25.45
103	1106.07	25.48
104	1110.49	25.50
105	1114.92	25.44
106	1119.34	25.36
107	1123.76	25.28
108	1128.23	25.19
109	1132.70	25.08
110	1137.16	24.99
111	1141.63	24.91
112	1146.10	25.02
113	1150.57	25.19
114	1154.87	25.34

Order	Station [ft]	Elevation [ft]
115	1159.17	25.51
116	1163.47	25.61
117	1172.23	25.47
118	1176.70	25.20
119	1181.17	24.97
120	1185.63	24.86
121	1190.31	24.80
122	1195.00	24.85
123	1198.49	24.89
124	1201.99	25.05
125	1205.48	25.23
126	1209.63	25.26
127	1213.78	25.28
128	1217.93	25.06
129	1222.89	24.94
130	1227.85	24.85
131	1231.72	24.82
132	1235.59	24.83
133	1239.46	24.85
134	1243.26	24.89
135	1247.05	24.92
136	1250.85	25.09
137	1254.64	25.38
138	1271.59	25.55
139	1275.71	25.54
140	1279.83	25.60
141	1736.72	25.61
142	1741.15	25.54
143	1745.58	25.51
144	1750.00	25.52
145	1754.66	25.56
146	1788.17	25.60
147	1793.13	25.54
148	1798.04	25.52
149	1802.96	25.54
150	1807.87	25.57
151	1859.55	25.50
152	1863.74	25.41
153	1867.94	25.35
154	1872.14	25.33
155	1876.34	25.32
156	1880.54	25.31
157	1884.73	25.32
158	1889.68	25.32
159	1894.62	25.33
160	1899.57	25.42
161	1903.56	25.49
162	1907.55	25.47
163	1911.54	25.61

Order	Station [ft]	Elevation [ft]
164	1947.55	25.41
165	1951.76	25.29
166	1955.96	25.26
167	1960.17	25.24
168	2009.94	25.53
169	2014.75	25.41
170	2019.57	25.39
171	2024.38	25.28
172	2029.20	25.12
173	2034.02	25.00
174	2038.83	24.93
175	2043.65	24.86
176	2048.32	24.83
177	2052.99	24.78
178	2057.66	24.79
179	2062.33	24.79
180	2067.00	24.85
181	2071.67	24.95
182	2076.34	25.02
183	2081.01	24.98
184	2085.44	24.95
185	2089.87	24.86
186	2094.29	24.77
187	2098.72	24.69
188	2103.21	24.68
189	2107.70	24.68
190	2112.19	24.68
191	2116.69	24.69
192	2121.18	24.72
193	2125.67	24.78
194	2130.16	24.99
195	2134.65	25.32
196	2139.15	25.45
197	2143.57	25.17
198	2148.00	24.95
199	2152.42	24.93
200	2156.85	24.85
201	2161.58	24.79
202	2166.31	24.75
203	2171.04	24.74
204	2175.77	24.83
205	2180.50	25.04
206	2185.23	25.23
207	2189.84	25.22
208	2194.44	24.80
209	2199.05	24.70
210	2203.65	24.75
211	2208.26	24.71
212	2212.86	24.75



Order	Station [ft]	Elevation [ft]
213	2217.47	24.84
214	2222.07	24.94
215	2226.86	25.00
216	2231.65	25.06
217	2236.44	25.13
218	2241.23	25.51
219	2317.92	25.58
220	2322.73	25.52
221	2327.53	25.46
222	2332.34	25.41
223	2337.15	25.36
224	2341.95	25.31
225	2346.76	25.28
226	2351.56	25.28
227	2356.37	25.30
228	2361.17	25.34
229	2365.98	25.37
230	2370.78	25.42
231	2375.59	25.47
232	2400.56	25.61
233	2405.56	25.36
234	2410.48	25.32
235	2415.40	25.35
236	2420.33	25.35
237	2425.25	25.35
238	2430.17	25.35
239	2435.10	25.36
240	2440.02	25.37
241	2444.21	25.38
242	2448.39	25.39
243	2452.58	25.41
244	2456.77	25.41
245	2460.96	25.42
246	2465.27	25.39
247	2469.59	25.35
248	2473.90	25.32
249	2478.22	25.30
250	2482.53	25.29
251	2486.84	25.29
252	2491.16	25.28
253	2496.09	25.26
254	2501.01	25.25
255	2505.94	25.27
256	2510.87	25.30
257	2515.80	25.31
258	2520.72	25.28
259	2525.69	25.24
260	2530.65	25.18
261	2535.62	25.10

Order	Station [ft]	Elevation [ft]
262	2540.58	25.01
263	2545.55	24.92
264	2550.51	24.85
265	2555.48	24.80
266	2560.44	24.75
267	2565.40	24.71
268	2570.37	24.67
269	2575.33	24.64
270	2580.30	24.62
271	2585.03	24.63
272	2589.76	24.66
273	2594.50	24.74
274	2599.23	24.82
275	2603.96	25.19
276	2608.69	25.37
277	2613.43	25.21
278	2618.16	25.06
279	2622.65	25.07
280	2627.13	25.10
281	2631.62	25.21
282	2636.11	25.43
283	2666.87	25.51
284	2671.20	25.47
285	2675.52	25.49
286	2679.57	25.51
287	2683.63	25.56
288	2736.54	25.52
289	2741.22	25.46
290	2745.89	25.41
291	2750.57	25.38
292	2755.25	25.35
293	2759.92	25.33
294	2764.60	25.29
295	2769.27	25.26
296	2773.87	25.22
297	2778.46	25.18
298	2783.06	25.14
299	2787.65	25.12
300	2792.25	25.10
301	2796.84	25.08
302	2801.44	25.06
303	2806.03	25.04
304	2810.63	25.03
305	2815.22	25.02
306	2819.82	25.02
307	2824.41	25.03
308	2828.95	25.04
309	2833.48	25.07
310	2838.01	25.11

Order	Station [ft]	Elevation [ft]
311	2842.54	25.18
312	2847.29	25.24
313	2852.04	25.47
314	2879.45	25.42
315	2883.83	25.19
316	2888.22	25.06
317	2892.60	24.95
318	2896.99	24.87
319	2901.37	24.80
320	2906.00	24.77
321	2910.63	24.76
322	2915.26	24.77
323	2919.89	24.78
324	2924.09	24.82
325	2928.28	24.95
326	2932.48	25.13
327	2936.67	25.21
328	2940.59	25.12
329	2944.52	24.99
330	2948.44	24.84
331	2952.36	24.75
332	2957.04	24.76
333	2961.73	24.77
334	2966.42	24.83
335	2971.10	24.90
336	2975.79	25.00
337	2979.75	25.25
338	2983.71	25.39
339	2987.68	25.39
340	2991.64	25.28
341	2996.52	25.15
342	3001.40	25.03
343	3006.29	24.92
344	3011.17	24.83
345	3016.05	24.78
346	3020.94	24.80
347	3025.82	24.79
348	3030.70	24.80
349	3035.59	24.80
350	3040.40	24.80
351	3045.22	24.79
352	3050.04	24.78
353	3054.84	24.78
354	3059.67	24.78
355	3064.49	24.78
356	3069.31	24.79
357	3074.12	24.80
358	3078.93	24.80
359	3083.75	24.79

Order	Station [ft]	Elevation [ft]
360	3088.56	24.79
361	3093.37	24.80
362	3098.18	24.80
363	3102.99	24.84
364	3107.80	24.88
365	3112.62	24.90
366	3117.43	24.90
367	3122.24	24.90
368	3127.05	24.90
369	3131.58	24.89
370	3136.12	24.90
371	3140.65	24.90
372	3145.19	24.89
373	3149.72	24.91
374	3154.63	24.99
375	3159.54	25.09
376	3164.45	25.17
377	3169.37	25.27
378	3174.28	25.43
379	3179.64	25.36
380	3202.15	25.37
381	3206.67	25.43
382	3211.18	25.54
383	3224.98	25.55
384	3229.76	25.45
385	3234.54	25.35
386	3239.31	25.28
387	3243.73	25.23
388	3248.16	25.19
389	3252.58	25.16
390	3257.01	25.15
391	3261.43	25.15
392	3265.86	25.17
393	3270.28	25.18
394	3274.84	25.16
395	3279.39	25.15
396	3283.95	25.14
397	3288.50	25.14
398	3292.93	25.15
399	3297.36	25.16
400	3301.79	25.16
401	3306.66	25.15
402	3311.52	25.13
403	3316.39	25.11
404	3321.26	25.08
405	3326.12	25.06
406	3330.99	25.04
407	3335.88	25.01
408	3340.77	24.99

Order	Station [ft]	Elevation [ft]
409	3345.66	24.96
410	3350.55	24.93
411	3355.44	24.91
412	3360.33	24.93
413	3365.22	24.98
414	3370.11	25.25
415	3375.00	25.33
416	3379.23	25.24
417	3383.46	25.17
418	3387.69	25.17
419	3391.92	25.24
420	3396.14	25.45
421	3400.37	25.50
422	3405.11	25.39
423	3409.84	25.30
424	3414.58	25.28
425	3418.80	25.37
426	3423.02	25.51
427	3481.31	25.30
428	3485.85	25.13
429	3490.39	25.14
430	3494.93	25.24
431	3498.61	25.36
432	3502.29	25.47
433	3505.98	25.54
434	3510.10	25.54
435	3514.22	25.49
436	3518.34	25.61
437	3522.46	25.53
438	3526.58	25.49
439	3530.61	25.47
440	3534.65	25.44
441	3538.69	25.18
442	3543.32	25.12
443	3547.96	25.27
444	3552.59	25.44
445	3557.23	25.42
446	3561.76	25.31
447	3566.28	25.24
448	3570.81	25.22
449	3575.34	25.33
450	3579.60	25.25
451	3583.86	25.09
452	3588.11	25.23
453	3593.04	25.37
454	3597.97	25.39
455	3602.90	25.36
456	3607.83	25.36
457	3612.80	25.21

Order	Station [ft]	Elevation [ft]
458	3617.77	24.95
459	3622.74	24.80
460	3627.71	24.80
461	3632.68	24.94
462	3637.64	25.13
463	3642.61	25.60
464	3757.35	25.44
465	3761.65	25.22
466	3765.94	25.42
467	3815.98	25.57
468	3820.54	25.43
469	3825.09	25.35
470	3829.65	25.19
471	3834.44	25.22
472	3839.22	25.30
473	3844.01	25.40
474	3848.79	25.49
475	3853.58	25.51
476	3858.37	25.50
477	3863.15	25.58
478	4063.66	25.46
479	4068.54	25.33
480	4073.42	25.34
481	4078.29	25.26
482	4083.17	25.14
483	4088.05	25.03
484	4092.92	24.99
485	4097.80	25.00
486	4102.68	25.03
487	4107.56	25.08
488	4112.26	25.12
489	4116.97	25.18
490	4121.67	25.24
491	4126.38	25.31
492	4131.08	25.38
493	4135.79	25.43
494	4140.50	25.49
495	4145.20	25.55
496	4149.91	25.61

Comment:

Simulation: 3yr

Scenario: Scenario1

Run Date/Time: N/A

Program Version: N/A

## General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

## Output Time Increments

## Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 5.50 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

Simulation: Mean Annual

Scenario: Scenario1  
 Run Date/Time: 8/30/2020 4:49:35 PM  
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000



## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight: 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 5.00 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area: 100 ft2	Min Node Srf Area: 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

## Simulation: SJRWMD 25Y-24H

Scenario: Scenario1  
Run Date/Time: 8/30/2020 4:59:13 PM  
Program Version: ICPR4 4.04.00

## General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

## Output Time Increments

## Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 9.50 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: St Johns River Water Management District 25Y-24H

Simulation: Treatment Volume Recovery

Scenario: Scenario1  
 Run Date/Time: N/A  
 Program Version: N/A

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	40.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: No Rainfall
Link Optimizer Tol: 0.0001 ft	Rainfall Name:
	Rainfall Amount: 0.00 in
Edge Length Option: Automatic	Storm Duration: 0.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2 (2D):	Min Node Srf Area 100 ft2 (1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: Treatment Volume Recovery
------------------------------------

Sim	Node Name	Maximum Stage [ft]	Time to Maximum Stage [hrs]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
Mean Annual	Borrow Pit	25.65	14.3029	56.26	6.35
Mean Annual	Exist Wet Pond	25.37	13.4140	46.61	8.60
Mean Annual	I-95	23.56	15.4268	16.40	16.41
Mean Annual	NB01A	24.69	24.4590	62.65	7.03
Mean Annual	NB01B	24.27	15.3840	42.87	16.41
Mean Annual	NB01G	21.51	18.0169	7.90	8.16
Mean Annual	NB03B	24.94	12.9171	31.91	20.13
Mean Annual	NB2.2	21.58	18.0576	7.81	7.90
Mean Annual	NB2.4	21.48	18.0576	11.59	11.26
Mean Annual	NBSouth	24.70	24.5893	30.76	2.28
Mean Annual	Noffsite	15.00	0.0000	27.30	0.00
Mean Annual	Noffsite-S	24.50	0.0000	0.81	0.00
Mean Annual	Pond 2.1	25.03	17.6352	68.56	13.91
Mean Annual	Pond 2.2	24.99	17.8158	13.91	7.81
Mean Annual	Pond 2.3	25.41	19.7987	56.87	25.26
Mean Annual	Pond 2.4	25.41	19.7518	18.18	3.46
Mean Annual	Pond 2.5	25.42	19.8714	67.64	39.85
Mean Annual	Pond 2.6	25.31	13.6194	34.09	9.97
Mean Annual	Pond 2.7	25.34	13.5729	9.31	5.69
Mean Annual	Pond 2.8	25.42	20.1803	39.85	1.21
Mean Annual	Ramp D	24.05	15.3809	16.41	16.40
\$JRWMD 25Y-24H	Borrow Pit	26.22	13.4139	112.14	29.40
\$JRWMD 25Y-24H	Exist Wet Pond	26.45	13.6891	94.17	10.84
\$JRWMD 25Y-24H	I-95	24.17	16.0373	27.59	27.59
\$JRWMD 25Y-24H	NB01A	25.02	15.7714	132.30	31.45
\$JRWMD 25Y-24H	NB01B	25.03	16.0314	140.00	30.81
\$JRWMD 25Y-24H	NB01G	22.00	16.0314	17.14	17.29
\$JRWMD 25Y-24H	NB03B	25.12	12.5627	73.49	63.12
\$JRWMD 25Y-24H	NB2.2	22.12	16.0598	16.96	17.14

Sim	Node Name	Maximum Stage [ft]	Time to Maximum Stage [hrs]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
\$JRWMD 25Y-24H	NB2.4	21.94	15.7388	29.68	29.38
\$JRWMD 25Y-24H	NBSouth	24.91	15.4315	78.01	50.19
\$JRWMD 25Y-24H	Noffsite	15.00	0.0000	56.97	0.00
\$JRWMD 25Y-24H	Noffsite-S	24.50	0.0000	50.19	0.00
\$JRWMD 25Y-24H	Pond 2.1	26.11	15.8770	148.92	28.05
\$JRWMD 25Y-24H	Pond 2.2	25.90	16.4076	28.05	16.96
\$JRWMD 25Y-24H	Pond 2.3	26.36	15.1145	115.71	47.35
\$JRWMD 25Y-24H	Pond 2.4	26.32	15.2502	35.39	12.44
\$JRWMD 25Y-24H	Pond 2.5	26.40	15.4135	132.06	72.62
\$JRWMD 25Y-24H	Pond 2.6	26.31	14.6351	67.44	24.08
\$JRWMD 25Y-24H	Pond 2.7	26.37	14.2029	16.91	9.31
\$JRWMD 25Y-24H	Pond 2.8	26.40	15.6468	72.62	3.49
\$JRWMD 25Y-24H	Ramp D	24.73	15.9979	27.59	27.59

## Alternative 2 - Treatment Volume Recovery

## Existing Pond, Pond 2.6 & 2.7

1D Nodes - Aggregate

1

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	0.0000	0.00
Treatment Volume Recovery	0.2501	0.02
Treatment Volume Recovery	0.5003	0.04
Treatment Volume Recovery	0.7505	0.07
Treatment Volume Recovery	1.0010	0.10
Treatment Volume Recovery	1.2500	0.12
Treatment Volume Recovery	1.5011	0.15
Treatment Volume Recovery	1.7514	0.18
Treatment Volume Recovery	2.0004	0.21
Treatment Volume Recovery	2.2512	0.24
Treatment Volume Recovery	2.5014	0.26
Treatment Volume Recovery	2.7530	0.29
Treatment Volume Recovery	3.0014	0.32
Treatment Volume Recovery	3.2502	0.35
Treatment Volume Recovery	3.5030	0.37
Treatment Volume Recovery	3.7504	0.40
Treatment Volume Recovery	4.0006	0.43
Treatment Volume Recovery	4.2504	0.46
Treatment Volume Recovery	4.5010	0.48
Treatment Volume Recovery	4.7506	0.51
Treatment Volume Recovery	5.0018	0.54
Treatment Volume Recovery	5.2515	0.57
Treatment Volume Recovery	5.5019	0.59
Treatment Volume Recovery	5.7502	0.62
Treatment Volume Recovery	6.0017	0.65
Treatment Volume Recovery	6.2509	0.68
Treatment Volume Recovery	6.5013	0.70
Treatment Volume Recovery	6.7503	0.73
Treatment Volume Recovery	7.0024	0.76
Treatment Volume Recovery	7.2514	0.79
Treatment Volume Recovery	7.5008	0.81
Treatment Volume Recovery	7.7514	0.84
Treatment Volume Recovery	8.0016	0.87
Treatment Volume Recovery	8.2509	0.90
Treatment Volume Recovery	8.5011	0.92
Treatment Volume Recovery	8.7525	0.95
Treatment Volume Recovery	9.0004	0.98
Treatment Volume Recovery	9.2516	1.01
Treatment Volume Recovery	9.5003	1.03
Treatment Volume Recovery	9.7502	1.06
Treatment Volume Recovery	10.0019	1.09
Treatment Volume Recovery	10.2507	1.11

TV required = 3.87 ac-ft  
 1/2 TV = 1.94 ac-ft

hr 24 = 1.59 ac-ft  
 hr 30 = 1.97 ac-ft



Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	10.5019	1.14
Treatment Volume Recovery	10.7515	1.17
Treatment Volume Recovery	11.0003	1.19
Treatment Volume Recovery	11.2523	1.22
Treatment Volume Recovery	11.5016	1.25
Treatment Volume Recovery	11.7524	1.28
Treatment Volume Recovery	12.0011	1.30
Treatment Volume Recovery	12.2511	1.33
Treatment Volume Recovery	12.5011	1.36
Treatment Volume Recovery	12.7531	1.38
Treatment Volume Recovery	13.0015	1.41
Treatment Volume Recovery	13.2530	1.44
Treatment Volume Recovery	13.5023	1.46
Treatment Volume Recovery	13.7516	1.49
Treatment Volume Recovery	14.0002	1.52
Treatment Volume Recovery	14.2509	1.54
Treatment Volume Recovery	14.5011	1.57
Treatment Volume Recovery	14.7501	1.60
Treatment Volume Recovery	15.0012	1.62
Treatment Volume Recovery	15.2523	1.65
Treatment Volume Recovery	15.5007	1.68
Treatment Volume Recovery	15.7510	1.70
Treatment Volume Recovery	16.0010	1.73
Treatment Volume Recovery	16.2529	1.76
Treatment Volume Recovery	16.5013	1.78
Treatment Volume Recovery	16.7505	1.81
Treatment Volume Recovery	17.0002	1.84
Treatment Volume Recovery	17.2523	1.86
Treatment Volume Recovery	17.5013	1.89
Treatment Volume Recovery	17.7520	1.92
Treatment Volume Recovery	18.0005	1.94
Treatment Volume Recovery	18.2533	1.97
Treatment Volume Recovery	18.5000	2.00
Treatment Volume Recovery	18.7502	2.02
Treatment Volume Recovery	19.0001	2.05
Treatment Volume Recovery	19.2502	2.08
Treatment Volume Recovery	19.5020	2.10
Treatment Volume Recovery	19.7511	2.13
Treatment Volume Recovery	20.0034	2.15
Treatment Volume Recovery	20.2509	2.18
Treatment Volume Recovery	20.5001	2.21
Treatment Volume Recovery	20.7523	2.23

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	21.0004	2.26
Treatment Volume Recovery	21.2521	2.29
Treatment Volume Recovery	21.5019	2.31
Treatment Volume Recovery	21.7500	2.34
Treatment Volume Recovery	22.0005	2.36
Treatment Volume Recovery	22.2500	2.39
Treatment Volume Recovery	22.5017	2.42
Treatment Volume Recovery	22.7510	2.44
Treatment Volume Recovery	23.0019	2.47
Treatment Volume Recovery	23.2503	2.49
Treatment Volume Recovery	23.5005	2.52
Treatment Volume Recovery	23.7512	2.55
Treatment Volume Recovery	24.0002	2.57
Treatment Volume Recovery	24.2502	2.60
Treatment Volume Recovery	24.5001	2.62
Treatment Volume Recovery	24.7504	2.65
Treatment Volume Recovery	25.0008	2.68
Treatment Volume Recovery	25.2514	2.70
Treatment Volume Recovery	25.5023	2.73
Treatment Volume Recovery	25.7505	2.75
Treatment Volume Recovery	26.0022	2.78
Treatment Volume Recovery	26.2533	2.80
Treatment Volume Recovery	26.5011	2.83
Treatment Volume Recovery	26.7515	2.86
Treatment Volume Recovery	27.0001	2.88
Treatment Volume Recovery	27.2518	2.91
Treatment Volume Recovery	27.5017	2.93
Treatment Volume Recovery	27.7514	2.96
Treatment Volume Recovery	28.0014	2.98
Treatment Volume Recovery	28.2543	3.01
Treatment Volume Recovery	28.5021	3.04
Treatment Volume Recovery	28.7508	3.06
Treatment Volume Recovery	29.0021	3.09
Treatment Volume Recovery	29.2507	3.11
Treatment Volume Recovery	29.5008	3.14
Treatment Volume Recovery	29.7503	3.16
Treatment Volume Recovery	30.0007	3.19
Treatment Volume Recovery	30.2525	3.21
Treatment Volume Recovery	30.5022	3.24
Treatment Volume Recovery	30.7518	3.26
Treatment Volume Recovery	31.0002	3.29
Treatment Volume Recovery	31.2511	3.31

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	31.5002	3.34
Treatment Volume Recovery	31.7512	3.37
Treatment Volume Recovery	32.0036	3.39
Treatment Volume Recovery	32.2502	3.42
Treatment Volume Recovery	32.5001	3.44
Treatment Volume Recovery	32.7520	3.47
Treatment Volume Recovery	33.0001	3.49
Treatment Volume Recovery	33.2525	3.52
Treatment Volume Recovery	33.5022	3.54
Treatment Volume Recovery	33.7525	3.57
Treatment Volume Recovery	34.0003	3.59
Treatment Volume Recovery	34.2502	3.62
Treatment Volume Recovery	34.5005	3.64
Treatment Volume Recovery	34.7502	3.67
Treatment Volume Recovery	35.0015	3.69
Treatment Volume Recovery	35.2530	3.72
Treatment Volume Recovery	35.5001	3.74
Treatment Volume Recovery	35.7517	3.77
Treatment Volume Recovery	36.0005	3.79
Treatment Volume Recovery	36.2523	3.82
Treatment Volume Recovery	36.5015	3.84
Treatment Volume Recovery	36.7508	3.87
Treatment Volume Recovery	37.0006	3.89
Treatment Volume Recovery	37.2504	3.92
Treatment Volume Recovery	37.5003	3.94
Treatment Volume Recovery	37.7506	3.96
Treatment Volume Recovery	38.0007	3.99
Treatment Volume Recovery	38.2504	4.01
Treatment Volume Recovery	38.5023	4.04
Treatment Volume Recovery	38.7508	4.06
Treatment Volume Recovery	39.0014	4.09
Treatment Volume Recovery	39.2503	4.11
Treatment Volume Recovery	39.5002	4.14
Treatment Volume Recovery	39.7508	4.16
Treatment Volume Recovery	40.0007	4.19

## Pond 2.1 & 2.2

1D Nodes - Aggregate

1

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	0.0000	0.00
Treatment Volume Recovery	0.2501	0.01
Treatment Volume Recovery	0.5003	0.03
Treatment Volume Recovery	0.7505	0.04
Treatment Volume Recovery	1.0010	0.05
Treatment Volume Recovery	1.2500	0.07
Treatment Volume Recovery	1.5011	0.08
Treatment Volume Recovery	1.7514	0.10
Treatment Volume Recovery	2.0004	0.11
Treatment Volume Recovery	2.2512	0.12
Treatment Volume Recovery	2.5014	0.14
Treatment Volume Recovery	2.7530	0.15
Treatment Volume Recovery	3.0014	0.17
Treatment Volume Recovery	3.2502	0.18
Treatment Volume Recovery	3.5030	0.19
Treatment Volume Recovery	3.7504	0.21
Treatment Volume Recovery	4.0006	0.22
Treatment Volume Recovery	4.2504	0.24
Treatment Volume Recovery	4.5010	0.25
Treatment Volume Recovery	4.7506	0.27
Treatment Volume Recovery	5.0018	0.28
Treatment Volume Recovery	5.2515	0.29
Treatment Volume Recovery	5.5019	0.31
Treatment Volume Recovery	5.7502	0.32
Treatment Volume Recovery	6.0017	0.34
Treatment Volume Recovery	6.2509	0.35
Treatment Volume Recovery	6.5013	0.36
Treatment Volume Recovery	6.7503	0.38
Treatment Volume Recovery	7.0024	0.39
Treatment Volume Recovery	7.2514	0.41
Treatment Volume Recovery	7.5008	0.42
Treatment Volume Recovery	7.7514	0.43
Treatment Volume Recovery	8.0016	0.45
Treatment Volume Recovery	8.2509	0.46
Treatment Volume Recovery	8.5011	0.48
Treatment Volume Recovery	8.7525	0.49
Treatment Volume Recovery	9.0004	0.50
Treatment Volume Recovery	9.2516	0.52
Treatment Volume Recovery	9.5003	0.53
Treatment Volume Recovery	9.7502	0.55
Treatment Volume Recovery	10.0019	0.56
Treatment Volume Recovery	10.2507	0.57

TV required = 3.05 ac-ft  
1/2 TV = 1.53 ac-ft

hr 24 = 1.35 ac-ft  
hr 30 = 1.69 ac-ft

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	10.5019	0.59
Treatment Volume Recovery	10.7515	0.60
Treatment Volume Recovery	11.0003	0.62
Treatment Volume Recovery	11.2523	0.63
Treatment Volume Recovery	11.5016	0.65
Treatment Volume Recovery	11.7524	0.66
Treatment Volume Recovery	12.0011	0.67
Treatment Volume Recovery	12.2511	0.69
Treatment Volume Recovery	12.5011	0.70
Treatment Volume Recovery	12.7531	0.72
Treatment Volume Recovery	13.0015	0.73
Treatment Volume Recovery	13.2530	0.74
Treatment Volume Recovery	13.5023	0.76
Treatment Volume Recovery	13.7516	0.77
Treatment Volume Recovery	14.0002	0.79
Treatment Volume Recovery	14.2509	0.80
Treatment Volume Recovery	14.5011	0.81
Treatment Volume Recovery	14.7501	0.83
Treatment Volume Recovery	15.0012	0.84
Treatment Volume Recovery	15.2523	0.86
Treatment Volume Recovery	15.5007	0.87
Treatment Volume Recovery	15.7510	0.88
Treatment Volume Recovery	16.0010	0.90
Treatment Volume Recovery	16.2529	0.91
Treatment Volume Recovery	16.5013	0.93
Treatment Volume Recovery	16.7505	0.94
Treatment Volume Recovery	17.0002	0.96
Treatment Volume Recovery	17.2523	0.97
Treatment Volume Recovery	17.5013	0.98
Treatment Volume Recovery	17.7520	1.00
Treatment Volume Recovery	18.0005	1.01
Treatment Volume Recovery	18.2533	1.03
Treatment Volume Recovery	18.5000	1.04
Treatment Volume Recovery	18.7502	1.05
Treatment Volume Recovery	19.0001	1.07
Treatment Volume Recovery	19.2502	1.08
Treatment Volume Recovery	19.5020	1.10
Treatment Volume Recovery	19.7511	1.11
Treatment Volume Recovery	20.0034	1.12
Treatment Volume Recovery	20.2509	1.14
Treatment Volume Recovery	20.5001	1.15
Treatment Volume Recovery	20.7523	1.17

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	21.0004	1.18
Treatment Volume Recovery	21.2521	1.19
Treatment Volume Recovery	21.5019	1.21
Treatment Volume Recovery	21.7500	1.22
Treatment Volume Recovery	22.0005	1.24
Treatment Volume Recovery	22.2500	1.25
Treatment Volume Recovery	22.5017	1.27
Treatment Volume Recovery	22.7510	1.28
Treatment Volume Recovery	23.0019	1.29
Treatment Volume Recovery	23.2503	1.31
Treatment Volume Recovery	23.5005	1.32
Treatment Volume Recovery	23.7512	1.34
Treatment Volume Recovery	24.0002	1.35
Treatment Volume Recovery	24.2502	1.36
Treatment Volume Recovery	24.5001	1.38
Treatment Volume Recovery	24.7504	1.39
Treatment Volume Recovery	25.0008	1.41
Treatment Volume Recovery	25.2514	1.42
Treatment Volume Recovery	25.5023	1.43
Treatment Volume Recovery	25.7505	1.45
Treatment Volume Recovery	26.0022	1.46
Treatment Volume Recovery	26.2533	1.48
Treatment Volume Recovery	26.5011	1.49
Treatment Volume Recovery	26.7515	1.50
Treatment Volume Recovery	27.0001	1.52
Treatment Volume Recovery	27.2518	1.53
Treatment Volume Recovery	27.5017	1.55
Treatment Volume Recovery	27.7514	1.56
Treatment Volume Recovery	28.0014	1.57
Treatment Volume Recovery	28.2543	1.59
Treatment Volume Recovery	28.5021	1.60
Treatment Volume Recovery	28.7508	1.62
Treatment Volume Recovery	29.0021	1.63
Treatment Volume Recovery	29.2507	1.64
Treatment Volume Recovery	29.5008	1.66
Treatment Volume Recovery	29.7503	1.67
Treatment Volume Recovery	30.0007	1.69
Treatment Volume Recovery	30.2525	1.70
Treatment Volume Recovery	30.5022	1.71
Treatment Volume Recovery	30.7518	1.73
Treatment Volume Recovery	31.0002	1.74
Treatment Volume Recovery	31.2511	1.76

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	31.5002	1.77
Treatment Volume Recovery	31.7512	1.79
Treatment Volume Recovery	32.0036	1.80
Treatment Volume Recovery	32.2502	1.81
Treatment Volume Recovery	32.5001	1.83
Treatment Volume Recovery	32.7520	1.84
Treatment Volume Recovery	33.0001	1.85
Treatment Volume Recovery	33.2525	1.87
Treatment Volume Recovery	33.5022	1.88
Treatment Volume Recovery	33.7525	1.90
Treatment Volume Recovery	34.0003	1.91
Treatment Volume Recovery	34.2502	1.92
Treatment Volume Recovery	34.5005	1.94
Treatment Volume Recovery	34.7502	1.95
Treatment Volume Recovery	35.0015	1.97
Treatment Volume Recovery	35.2530	1.98
Treatment Volume Recovery	35.5001	1.99
Treatment Volume Recovery	35.7517	2.01
Treatment Volume Recovery	36.0005	2.02
Treatment Volume Recovery	36.2523	2.04
Treatment Volume Recovery	36.5015	2.05
Treatment Volume Recovery	36.7508	2.06
Treatment Volume Recovery	37.0006	2.08
Treatment Volume Recovery	37.2504	2.09
Treatment Volume Recovery	37.5003	2.11
Treatment Volume Recovery	37.7506	2.12
Treatment Volume Recovery	38.0007	2.13
Treatment Volume Recovery	38.2504	2.15
Treatment Volume Recovery	38.5023	2.16
Treatment Volume Recovery	38.7508	2.18
Treatment Volume Recovery	39.0014	2.19
Treatment Volume Recovery	39.2503	2.20
Treatment Volume Recovery	39.5002	2.22
Treatment Volume Recovery	39.7508	2.23
Treatment Volume Recovery	40.0007	2.24

Ponds 2.3, 2.4, 2.5 & 2.8

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	0.0000	0.00
Treatment Volume Recovery	0.2501	0.02
Treatment Volume Recovery	0.5003	0.04
Treatment Volume Recovery	0.7505	0.07
Treatment Volume Recovery	1.0010	0.10
Treatment Volume Recovery	1.2500	0.12
Treatment Volume Recovery	1.5011	0.15
Treatment Volume Recovery	1.7514	0.18
Treatment Volume Recovery	2.0004	0.21
Treatment Volume Recovery	2.2512	0.24
Treatment Volume Recovery	2.5014	0.26
Treatment Volume Recovery	2.7530	0.29
Treatment Volume Recovery	3.0014	0.32
Treatment Volume Recovery	3.2502	0.35
Treatment Volume Recovery	3.5030	0.37
Treatment Volume Recovery	3.7504	0.40
Treatment Volume Recovery	4.0006	0.43
Treatment Volume Recovery	4.2504	0.46
Treatment Volume Recovery	4.5010	0.48
Treatment Volume Recovery	4.7506	0.51
Treatment Volume Recovery	5.0018	0.54
Treatment Volume Recovery	5.2515	0.57
Treatment Volume Recovery	5.5019	0.59
Treatment Volume Recovery	5.7502	0.62
Treatment Volume Recovery	6.0017	0.65
Treatment Volume Recovery	6.2509	0.68
Treatment Volume Recovery	6.5013	0.70
Treatment Volume Recovery	6.7503	0.73
Treatment Volume Recovery	7.0024	0.76
Treatment Volume Recovery	7.2514	0.79
Treatment Volume Recovery	7.5008	0.81
Treatment Volume Recovery	7.7514	0.84
Treatment Volume Recovery	8.0016	0.87
Treatment Volume Recovery	8.2509	0.90
Treatment Volume Recovery	8.5011	0.92
Treatment Volume Recovery	8.7525	0.95
Treatment Volume Recovery	9.0004	0.98
Treatment Volume Recovery	9.2516	1.01
Treatment Volume Recovery	9.5003	1.03
Treatment Volume Recovery	9.7502	1.06
Treatment Volume Recovery	10.0019	1.09
Treatment Volume Recovery	10.2507	1.11

TV required = 5.39 ac-ft  
 1/2 TV = 2.70 ac-ft

hr 24 = 2.57 ac-ft  
 hr 30 = 3.19 ac-ft



Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	10.5019	1.14
Treatment Volume Recovery	10.7515	1.17
Treatment Volume Recovery	11.0003	1.19
Treatment Volume Recovery	11.2523	1.22
Treatment Volume Recovery	11.5016	1.25
Treatment Volume Recovery	11.7524	1.28
Treatment Volume Recovery	12.0011	1.30
Treatment Volume Recovery	12.2511	1.33
Treatment Volume Recovery	12.5011	1.36
Treatment Volume Recovery	12.7531	1.38
Treatment Volume Recovery	13.0015	1.41
Treatment Volume Recovery	13.2530	1.44
Treatment Volume Recovery	13.5023	1.46
Treatment Volume Recovery	13.7516	1.49
Treatment Volume Recovery	14.0002	1.52
Treatment Volume Recovery	14.2509	1.54
Treatment Volume Recovery	14.5011	1.57
Treatment Volume Recovery	14.7501	1.60
Treatment Volume Recovery	15.0012	1.62
Treatment Volume Recovery	15.2523	1.65
Treatment Volume Recovery	15.5007	1.68
Treatment Volume Recovery	15.7510	1.70
Treatment Volume Recovery	16.0010	1.73
Treatment Volume Recovery	16.2529	1.76
Treatment Volume Recovery	16.5013	1.78
Treatment Volume Recovery	16.7505	1.81
Treatment Volume Recovery	17.0002	1.84
Treatment Volume Recovery	17.2523	1.86
Treatment Volume Recovery	17.5013	1.89
Treatment Volume Recovery	17.7520	1.92
Treatment Volume Recovery	18.0005	1.94
Treatment Volume Recovery	18.2533	1.97
Treatment Volume Recovery	18.5000	2.00
Treatment Volume Recovery	18.7502	2.02
Treatment Volume Recovery	19.0001	2.05
Treatment Volume Recovery	19.2502	2.08
Treatment Volume Recovery	19.5020	2.10
Treatment Volume Recovery	19.7511	2.13
Treatment Volume Recovery	20.0034	2.15
Treatment Volume Recovery	20.2509	2.18
Treatment Volume Recovery	20.5001	2.21
Treatment Volume Recovery	20.7523	2.23

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	21.0004	2.26
Treatment Volume Recovery	21.2521	2.29
Treatment Volume Recovery	21.5019	2.31
Treatment Volume Recovery	21.7500	2.34
Treatment Volume Recovery	22.0005	2.36
Treatment Volume Recovery	22.2500	2.39
Treatment Volume Recovery	22.5017	2.42
Treatment Volume Recovery	22.7510	2.44
Treatment Volume Recovery	23.0019	2.47
Treatment Volume Recovery	23.2503	2.49
Treatment Volume Recovery	23.5005	2.52
Treatment Volume Recovery	23.7512	2.55
Treatment Volume Recovery	24.0002	2.57
Treatment Volume Recovery	24.2502	2.60
Treatment Volume Recovery	24.5001	2.62
Treatment Volume Recovery	24.7504	2.65
Treatment Volume Recovery	25.0008	2.68
Treatment Volume Recovery	25.2514	2.70
Treatment Volume Recovery	25.5023	2.73
Treatment Volume Recovery	25.7505	2.75
Treatment Volume Recovery	26.0022	2.78
Treatment Volume Recovery	26.2533	2.80
Treatment Volume Recovery	26.5011	2.83
Treatment Volume Recovery	26.7515	2.86
Treatment Volume Recovery	27.0001	2.88
Treatment Volume Recovery	27.2518	2.91
Treatment Volume Recovery	27.5017	2.93
Treatment Volume Recovery	27.7514	2.96
Treatment Volume Recovery	28.0014	2.98
Treatment Volume Recovery	28.2543	3.01
Treatment Volume Recovery	28.5021	3.04
Treatment Volume Recovery	28.7508	3.06
Treatment Volume Recovery	29.0021	3.09
Treatment Volume Recovery	29.2507	3.11
Treatment Volume Recovery	29.5008	3.14
Treatment Volume Recovery	29.7503	3.16
Treatment Volume Recovery	30.0007	3.19
Treatment Volume Recovery	30.2525	3.21
Treatment Volume Recovery	30.5022	3.24
Treatment Volume Recovery	30.7518	3.26
Treatment Volume Recovery	31.0002	3.29
Treatment Volume Recovery	31.2511	3.31

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	31.5002	3.34
Treatment Volume Recovery	31.7512	3.37
Treatment Volume Recovery	32.0036	3.39
Treatment Volume Recovery	32.2502	3.42
Treatment Volume Recovery	32.5001	3.44
Treatment Volume Recovery	32.7520	3.47
Treatment Volume Recovery	33.0001	3.49
Treatment Volume Recovery	33.2525	3.52
Treatment Volume Recovery	33.5022	3.54
Treatment Volume Recovery	33.7525	3.57
Treatment Volume Recovery	34.0003	3.59
Treatment Volume Recovery	34.2502	3.62
Treatment Volume Recovery	34.5005	3.64
Treatment Volume Recovery	34.7502	3.67
Treatment Volume Recovery	35.0015	3.69
Treatment Volume Recovery	35.2530	3.72
Treatment Volume Recovery	35.5001	3.74
Treatment Volume Recovery	35.7517	3.77
Treatment Volume Recovery	36.0005	3.79
Treatment Volume Recovery	36.2523	3.82
Treatment Volume Recovery	36.5015	3.84
Treatment Volume Recovery	36.7508	3.87
Treatment Volume Recovery	37.0006	3.89
Treatment Volume Recovery	37.2504	3.92
Treatment Volume Recovery	37.5003	3.94
Treatment Volume Recovery	37.7506	3.96
Treatment Volume Recovery	38.0007	3.99
Treatment Volume Recovery	38.2504	4.01
Treatment Volume Recovery	38.5023	4.04
Treatment Volume Recovery	38.7508	4.06
Treatment Volume Recovery	39.0014	4.09
Treatment Volume Recovery	39.2503	4.11
Treatment Volume Recovery	39.5002	4.14
Treatment Volume Recovery	39.7508	4.16
Treatment Volume Recovery	40.0007	4.19

## Alternative 3 - Calculations

**PIONEER TRAIL ALTERNATIVE 3  
PRE-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM:**

**Existing Pond**

Existing Pond			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA	PERVIOUS AREA (lawn/sod, fair cond.)	CURVE NUMBER
Pioneer Trail 1, 2, 3	14+00.00	44+00.00	13.31	13.31	2.20	0.00	11.11	0.00	0.00	0.00	0.00	98	100	84	86
Existing Pond			5.34	5.34	0.00	2.15	3.19	0.00	0.00	0.00	0.00	98	100	84	90
<b>SYSTEM TOTALS:</b>			<b>18.65</b>	<b>18.65</b>	<b>2.20</b>	<b>2.15</b>	<b>14.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>87.5</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**PIONEER TRAIL ALTERNATIVE 3  
POST-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM:**

**Existing Pond**

Existing Pond			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Pioneer Trail 1, 2, 3	14+00.00	44+00.00	13.31	13.31	5.94	0.00	7.37	0.00	0.00	0.00	0.00	98	100	84	90
Existing Pond			5.34	5.34	0.00	3.62	1.72	0.00	0.00	0.00	0.00	98	100	84	93
<b>SYSTEM TOTALS:</b>			<b>18.65</b>	<b>18.65</b>	<b>5.94</b>	<b>3.62</b>	<b>9.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>91.6</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**POLLUTION ABATEMENT VOLUME**

DATE

MADE BY:	DHR	10-Jun-20
CHK BY:		

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **EXISTING POND**

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 18.65 \text{ AC.} \quad = \quad \boxed{1.55} \text{ AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 5.94 \text{ AC.} \quad = \quad \boxed{1.24} \text{ AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **EXISTING POND**

	DATE	
MADE BY:	DHR	10-Jun-20
CHCK BY:		

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
 P = RAINFALL DEPTH (IN) = 9.5 IN (25YR-24HR)  
 S = (1000/CN)-10  
 V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 87  
 S = 1.43  
 Q<sub>PRE</sub> = 7.98 IN  
 V<sub>PRE</sub> = 12.40 AF

### POST-DEVELOPMENT

CN = 92  
 S = 0.92  
 Q<sub>POST</sub> = 8.48 IN  
 V<sub>POST</sub> = 13.18 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$13.18 - 12.40 = \text{0.78 AF}$$



**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **EXISTING POND**

DATE  
 MADE BY: DHR 18-Aug-20  
 CHCK BY:

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.37	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.36	Ft. (NAVD 88), per permit
29.00	Ft. (NAVD 88)

STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	5.34	17.45
Berm (Front)	27.50	4.39	12.58
<b>Design High Water</b>	<b>26.50</b>	<b>4.15</b>	<b>8.49</b>
Weir	24.94	3.76	2.33
Control Elevation	24.36	3.62	0.00
Grade Break	22.50	3.18	6.32
Pond Bottom	16.50	2.48	23.96

<-- Per ICPR, 25yr/24hr storm

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **EXISTING POND**

	DATE	
MADE BY:	DHR	10-Jun-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

18.65	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 4.96 AF < 23.96 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{23.96}{3.62} =$  6.62 < 8.00 FT. **O.K.**

PIONEER TRAIL ALTERNATIVE 3  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM:

Pond 3.1 and 3.2

Pond 3.1 and 3.2			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp F	601+34.95	612+64.40	2.52	2.52	0.00	0.00	2.52	0.00	0.00	0.00	0.00	98	100	84	84
Ramp E	505+76.14	518+00.00	10.49	10.49	0.05	0.00	10.44	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 3	44+00.00	47+00.00	0.49	0.49	0.00	0.00	0.49	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 4	47+00.00	48+38.32	0.22	0.22	0.00	0.00	0.22	0.00	0.00	0.00	0.00	98	100	84	84
Bridge Pioneer Trail	48+38.32	50+07.70	0.25	0.25	0.00	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	84
I-95	4676+71.17	4710+00.00	2.40	2.40	1.49	0.00	0.91	0.00	0.00	0.00	0.00	98	100	84	93
Pond 3.1			5.70	5.70	0.00	0.00	5.70	0.00	0.00	0.00	0.00	98	100	84	84
Pond 3.2			2.23	2.23	0.00	0.00	2.23	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>24.30</b>	<b>24.30</b>	<b>1.54</b>	<b>0.00</b>	<b>22.76</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>84.9</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

PIONEER TRAIL ALTERNATIVE 3  
Post-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 3.1 and 3.2

Pond 3.1 and 3.2			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp F	601+34.95	612+64.40	2.52	2.52	1.35	0.00	1.17	0.00	0.00	0.00	0.00	98	100	84	92
Ramp E	505+76.14	518+00.00	10.49	10.49	2.55	0.00	7.94	0.00	0.00	0.00	0.00	98	100	84	87
Pioneer Trail 3	44+00.00	47+00.00	0.49	0.49	0.34	0.00	0.15	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 4	47+00.00	48+38.32	0.22	0.22	0.16	0.00	0.06	0.00	0.00	0.00	0.00	98	100	84	94
Bridge Pioneer Trail	48+38.32	50+07.70	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
I-95	4676+71.17	4710+00.00	2.40	2.40	1.49	0.00	0.91	0.00	0.00	0.00	0.00	98	100	84	93
Pond 3.1			5.70	5.70	0.00	4.39	1.31	0.00	0.00	0.00	0.00	98	100	84	96
Pond 3.2			2.23	2.23	0.00	1.46	0.77	0.00	0.00	0.00	0.00	98	100	84	94
<b>SYSTEM TOTALS:</b>			<b>24.30</b>	<b>24.30</b>	<b>6.14</b>	<b>5.85</b>	<b>12.31</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>91.4</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**POLLUTION ABATEMENT VOLUME**

DATE

MADE BY:	DHR	10-Jun-20
CHK BY:		

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 3.1 and 3.2**

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad x \quad 24.30 \text{ AC.} \quad = \quad \text{2.03 AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad x \quad 6.14 \text{ AC.} \quad = \quad \text{1.28 AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 3.1 and 3.2**

DATE	
MADE BY:	DHR 10-Jun-20
CHCK BY:	

## REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN)-10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 84.9  
S = 1.78  
Q<sub>PRE</sub> = 7.65 IN  
V<sub>PRE</sub> = 15.50 AF

### POST-DEVELOPMENT

CN = 91.4  
S = 0.94  
Q<sub>POST</sub> = 8.46 IN  
V<sub>POST</sub> = 17.12 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$17.12 - 15.50 = \text{1.62 AF}$$

**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 3.1 and 3.2**

DATE	
MADE BY:	DHR 18-Aug-20
CHECK BY:	

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.74	Ft. (NAVD 88)
23.73	Ft. (NAVD 88)
23.74	Ft. (NAVD 88)
30.39	Ft. (NAVD 88)

POND 3.1			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	5.70	23.07
Berm (Front)	27.50	5.03	17.71
Design High Water	26.26	4.82	11.60
Control Elevation	23.74	4.39	0.00
Grade Break	22.50	4.18	5.31
Pond Bottom	16.50	3.71	29.32

<-- Per ICPR, 25yr/24hr storm

POND 3.2			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	2.23	8.22
Berm (Front)	27.50	1.83	6.19
Design High Water	26.22	1.70	3.92
Control Elevation	23.74	1.46	0.00
Grade Break	22.50	1.34	1.74
Pond Bottom	16.50	1.08	9.19

<-- Per ICPR, 25yr/24hr storm

POND 3.1 + POND 3.2			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	7.93	31.29
Berm (Front)	27.50	6.86	23.89
Weir	24.22	5.98	3.04
Control Elevation	23.74	5.85	0.00
Grade Break	22.50	5.52	7.05
Pond Bottom	16.50	4.79	38.52

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 3.1 and 3.2**

	DATE	
MADE BY:	DHR	10-Jun-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

24.30	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 6.46 AF < 38.52 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{38.52}{5.85} =$  6.58 < 8.00 FT. **O.K.**



PIONEER TRAIL ALTERNATIVE 3  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 3.3

Pond 3.3			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp G2	701+07.02	710+43.25	2.71	2.71	0.01	0.00	2.70	0.00	0.00	0.00	0.00	98	100	84	84
Ramp H2	808+92.50	822+27.25	7.80	7.80	0.00	0.00	7.80	0.00	0.00	0.00	0.00	98	100	84	84
Bridge Pioneer Trail	50+07.70	51+75.66	0.26	0.26	0.14	0.00	0.12	0.00	0.00	0.00	0.00	98	100	84	92
Pioneer Trail 4	51+75.66	58+20.00	1.25	1.25	0.69	0.00	0.56	0.00	0.00	0.00	0.00	98	100	84	92
I-95	4711+00.00	4740+00.00	2.86	2.86	2.28	0.00	0.58	0.00	0.00	0.00	0.00	98	100	84	95
Pond 3.3			6.02	6.02	0.00	0.00	6.02	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>20.90</b>	<b>20.90</b>	<b>3.12</b>	<b>0.00</b>	<b>17.78</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>86.1</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

PIONEER TRAIL ALTERNATIVE 3  
Post-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 3.3

Pond 3.3			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp G2	701+07.02	710+43.25	2.71	2.71	1.29	0.00	1.42	0.00	0.00	0.00	0.00	98	100	84	91
Ramp H2	808+92.50	822+27.25	7.80	7.80	2.23	0.00	5.57	0.00	0.00	0.00	0.00	98	100	84	88
Bridge Pioneer Trail	50+07.70	51+75.66	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pioneer Trail 4	51+75.66	58+20.00	1.25	1.25	0.78	0.00	0.47	0.00	0.00	0.00	0.00	98	100	84	93
I-95	4711+00.00	4740+00.00	2.86	2.86	2.86	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pond 3.3			6.02	6.02	0.00	4.84	1.18	0.00	0.00	0.00	0.00	98	100	84	97
<b>SYSTEM TOTALS:</b>			<b>20.90</b>	<b>20.90</b>	<b>7.42</b>	<b>4.84</b>	<b>8.64</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>92.7</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**POLLUTION ABATEMENT VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 3.3 - Alt 3**

	DATE	
MADE BY:	DHR	10-Jun-20
CHCK BY:		

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1)                      COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 20.90 \text{ AC.} \quad = \quad \text{1.74 AF}$$

2)                      COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 7.42 \text{ AC.} \quad = \quad \text{1.55 AF}$$

CONTROLLING CRITERIA:                     

**REQUIRED TREATMENT VOLUME:**                       AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =                       AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 3.3 - Alt 3**

DATE	
MADE BY:	DHR 10-Jun-20
CHCK BY:	

## REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN) - 10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 86.1  
S = 1.62  
Q<sub>PRE</sub> = 7.80 IN  
V<sub>PRE</sub> = 13.59 AF

### POST-DEVELOPMENT

CN = 92.7  
S = 0.79  
Q<sub>POST</sub> = 8.61 IN  
V<sub>POST</sub> = 15.00 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$15.00 - 13.59 =  AF$$

**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 3.3 - Alt 3**

DATE	
MADE BY:	DHR 19-Aug-20
CHCK BY:	

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.71	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
29.19	Ft. (NAVD 88)

STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	6.02	22.07
Berm (Front)	27.50	5.37	16.38
<b>Design High Water</b>	<b>26.49</b>	<b>5.20</b>	<b>11.10</b>
Weir	24.90	4.84	3.11
Control Elevation	24.29	4.84	0.00
Grade Break	22.50	4.55	8.40
Pond Bottom	16.50	4.09	34.76

<-- Per ICPR, 25yr/24hr storm

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 3.3 - Alt 3**

	DATE	
MADE BY:	DHR	10-Jun-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

10.00	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 2.66 AF < 34.76 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{34.76}{4.84} =$  7.19 < 8.00 FT. **O.K.**

PIONEER TRAIL ALTERNATIVE 3  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 3.4 and 3.6

Pond 3.4 and 3.6			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp I	900+00.00	917+82.40	5.38	5.38	0.00	0.00	5.38	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 3	44+00.00	47+28.84	0.48	0.48	0.32	0.00	0.16	0.00	0.00	0.00	0.00	98	100	84	93
Pioneer Trail 4	47+28.84	48+38.32	0.22	0.22	0.13	0.00	0.09	0.00	0.00	0.00	0.00	98	100	84	92
Bridge Pioneer Trail	48+38.32	50+07.70	0.26	0.26	0.14	0.00	0.12	0.00	0.00	0.00	0.00	98	100	84	92
I-95	4711+00.00	4740+00.00	2.55	2.55	2.49	0.00	0.06	0.00	0.00	0.00	0.00	98	100	84	98
Pond 3.4			2.90	2.90	0.00	0.00	2.90	0.00	0.00	0.00	0.00	98	100	84	84
Pond 3.6			1.24	1.24	0.00	0.00	1.24	0.00	0.00	0.00	0.00	98	100	84	84
<b>SYSTEM TOTALS:</b>			<b>13.03</b>	<b>13.03</b>	<b>3.08</b>	<b>0.00</b>	<b>9.95</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>87.3</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**PIONEER TRAIL ALTERNATIVE 3**  
**Post-DEVELOPMENT LAND-USE**

**DRAINAGE SYSTEM: Pond 3.4 and 3.6**

Pond 3.4 and 3.6			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Ramp I	900+00.00	917+82.40	5.38	5.38	1.17	0.00	4.21	0.00	0.00	0.00	0.00	98	100	84	87
Pioneer Trail 3	44+00.00	47+28.84	0.48	0.48	0.43	0.00	0.05	0.00	0.00	0.00	0.00	98	100	84	97
Pioneer Trail 4	47+28.84	48+38.32	0.22	0.22	0.21	0.00	0.01	0.00	0.00	0.00	0.00	98	100	84	97
Bridge Pioneer Trail	48+38.32	50+07.70	0.26	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
I-95	4711+00.00	4740+00.00	2.55	2.55	2.55	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pond 3.4			2.90	2.90	0.00	1.94	0.96	0.00	0.00	0.00	0.00	98	100	84	93
Pond 3.6			1.24	1.24	0.00	0.74	0.51	0.00	0.00	0.00	0.00	98	100	84	92
<b>SYSTEM TOTALS:</b>			<b>13.03</b>	<b>13.03</b>	<b>4.62</b>	<b>2.68</b>	<b>5.73</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>92.3</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.



**POLLUTION ABATEMENT VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 3.4 and 3.6**

	DATE	
MADE BY:	DHR	10-Jun-20
CHCK BY:		

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 13.03 \text{ AC.} \quad = \quad \text{1.09 AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 4.62 \text{ AC.} \quad = \quad \text{0.96 AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 3.4 and 3.6**

DATE	
MADE BY:	DHR 10-Jun-20
CHCK BY:	

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN)-10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 87.3  
S = 1.45  
Q<sub>PRE</sub> = 7.95 IN  
V<sub>PRE</sub> = 8.64 AF

### POST-DEVELOPMENT

CN = 92.3  
S = 0.84  
Q<sub>POST</sub> = 8.56 IN  
V<sub>POST</sub> = 9.30 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$9.30 - 8.64 =  AF$$

**POND STAGE / STORAGE**

DATE

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 3.4 and 3.6**

MADE BY:	DHR	18-Aug-20
CHCK BY:		

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

24.16	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
29.19	Ft. (NAVD 88)

POND 3.4			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	2.90	9.55
Berm (Front)	27.50	2.37	6.92
Design High Water	26.40	2.22	4.39
Control Elevation	24.29	1.94	0.00
Grade Break	22.50	1.71	3.27
Pond Bottom	16.50	1.35	12.81

<-- Per ICPR, 25yr/24hr storm

POND 3.6			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	1.24	3.82
Berm (Front)	27.50	0.96	2.72
Design High Water	26.43	0.88	1.73
Control Elevation	24.29	0.74	0.00
Grade Break	22.50	0.62	1.22
Pond Bottom	16.50	0.45	4.63

<-- Per ICPR, 25yr/24hr storm

POND 3.4 + POND 3.6			
STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	4.14	13.37
Berm (Front)	27.50	3.33	9.63
Weir	24.94	2.69	1.95
Control Elevation	24.29	2.68	0.00
Grade Break	22.50	2.33	4.48
Pond Bottom	16.50	1.80	17.45

REQUIRED TREATMENT VOLUME:  AF

REQUIRED TREATMENT VOLUME ELEVATION:  Ft.

PROPOSED WEIR ELEVATION:  Ft.

PROVIDED TREATMENT VOLUME:  AF

REQUIRED 25Y-24H ATTENUATION VOLUME  AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 3.4 and 3.6**

	DATE	
MADE BY:	DHR	10-Jun-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

10.00	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

THEREFORE:

PPV = DA C R RT / WS CF = 2.66 AF < 17.45 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{17.45}{2.68} =$  6.52 < 8.00 FT. **O.K.**

PIONEER TRAIL ALTERNATIVE 3  
PRE-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 3.5

Pond 3.5			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.25	0.25	0.08	0.00	0.17	0.00	0.00	0.00	0.00	98	100	84	88
Pioneer Trail 4	51+75.66	56+40.00	0.96	0.96	0.00	0.00	0.96	0.00	0.00	0.00	0.00	98	100	84	84
Pioneer Trail 5	56+40.00	76+79.94	5.80	5.80	0.34	0.00	5.46	0.00	0.00	0.00	0.00	98	100	84	85
I-95	4676+85.14	4708+74.50	1.13	1.13	0.54	0.00	0.59	0.00	0.00	0.00	0.00	98	100	84	91
Pond 3.5			2.91	2.91	0.52	0.00	2.39	0.00	0.00	0.00	0.00	98	100	84	87
<b>SYSTEM TOTALS:</b>			<b>11.05</b>	<b>11.05</b>	<b>1.48</b>	<b>0.00</b>	<b>9.57</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>85.9</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

PIONEER TRAIL ALTERNATIVE 3  
Post-DEVELOPMENT LAND-USE

DRAINAGE SYSTEM: Pond 3.5

Pond 3.5			TOTAL AREA (Ac.)	TOTAL ONSITE AREA (Ac.)	ONSITE IMPERVIOUS AREA (Ac.)	ONSITE WATER SURFACE AREA (Ac.)	ONSITE PERVIOUS AREA (Ac.)	TOTAL OFFSITE AREA (Ac.)	OFFSITE IMPERVIOUS AREA (Ac.)	OFFSITE WATER SURFACE AREA (Ac.)	OFFSITE PERVIOUS AREA (Ac.)	IMPERVIOUS AREA CN (pavement)	WATER SURFACE AREA CN	PERVIOUS AREA CN (lawn/sod, fair cond.)	CURVE NUMBER
Bridge Pioneer Trail	50+07.70	51+75.66	0.25	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.00	98	100	84	98
Pioneer Trail 4	51+75.66	56+40.00	0.96	0.96	0.71	0.00	0.25	0.00	0.00	0.00	0.00	98	100	84	94
Pioneer Trail 5	56+40.00	76+79.94	5.80	5.80	2.09	0.00	3.71	0.00	0.00	0.00	0.00	98	100	84	89
I-95	4676+85.14	4708+74.50	1.13	1.13	0.54	0.00	0.59	0.00	0.00	0.00	0.00	98	100	84	91
Pond 3.5			2.91	2.91	0.00	2.10	0.81	0.00	0.00	0.00	0.00	98	100	84	96
<b>SYSTEM TOTALS:</b>			<b>11.05</b>	<b>11.05</b>	<b>3.59</b>	<b>2.10</b>	<b>5.36</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>98</b>	<b>100</b>	<b>84</b>	<b>91.6</b>

Pervious Area CN*	<b>84</b>
Impervious Area CN*	<b>98</b>
Water Surface Area CN*	<b>100</b>

\*CN obtain using Soil Map and cross referencing to TR-55 based on the soil type.

**POLLUTION ABATEMENT VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 BASIN: **Pond 3.5 - Alt 3**

DATE	
MADE BY:	DHR 10-Jun-20
CHCK BY:	

TOTAL ON-SITE TREATMENT AREA:  AC.  
 IMPERVIOUS COVERAGE:  AC.  
 PERCENT IMPERVIOUS:  %

**REQUIRED TREATMENT VOLUME:**

UNDERLINE ONE:                      RETENTION                      **DETENTION**  
 UNDERLINE ONE:                      DRY    **WET**  
 UNDERLINE ONE:                      **ONLINE**                                      OFFLINE

1) COMPUTE RETENTION VOLUME FOR FIRST 1.0 INCH OF RUNOFF OVER PROJECT:

$$(1.0"/12) \quad \times \quad 11.05 \text{ AC.} \quad = \quad \text{0.92} \text{ AF}$$

2) COMPUTE 2.5 INCHES TIMES THE IMPERVIOUS AREA:

$$(2.5"/12) \quad \times \quad 3.59 \text{ AC.} \quad = \quad \text{0.75} \text{ AF}$$

CONTROLLING CRITERIA:

**REQUIRED TREATMENT VOLUME:**  AF

Additional Water Quality Treatment  
 Compute 50% additional Water Quality Storage Volume =  AF

# ATTENUATION VOLUME

PROJECT: **I-95 Pioneer Trail Interchange**  
BASIN: **Pond 3.5 - Alt 3**

DATE	
MADE BY:	DHR 10-Jun-20
CHCK BY:	

## 1. REQUIRED ATTENUATION VOLUME:

$$Q = (P - 0.2S)^2 / (P + 0.8S)$$

WHERE: Q = RUNOFF DEPTH (IN)  
P = RAINFALL DEPTH (IN) =  IN (25YR-24HR)  
S = (1000/CN) - 10  
V = RUNOFF VOLUME (AF)

### 25 YEAR - 24 HOUR PRE-DEVELOPMENT

CN = 85.9  
S = 1.64  
Q<sub>PRE</sub> = 7.78 IN  
V<sub>PRE</sub> = 7.16 AF

### POST-DEVELOPMENT

CN = 92  
S = 0.92  
Q<sub>POST</sub> = 8.48 IN  
V<sub>POST</sub> = 7.81 AF

### 25 YEAR - 24 HOUR (V<sub>POST</sub> - V<sub>PRE</sub>)

$$7.81 - 7.16 = \text{0.65 AF}$$



**POND STAGE / STORAGE**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 3.5 - Alt 3**

DATE  
 MADE BY: DHR 18-Aug-20  
 CHCK BY:

AVG. ESHWT ELEVATION:  
 STAIN LINE:  
 CS ELEV:  
 ROADWAY LOW POINT:

23.56	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
24.29	Ft. (NAVD 88)
29.00	Ft. (NAVD 88)

STAGE/STORAGE			
Stage	Elevation (Ft)	Area (Ac)	Incremental Volume (Ac-Ft)
Berm (Back)	28.50	2.91	9.99
Berm (Front)	27.50	2.46	7.31
Design High Water	26.42	2.34	4.81
Weir	24.90	2.16	1.38
Control Elevation	24.29	2.10	0.00
Grade Break	22.50	1.90	3.58
Pond Bottom	16.50	1.60	14.40

<-- Per ICPR, 25yr/24hr storm

REQUIRED TREATMENT VOLUME: 1.38 AF  
 REQUIRED TREATMENT VOLUME ELEVATION: 24.90 Ft.  
 PROPOSED WEIR ELEVATION: 24.90 Ft.  
 PROVIDED TREATMENT VOLUME: 1.38 AF  
 REQUIRED 25Y-24H ATTENUATION VOLUME 0.65 AF

**PERMANENT POOL VOLUME**

PROJECT: **I-95 Pioneer Trail Interchange**  
 POND: **Pond 3.5 - Alt 3**

	DATE	
MADE BY:	DHR	10-Jun-20
CHCK BY:		

**PERMANENT POOL VOLUME (PPV) = RT FR**

WHERE: PPV = PERMANENT POOL VOLUME (AF)  
 RT = RESIDENCE TIME (DAYS)  
 FR = AVERAGE FLOW RATE (AF/DAY)

FR = DA C R / WS

WHERE: DA = DRAINAGE AREA TO POND (AC) =  
 C = RUNOFF COEFFICIENT =  
 R = WET SEASON RAINFALL DEPTH (IN) =  
 WS = LENGTH OF WET SEASON (DAYS) =  
 CF = CONVERSION FACTOR =  
 RT = RESIDENCE TIME =

10.00	AC
0.75	
31	IN
153	DAYS
12	IN/FT
21	DAYS

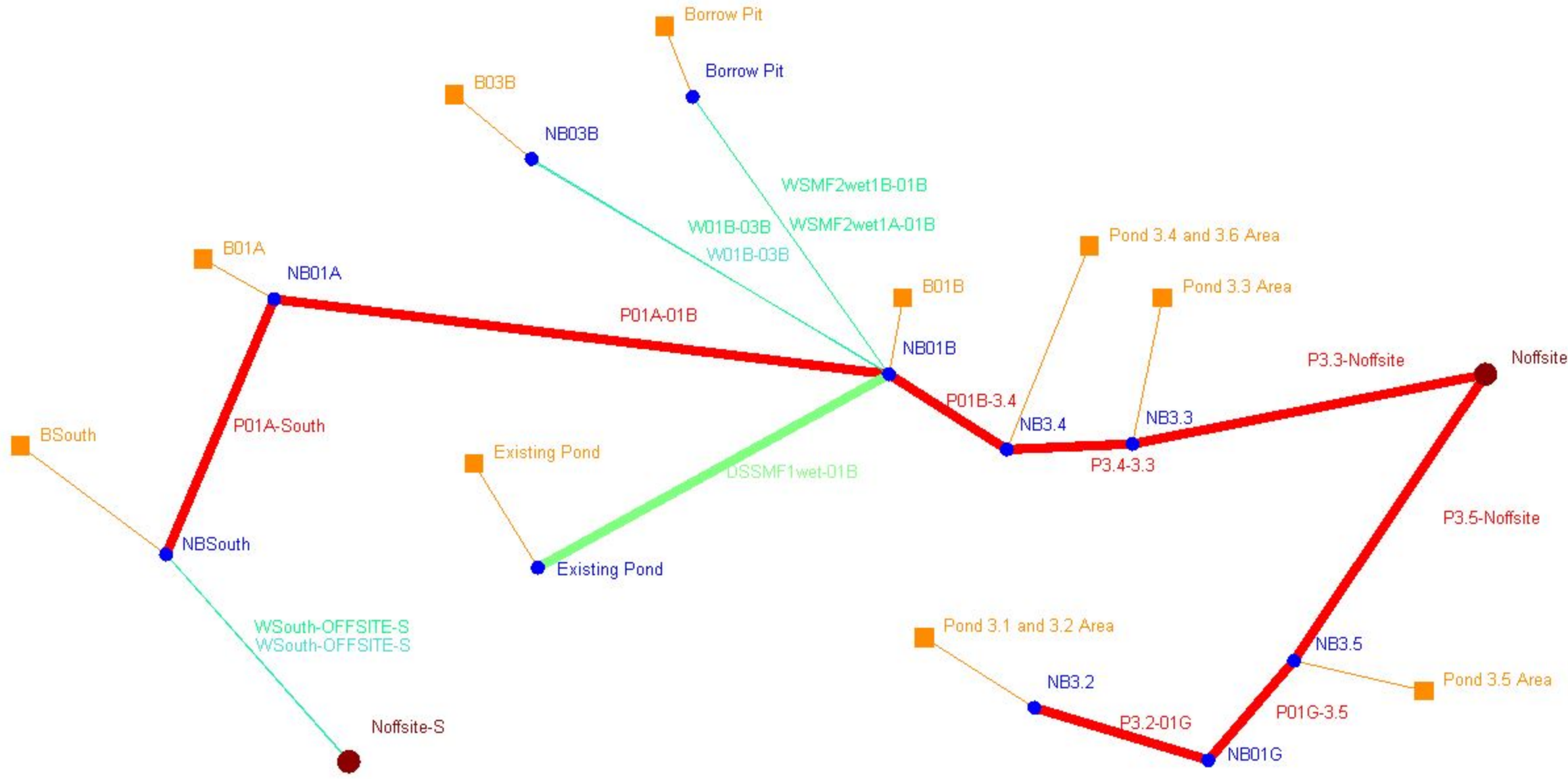
THEREFORE:

PPV = DA C R RT / WS CF = 2.66 AF < 14.40 AF **O.K.**

**CHECK MEAN DEPTH:**

$\frac{14.40}{2.10} =$  6.87 < 8.00 FT. **O.K.**

## Alternative 3 - ICPR Pre-Development



## Manual Basin: B01A

Scenario: Scenario1  
 Node: NB01A  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 53.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
56.6000	B01A	B01A			

Comment:

## Manual Basin: B01B

Scenario: Scenario1  
 Node: NB01B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 23.5000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
17.1000	B01B	B01B			

Comment:

## Manual Basin: B03B

Scenario: Scenario1  
 Node: NB03B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 29.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
24.0000	B03B	B03B			

Comment:

Manual Basin: BSouth

Scenario: Scenario1  
 Node: NBSouth  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 59.7000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
40.3000	BSouth	BSouth			

Comment:

Manual Basin: Borrow Pit

Scenario: Scenario1  
 Node: Borrow Pit  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 21.0800 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
27.6000	Borrow Pit	Borrow Pit			

Comment:

Manual Basin: Existing Pond

Scenario: Scenario1  
 Node: Existing Pond  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 12.6600 min  
 Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
18.6500	Existing Pond	Existing Pond			

Comment:

#### Manual Basin: Pond 3.1 and 3.2 Area

Scenario: Scenario1  
 Node: NB3.2  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
24.3000	Pond 3.1 and 3.2	Pond 3.1 and 3.2			

Comment:

#### Manual Basin: Pond 3.3 Area

Scenario: Scenario1  
 Node: NB3.3  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
20.9000	Pond 3.3	Pond 3.3			

Comment:

#### Manual Basin: Pond 3.4 and 3.6 Area

Scenario: Scenario1  
Node: NB3.4  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
13.0300	Pond 3.4 and 3.6	Pond 3.4 and 3.6			

Comment:

#### Manual Basin: Pond 3.5 Area

Scenario: Scenario1  
Node: NB3.5  
Hydrograph Method: NRCS Unit Hydrograph  
Infiltration Method: Curve Number  
Time of Concentration: 10.0000 min  
Max Allowable Q: 0.00 cfs  
Time Shift: 0.0000 hr  
Unit Hydrograph: UH256  
Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
11.0500	Pond 3.5	Pond 3.5			

Comment:

#### Curve Number: CN [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
B01A	B01A	89.0
B01B	B01B	87.0
B01E	B01E	77.0
B01F	B01F	84.0
B01G	B01G	84.0
B01H	B01H	77.0
B01I	B01I	77.0
B03B	B03B	83.0
BSouth	BSouth	82.0
Borrow Pit	Borrow Pit	93.0
Existing Pond	Existing Pond	87.5



Land Cover Zone	Soil Zone	Curve Number [dec]
Pond 3.1 and 3.2	Pond 3.1 and 3.2	84.9
Pond 3.3	Pond 3.3	86.1
Pond 3.4 and 3.6	Pond 3.4 and 3.6	87.3
Pond 3.5	Pond 3.5	85.9

Node: Borrow Pit

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.86 ft  
 Warning Stage: 27.86 ft

Stage [ft]	Area [ac]	Area [ft2]
1.86	5.5100	240016
24.86	8.2400	358934
27.86	8.9500	389862

Comment:

Node: Existing Pond

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.35 ft  
 Warning Stage: 27.86 ft

Stage [ft]	Area [ac]	Area [ft2]
18.60	0.8600	37462
24.36	2.1500	93654
27.36	2.8800	125453

Comment:

Node: NB01A

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 32.06 ft

Stage [ft]	Area [ac]	Area [ft2]
22.33	0.0010	44
23.33	0.1000	4356
24.33	15.5000	675180
25.33	31.9000	1389564
26.33	42.8000	1864368
27.33	52.1000	2269476
28.33	58.3000	2539548
29.33	60.8000	2648448
30.33	60.9000	2652804
31.33	61.0000	2657160
32.06	61.0000	2657160

Comment:

Node: NB01B

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 22.21 ft  
Warning Stage: 51.46 ft

Stage [ft]	Area [ac]	Area [ft2]
22.21	0.0010	44
22.61	0.0010	44
23.61	0.7000	30492
24.61	17.7000	771012
25.61	27.2000	1184832
27.61	37.8000	1646568
28.61	39.1000	1703196
29.61	40.1000	1746756
30.61	40.7000	1772892
31.61	40.8000	1777248
32.61	40.8000	1777248
33.61	40.8000	1777248
34.61	40.9000	1781604
35.61	40.9000	1781604
36.61	40.9000	1781604
37.61	41.0000	1785960
38.61	41.0000	1785960
39.61	41.0000	1785960
40.61	41.1000	1790316
41.61	41.1000	1790316
42.61	41.1000	1790316
43.61	41.2000	1794672
44.61	41.2000	1794672
45.61	41.2000	1794672

Stage [ft]	Area [ac]	Area [ft2]
46.61	41.3000	1799028
47.61	41.3000	1799028
48.61	41.3000	1799028
49.61	41.4000	1803384
50.61	41.4000	1803384
51.51	41.4000	1803384
26.61	34.2000	1489752

Comment:

Node: NB01G

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.66 ft  
Warning Stage: 29.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.66	0.0000	0
23.50	0.0000	0
24.00	0.0110	479
24.50	0.2020	8799
25.00	0.5920	25788
25.50	2.4520	106809
26.00	3.4590	150674
26.50	3.7560	163611
27.00	3.9920	173892
27.50	4.3170	188049
28.00	4.5720	199156
28.50	4.8340	210569
29.00	5.0980	222069
29.50	5.3660	233743
30.00	5.6360	245504

Comment:

Node: NB03B

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 24.06 ft  
Warning Stage: 32.01 ft

Stage [ft]	Area [ac]	Area [ft2]
23.19	0.0010	44
24.19	0.3000	13068
25.19	6.5000	283140
26.19	11.5000	500940
27.19	13.5000	588060
28.19	14.1000	614196
29.19	14.4000	627264
30.19	14.6000	635976
31.19	14.6000	635976
32.01	14.6000	635976

Comment:

Node: NB3.2

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.75 ft  
Warning Stage: 25.15 ft

Stage [ft]	Area [ac]	Area [ft2]
20.75	0.0000	0
25.15	0.0000	0

Comment:

Node: NB3.3

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 21.00 ft  
Warning Stage: 24.94 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
24.94	0.0000	0

Comment:

Node: NB3.4

Scenario: Scenario1

Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.09 ft  
 Warning Stage: 25.09 ft

Stage [ft]	Area [ac]	Area [ft2]
22.09	0.0000	0
25.09	0.0000	0

Comment:

Node: NB3.5

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.13 ft  
 Warning Stage: 25.86 ft

Stage [ft]	Area [ac]	Area [ft2]
20.13	0.0000	0
25.86	0.0000	0

Comment:

Node: NBSouth

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 33.67 ft

Stage [ft]	Area [ac]	Area [ft2]
22.39	0.0010	44
22.89	0.0143	623
23.39	0.0964	4199
23.89	1.2391	53975
24.39	12.3783	539199
24.89	22.2377	968674
25.39	27.0965	1180324
25.89	31.2305	1360401
26.39	33.3190	1451376
26.89	34.2642	1492549
27.39	34.5225	1503800
27.89	34.6654	1510025
28.39	34.7297	1512826

Stage [ft]	Area [ac]	Area [ft2]
28.89	34.7584	1514076
29.39	34.7687	1514525
29.89	34.7740	1514755
33.67	34.7740	1514755

Comment:

**Node: Noffsite**

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.00 ft  
 Warning Stage: 15.00 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	15.00
0	0	0	50.0000	15.00

Comment:

**Node: Noffsite-S**

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.50 ft  
 Warning Stage: 24.50 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	24.50
0	0	0	50.0000	24.50

Comment:

Drop Structure Link: DSSMF1wet-01B	Upstream Pipe	Downstream Pipe
Scenario: Scenario1	Invert: 22.50 ft	Invert: 22.30 ft
From Node: Existing Pond	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NB01B	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	

Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	10	Op Table:		Op Table:	
Pipe Count:	1	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	50.00 ft	Top Clip			
FHWA Code:	0	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 ft				
Energy Switch:	Energy				

Pipe Comment: 19"x30" HORIZONTAL ELLIPSE

Weir Component			
Weir:	1	Bottom Clip	
Weir Count:	1	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Sharp Crested Vertical	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	24.35 ft	Op Table:	
Control Elevation:	24.35 ft	Ref Node:	
Max Depth:	0.41 ft	Discharge Coefficients	
Max Width:	0.22 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component			
Weir:	2	Bottom Clip	
Weir Count:	2	Default:	0.00 ft
Weir Flow Direction:	Both	Op Table:	
Damping:	0.0000 ft	Ref Node:	
Weir Type:	Horizontal	Top Clip	
Geometry Type:	Rectangular	Default:	0.00 ft
Invert:	24.76 ft	Op Table:	
Control Elevation:	24.76 ft	Ref Node:	
Max Depth:	2.60 ft	Discharge Coefficients	
Max Width:	10.00 ft	Weir Default:	3.200
Fillet:	0.00 ft	Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Pipe Link: P01A-01B		Upstream	Downstream
Scenario:	Scenario1	Invert: 24.36 ft	Invert: 24.16 ft
From Node:	NB01A	Manning's N: 0.0130	Manning's N: 0.0130
To Node:	NB01B	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count:	5	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	130.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01A-South		Upstream	Downstream
Scenario:	Scenario1	Invert: 23.08 ft	Invert: 22.77 ft
From Node:	NBSouth	Manning's N: 0.0130	Manning's N: 0.1300
To Node:	NB01A	Geometry: Rectangular	Geometry: Rectangular
Link Count:	1	Max Depth: 2.25 ft	Max Depth: 2.25 ft
Flow Direction:	Both	Max Width: 8.75 ft	Max Width: 8.75 ft
Damping:	0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length:	67.00 ft	Bottom Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.20	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft	Top Clip	
Energy Switch:	Energy	Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01B-3.4		Upstream	Downstream
Scenario:	Scenario1	Invert: 22.20 ft	Invert: 22.10 ft
From Node:	NB01B	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB3.4	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	105.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:



Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000
Comment:		

Pipe Link: P01G-3.5	Upstream	Downstream
Scenario: Scenario1	Invert: 20.66 ft	Invert: 20.13 ft
From Node: NB01G	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NB3.5	Geometry: Rectangular	Geometry: Rectangular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping: 0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 180.00 ft	Bottom Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000
Comment:		

Pipe Link: P3.2-01G	Upstream	Downstream
Scenario: Scenario1	Invert: 20.75 ft	Invert: 20.66 ft
From Node: NB3.2	Manning's N: 0.0120	Manning's N: 0.0120
To Node: NB01G	Geometry: Rectangular	Geometry: Rectangular
Link Count: 1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction: Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping: 0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 180.00 ft	Bottom Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000
Comment:		

Pipe Link: P3.3-Noffsite		Upstream	Downstream
Scenario:	Scenario1	Invert: 21.94 ft	Invert: 20.84 ft
From Node:	NB3.3	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Noffsite	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	540.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P3.4-3.3		Upstream	Downstream
Scenario:	Scenario1	Invert: 22.09 ft	Invert: 21.94 ft
From Node:	NB3.4	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB3.3	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	275.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P3.5-Noffsite		Upstream	Downstream
Scenario:	Scenario1	Invert: 20.98 ft	Invert: 20.88 ft
From Node:	NB3.5	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Noffsite	Geometry: Rectangular	Geometry: Rectangular
Link Count:	1	Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction:	Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping:	0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length:	88.00 ft	Bottom Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:

Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

**Weir Link: W01B-03B**

Scenario: Scenario1	Bottom Clip
From Node: NB01B	Default: 0.00 ft
To Node: NB03B	Op Table:
Link Count: 1	Ref Node:
Flow Direction: Both	Top Clip
Damping: 0.0000 ft	Default: 0.00 ft
Weir Type: Sharp Crested Vertical	Op Table:
Geometry Type: Irregular	Ref Node:
Invert: 24.46 ft	Discharge Coefficients
Control Elevation: 24.46 ft	Weir Default: 2.800
Cross Section: W01B-03B	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Comment:

**Weir Link: WSMF2wet1A-01B**

Scenario: Scenario1	Bottom Clip
From Node: Borrow Pit	Default: 0.00 ft
To Node: NB01B	Op Table:
Link Count: 1	Ref Node:
Flow Direction: Both	Top Clip
Damping: 0.0000 ft	Default: 0.00 ft
Weir Type: Sharp Crested Vertical	Op Table:
Geometry Type: Rectangular	Ref Node:
Invert: 24.86 ft	Discharge Coefficients
Control Elevation: 24.86 ft	Weir Default: 3.200
Max Depth: 0.60 ft	Weir Table:
Max Width: 0.60 ft	Orifice Default: 0.600
Fillet: 0.00 ft	Orifice Table:

Comment:

**Weir Link: WSMF2wet1B-01B**

Scenario: Scenario1	Bottom Clip
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From Node: Borrow Pit	
To Node: NB01B	Default: 0.00 ft
Link Count: 1	Op Table:
Flow Direction: Both	Ref Node:
Damping: 0.0000 ft	Top Clip
Weir Type: Sharp Crested Vertical	Default: 0.00 ft
Geometry Type: Rectangular	Op Table:
Invert: 25.37 ft	Ref Node:
Control Elevation: 25.37 ft	Discharge Coefficients
Max Depth: 900.00 ft	Weir Default: 3.200
Max Width: 11.00 ft	Weir Table:
Fillet: 0.00 ft	Orifice Default: 0.600
	Orifice Table:

Comment:

**Weir Link: WSouth-OFFSITE-S**

Scenario: Scenario1	Bottom Clip
From Node: NBSouth	Default: 0.00 ft
To Node: Noffsite-S	Op Table:
Link Count: 1	Ref Node:
Flow Direction: Both	Top Clip
Damping: 0.0000 ft	Default: 0.00 ft
Weir Type: Sharp Crested Vertical	Op Table:
Geometry Type: Irregular	Ref Node:
Invert: 24.62 ft	Discharge Coefficients
Control Elevation: 24.62 ft	Weir Default: 2.800
Cross Section: WSouth-OFFSITE-S	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Comment:

**Weir Cross Section: W01B-03B**

Scenario: Scenario1  
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.97
1	4.83	25.55
2	9.65	25.20
3	14.48	25.23
4	19.31	25.56
5	24.13	25.80
6	28.96	25.78
7	33.79	25.74

Order	Station [ft]	Elevation [ft]
8	38.61	25.71
9	43.44	25.68
10	48.27	25.66
11	53.09	25.78
12	57.92	25.93
13	62.75	26.03
14	67.57	26.02
15	72.40	25.98
16	77.23	26.00
17	82.05	26.03
18	86.88	25.97
19	91.71	25.88
20	96.53	26.07
21	101.36	25.98
22	106.18	25.67
23	111.01	25.54
24	115.84	25.57
25	120.66	25.30
26	125.49	25.18
27	130.11	25.17
28	134.73	25.11
29	139.35	25.03
30	143.97	24.99
31	148.59	25.07
32	153.21	25.13
33	157.83	25.19
34	162.45	25.25
35	167.07	25.29
36	171.69	25.48
37	176.31	26.15
38	180.93	27.31
39	185.55	27.77
40	190.17	28.96
41	195.46	29.22
42	200.41	29.38
43	205.37	29.47
44	210.32	29.65
45	215.28	29.91
46	220.23	30.16
47	225.19	29.76
48	230.14	28.89
49	235.10	27.90
50	240.05	27.15
51	245.01	26.45
52	249.96	25.90
53	254.92	25.57
54	259.87	25.79
56	264.83	25.74
57	269.78	25.61

Order	Station [ft]	Elevation [ft]
58	274.74	25.51
59	279.69	25.40
60	284.64	25.27
61	289.60	25.15
62	294.55	25.08
63	299.51	25.10
64	304.46	25.07
65	309.42	25.00
66	314.37	24.87
67	319.33	24.63
68	324.28	24.46
69	329.24	24.51
70	334.19	24.82
71	339.15	25.04
72	344.10	25.45
73	348.95	25.45
74	353.79	25.13
75	358.64	25.10
76	363.48	25.05
77	368.33	24.76
78	373.17	24.78
79	378.02	24.68
80	382.86	24.87
81	387.71	25.00
82	392.55	25.17
83	397.40	25.35
84	402.24	25.55
85	407.09	25.72
86	411.93	25.81
87	416.78	25.88
88	421.63	25.97
89	426.47	26.44
90	431.32	27.14
91	436.16	27.40
92	441.01	27.45
93	445.85	27.44
94	450.70	27.33
95	455.51	27.32
96	460.33	27.44
97	465.14	27.20
98	469.95	26.40
99	474.77	26.25
100	479.58	25.85
101	484.40	25.59
102	489.21	25.53
103	494.02	25.31
104	498.84	25.33
105	503.65	25.58
106	508.47	25.80

Order	Station [ft]	Elevation [ft]
107	513.28	26.02
108	518.10	26.09
109	522.91	25.97
110	527.72	25.77
111	532.54	25.67
112	537.35	25.80
113	542.17	25.84
114	546.98	25.68
115	551.80	25.56
116	556.61	25.64
117	561.42	25.66
118	566.27	25.54
119	571.11	25.43
120	575.95	25.80
121	580.80	26.24
122	585.64	26.37
123	590.48	26.42
124	595.33	26.52
125	600.17	26.20
126	605.01	25.88
127	609.86	25.58
128	614.70	25.29
129	619.54	25.11
130	624.39	25.03
131	629.23	25.00
132	634.07	24.99
133	638.92	24.97
134	643.80	24.94
135	648.68	24.91
136	653.56	24.86
137	658.44	24.82
138	663.32	24.79
139	668.20	24.77
140	673.09	24.81
141	677.97	25.02
142	682.85	25.26
143	687.73	25.37
144	692.61	25.46
145	697.49	25.55
146	702.37	25.62
147	707.25	25.68
148	712.14	25.66
149	717.02	25.58
150	721.90	25.50
151	726.78	25.49
152	731.66	25.57
153	736.54	25.68
154	741.42	25.72
155	746.30	25.71

Order	Station [ft]	Elevation [ft]
156	751.18	25.70
157	756.04	25.68
158	760.89	25.66
159	765.74	25.66
160	770.59	25.95
161	775.44	26.29
162	780.29	26.41
163	785.14	26.41
164	789.99	26.40
165	794.84	26.40
166	799.69	26.32
167	804.54	26.32
168	809.39	26.48
169	814.25	26.72
170	819.10	26.66
171	823.95	26.39
172	828.80	26.08
173	833.65	26.73
174	838.50	25.50
175	843.50	25.40
176	848.20	25.36
177	853.05	25.37
178	857.90	25.38
179	862.75	25.42
180	867.60	25.39
181	872.46	25.26
182	877.31	25.12
183	882.16	25.08
184	887.01	25.14
185	891.86	25.19
186	896.74	25.20
187	901.56	25.15
188	906.32	25.17
189	911.09	25.08
190	915.85	24.94
191	920.62	24.80
192	925.38	24.63
193	930.14	24.96
194	934.91	25.16
195	939.67	25.18
196	944.43	25.25
197	949.20	25.35
198	953.96	25.45
199	958.73	25.31
200	963.49	25.88
201	968.25	27.02
202	973.02	28.09
203	977.78	28.47
204	982.55	28.17



Order	Station [ft]	Elevation [ft]
205	987.31	27.41
206	992.07	26.58
207	996.99	25.99
208	1001.91	25.61
209	1006.83	25.50
210	1011.74	25.56
211	1016.66	25.46
212	1021.58	25.41
213	1026.50	25.39
214	1031.41	25.49
215	1036.33	25.52
216	1041.25	25.50
217	1046.17	25.44
218	1051.08	25.45
219	1056.00	25.74
220	1060.92	26.00
221	1065.84	26.18
222	1070.75	26.35
223	1075.67	26.39
224	1080.59	26.23
225	1085.51	26.02
226	1090.42	25.97
227	1095.34	25.79
228	1100.26	25.65
229	1105.18	25.82
230	1110.10	26.39
231	1115.01	27.03
232	1119.93	27.44
233	1124.85	27.65
234	1129.83	27.59
235	1134.82	27.45
236	1139.80	27.03
237	1144.79	26.51
238	1149.77	26.17
239	1154.76	26.14
240	1159.74	26.15
241	1164.73	26.20
242	1169.72	26.28
243	1174.70	26.22
244	1179.69	26.08
245	1184.67	26.00
246	1189.66	26.13
247	1194.64	26.26
248	1199.63	26.14
249	1204.61	25.96
250	1209.60	25.77
251	1214.58	25.61
252	1219.57	25.40
253	1224.55	25.47

Order	Station [ft]	Elevation [ft]
254	1229.54	25.52
255	1234.52	25.59
256	1239.51	25.70
257	1244.49	25.90
258	1249.48	26.08
259	1254.47	26.10
260	1259.45	26.04
261	1264.42	26.10
262	1269.39	26.50
263	1274.36	26.93
264	1279.33	27.12
265	1284.30	27.25
266	1289.27	27.23
267	1294.24	27.14
268	1299.21	26.93
269	1304.18	26.73
270	1309.15	26.74
271	1314.13	26.20
272	1319.10	26.05
273	1324.07	26.27
274	1329.04	26.35
275	1334.01	26.09
276	1338.98	25.80
277	1343.95	25.74
278	1348.92	25.63
279	1353.89	25.45
280	1358.86	25.04
281	1363.83	24.87
282	1368.80	25.06
283	1373.77	25.06
284	1378.74	25.33
285	1383.71	25.09
286	1388.68	24.96
287	1393.65	25.19
288	1398.62	25.92
289	1403.52	26.09
290	1408.41	26.26
291	1413.30	26.27
292	1418.19	26.12
293	1423.08	26.13
294	1427.98	26.08
295	1432.87	25.97
296	1437.76	25.98
297	1442.65	26.24
298	1447.55	26.54
299	1452.44	26.41
300	1457.33	25.84
301	1462.23	25.32
302	1467.12	25.55

Order	Station [ft]	Elevation [ft]
303	1472.01	26.46
304	1476.90	27.00
305	1481.79	27.21
306	1486.69	27.09
307	1491.58	26.91
308	1496.47	26.73
309	1501.37	26.57
310	1506.26	26.39
311	1511.15	26.27
312	1516.04	26.17
313	1520.94	26.19
314	1525.83	26.24
315	1530.78	26.09
316	1535.73	25.92
317	1540.69	25.87
318	1545.64	25.89
319	1550.59	26.39
320	1555.55	26.87
321	1560.50	27.08
322	1565.45	27.35
323	1570.41	27.55
324	1575.36	27.68
325	1580.31	27.79
326	1585.27	28.11
327	1590.22	28.28
328	1595.17	28.20
329	1600.13	28.68
330	1605.08	28.85
331	1610.03	28.63
332	1614.99	28.62
333	1619.94	28.72
334	1624.89	28.45
335	1629.47	28.71
336	1634.05	28.73
337	1638.62	28.60
338	1643.20	28.13
339	1647.78	28.15
340	1652.35	28.36
341	1656.93	28.49
342	1661.51	28.36
343	1666.08	28.23
344	1670.66	28.10
345	1675.23	27.87
346	1679.78	27.73
347	1684.32	27.70
348	1688.86	27.70
349	1693.40	27.67
350	1697.94	27.95
351	1702.48	27.90

Order	Station [ft]	Elevation [ft]
352	1707.02	28.03
353	1711.56	28.31
354	1716.11	28.28
355	1720.75	28.39
356	1725.40	28.49
357	1730.05	28.49
358	1734.69	28.54
359	1739.34	28.65
360	1743.99	28.51
361	1748.63	28.14
362	1753.28	28.04
363	1757.93	27.95
364	1762.89	28.04
365	1767.85	28.05
366	1772.81	28.20
367	1777.77	28.34
368	1782.74	28.70
369	1787.70	28.93
370	1792.66	28.91
371	1797.62	28.70
372	1802.30	28.37
373	1806.98	28.20
374	1811.66	28.22
375	1816.33	28.21
376	1821.01	28.22
377	1825.69	28.23
378	1830.37	28.11
379	1835.03	28.17
380	1839.70	28.49
381	1844.36	29.06
382	1849.02	29.07
383	1853.75	28.90
384	1858.49	28.63
385	1863.22	28.63
386	1867.95	28.58
387	1872.68	28.35
388	1877.42	27.96
389	1882.15	27.72
390	1886.88	27.43
391	1891.61	27.24
392	1896.35	27.21
393	1901.08	27.20
394	1905.81	27.17
395	1910.48	27.22
396	1915.16	27.31
397	1919.83	27.36
398	1924.50	27.49
399	1929.18	27.68
400	1934.02	27.78

Order	Station [ft]	Elevation [ft]
401	1938.86	27.82
402	1943.70	27.52
403	1948.55	27.28
404	1953.39	27.14
405	1958.23	27.40
406	1963.08	27.82
407	1967.92	28.02
408	1972.43	27.73
409	1976.95	27.15
410	1981.46	27.17
411	1985.97	27.16
412	1990.49	27.11
413	1995.00	27.06
414	1999.52	27.05
415	2004.27	27.05
416	2009.02	27.08
417	2013.77	27.16
418	2018.52	27.20
419	2023.27	27.16
420	2028.02	27.32
421	2032.77	27.80
422	2037.52	28.16
423	2042.27	28.33
424	2047.02	28.22
425	2051.77	28.17
426	2056.52	28.13
427	2061.45	28.02
428	2066.39	27.96
429	2071.33	27.82
430	2076.27	27.78
431	2081.20	27.73
432	2086.14	27.44
433	2091.08	27.36
434	2095.71	27.29
435	2100.34	27.23
436	2104.94	27.17
437	2109.60	27.11
438	2114.23	27.00
439	2118.86	27.19
440	2123.49	27.50
441	2128.31	27.26
442	2133.14	27.17
443	2137.96	27.40
444	2142.78	27.60
445	2147.61	27.66
446	2152.43	27.46
447	2157.26	27.30
448	2162.08	27.14
449	2166.90	27.18

Order	Station [ft]	Elevation [ft]
450	2171.73	27.26
451	2176.55	27.40
452	2181.38	27.86
453	2186.20	28.17
454	2191.02	28.29
455	2195.85	28.35
456	2200.67	28.72

Comment:

Weir Cross Section: WSouth-OFFSITE-S

Scenario: Scenario1

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	19.25	25.47
1	24.07	25.04
2	28.88	24.99
3	33.69	25.29
4	38.51	25.43
5	43.32	25.45
6	48.06	25.45
7	52.79	25.56
8	57.53	25.61
9	61.87	25.55
10	66.22	25.47
11	70.56	25.50
12	75.12	25.57
13	473.70	25.36
14	478.51	25.30
15	483.32	25.42
16	528.44	25.52
17	533.26	25.44
18	538.08	25.35
19	542.93	25.39
20	547.79	25.45
21	552.65	25.45
22	557.51	25.50
23	562.36	25.25
24	566.43	25.10
25	570.49	24.95
26	574.56	24.97
27	578.62	24.98
28	582.69	25.01
29	587.13	25.02

Order	Station [ft]	Elevation [ft]
30	591.57	25.12
31	596.02	25.29
32	600.46	25.45
33	604.90	25.61
34	614.21	25.56
35	619.07	25.43
36	623.93	25.30
37	628.79	25.17
38	633.65	25.05
39	638.51	25.06
40	643.36	25.23
41	648.22	25.17
42	653.08	25.06
43	657.94	25.48
44	766.40	25.61
45	771.20	25.31
46	776.00	25.30
47	780.80	25.48
48	785.60	25.55
49	789.90	25.47
50	794.19	25.35
51	798.49	25.24
52	802.93	25.17
53	807.36	25.07
54	811.80	25.04
55	816.23	25.10
56	820.67	25.24
57	825.11	25.41
58	903.28	25.61
59	907.96	25.41
60	912.64	25.26
61	917.32	25.09
62	922.00	24.93
63	926.68	24.90
64	930.16	24.90
65	933.63	24.92
66	937.11	24.93
67	941.60	25.01
68	946.09	25.11
69	950.58	25.26
70	955.07	25.42
71	959.56	25.49
72	964.22	25.43
73	968.88	25.32
74	973.54	25.35
75	977.14	25.41
76	980.74	25.35
77	984.33	25.24
78	988.82	25.23

Order	Station [ft]	Elevation [ft]
79	993.31	25.20
80	997.80	25.20
81	1002.29	25.18
82	1006.78	25.15
83	1011.64	25.12
84	1016.49	25.30
85	1021.35	25.56
86	1026.20	25.60
87	1031.06	25.50
88	1035.91	25.37
89	1040.77	25.39
90	1045.65	25.31
91	1050.54	25.24
92	1055.43	25.27
93	1060.32	25.33
94	1065.20	25.42
95	1070.09	25.34
96	1074.98	25.38
97	1079.43	25.36
98	1083.89	25.31
99	1088.34	25.27
100	1092.80	25.29
101	1097.22	25.39
102	1101.65	25.45
103	1106.07	25.48
104	1110.49	25.50
105	1114.92	25.44
106	1119.34	25.36
107	1123.76	25.28
108	1128.23	25.19
109	1132.70	25.08
110	1137.16	24.99
111	1141.63	24.91
112	1146.10	25.02
113	1150.57	25.19
114	1154.87	25.34
115	1159.17	25.51
116	1163.47	25.61
117	1172.23	25.47
118	1176.70	25.20
119	1181.17	24.97
120	1185.63	24.86
121	1190.31	24.80
122	1195.00	24.85
123	1198.49	24.89
124	1201.99	25.05
125	1205.48	25.23
126	1209.63	25.26
127	1213.78	25.28



Order	Station [ft]	Elevation [ft]
128	1217.93	25.06
129	1222.89	24.94
130	1227.85	24.85
131	1231.72	24.82
132	1235.59	24.83
133	1239.46	24.85
134	1243.26	24.89
135	1247.05	24.92
136	1250.85	25.09
137	1254.64	25.38
138	1271.59	25.55
139	1275.71	25.54
140	1279.83	25.60
141	1736.72	25.61
142	1741.15	25.54
143	1745.58	25.51
144	1750.00	25.52
145	1754.66	25.56
146	1788.17	25.60
147	1793.13	25.54
148	1798.04	25.52
149	1802.96	25.54
150	1807.87	25.57
151	1859.55	25.50
152	1863.74	25.41
153	1867.94	25.35
154	1872.14	25.33
155	1876.34	25.32
156	1880.54	25.31
157	1884.73	25.32
158	1889.68	25.32
159	1894.62	25.33
160	1899.57	25.42
161	1903.56	25.49
162	1907.55	25.47
163	1911.54	25.61
164	1947.55	25.41
165	1951.76	25.29
166	1955.96	25.26
167	1960.17	25.24
168	2009.94	25.53
169	2014.75	25.41
170	2019.57	25.39
171	2024.38	25.28
172	2029.20	25.12
173	2034.02	25.00
174	2038.83	24.93
175	2043.65	24.86
176	2048.32	24.83

Order	Station [ft]	Elevation [ft]
177	2052.99	24.78
178	2057.66	24.79
179	2062.33	24.79
180	2067.00	24.85
181	2071.67	24.95
182	2076.34	25.02
183	2081.01	24.98
184	2085.44	24.95
185	2089.87	24.86
186	2094.29	24.77
187	2098.72	24.69
188	2103.21	24.68
189	2107.70	24.68
190	2112.19	24.68
191	2116.69	24.69
192	2121.18	24.72
193	2125.67	24.78
194	2130.16	24.99
195	2134.65	25.32
196	2139.15	25.45
197	2143.57	25.17
198	2148.00	24.95
199	2152.42	24.93
200	2156.85	24.85
201	2161.58	24.79
202	2166.31	24.75
203	2171.04	24.74
204	2175.77	24.83
205	2180.50	25.04
206	2185.23	25.23
207	2189.84	25.22
208	2194.44	24.80
209	2199.05	24.70
210	2203.65	24.75
211	2208.26	24.71
212	2212.86	24.75
213	2217.47	24.84
214	2222.07	24.94
215	2226.86	25.00
216	2231.65	25.06
217	2236.44	25.13
218	2241.23	25.51
219	2317.92	25.58
220	2322.73	25.52
221	2327.53	25.46
222	2332.34	25.41
223	2337.15	25.36
224	2341.95	25.31
225	2346.76	25.28

Order	Station [ft]	Elevation [ft]
226	2351.56	25.28
227	2356.37	25.30
228	2361.17	25.34
229	2365.98	25.37
230	2370.78	25.42
231	2375.59	25.47
232	2400.56	25.61
233	2405.56	25.36
234	2410.48	25.32
235	2415.40	25.35
236	2420.33	25.35
237	2425.25	25.35
238	2430.17	25.35
239	2435.10	25.36
240	2440.02	25.37
241	2444.21	25.38
242	2448.39	25.39
243	2452.58	25.41
244	2456.77	25.41
245	2460.96	25.42
246	2465.27	25.39
247	2469.59	25.35
248	2473.90	25.32
249	2478.22	25.30
250	2482.53	25.29
251	2486.84	25.29
252	2491.16	25.28
253	2496.09	25.26
254	2501.01	25.25
255	2505.94	25.27
256	2510.87	25.30
257	2515.80	25.31
258	2520.72	25.28
259	2525.69	25.24
260	2530.65	25.18
261	2535.62	25.10
262	2540.58	25.01
263	2545.55	24.92
264	2550.51	24.85
265	2555.48	24.80
266	2560.44	24.75
267	2565.40	24.71
268	2570.37	24.67
269	2575.33	24.64
270	2580.30	24.62
271	2585.03	24.63
272	2589.76	24.66
273	2594.50	24.74
274	2599.23	24.82

Order	Station [ft]	Elevation [ft]
275	2603.96	25.19
276	2608.69	25.37
277	2613.43	25.21
278	2618.16	25.06
279	2622.65	25.07
280	2627.13	25.10
281	2631.62	25.21
282	2636.11	25.43
283	2666.87	25.51
284	2671.20	25.47
285	2675.52	25.49
286	2679.57	25.51
287	2683.63	25.56
288	2736.54	25.52
289	2741.22	25.46
290	2745.89	25.41
291	2750.57	25.38
292	2755.25	25.35
293	2759.92	25.33
294	2764.60	25.29
295	2769.27	25.26
296	2773.87	25.22
297	2778.46	25.18
298	2783.06	25.14
299	2787.65	25.12
300	2792.25	25.10
301	2796.84	25.08
302	2801.44	25.06
303	2806.03	25.04
304	2810.63	25.03
305	2815.22	25.02
306	2819.82	25.02
307	2824.41	25.03
308	2828.95	25.04
309	2833.48	25.07
310	2838.01	25.11
311	2842.54	25.18
312	2847.29	25.24
313	2852.04	25.47
314	2879.45	25.42
315	2883.83	25.19
316	2888.22	25.06
317	2892.60	24.95
318	2896.99	24.87
319	2901.37	24.80
320	2906.00	24.77
321	2910.63	24.76
322	2915.26	24.77
323	2919.89	24.78

Order	Station [ft]	Elevation [ft]
324	2924.09	24.82
325	2928.28	24.95
326	2932.48	25.13
327	2936.67	25.21
328	2940.59	25.12
329	2944.52	24.99
330	2948.44	24.84
331	2952.36	24.75
332	2957.04	24.76
333	2961.73	24.77
334	2966.42	24.83
335	2971.10	24.90
336	2975.79	25.00
337	2979.75	25.25
338	2983.71	25.39
339	2987.68	25.39
340	2991.64	25.28
341	2996.52	25.15
342	3001.40	25.03
343	3006.29	24.92
344	3011.17	24.83
345	3016.05	24.78
346	3020.94	24.80
347	3025.82	24.79
348	3030.70	24.80
349	3035.59	24.80
350	3040.40	24.80
351	3045.22	24.79
352	3050.04	24.78
353	3054.84	24.78
354	3059.67	24.78
355	3064.49	24.78
356	3069.31	24.79
357	3074.12	24.80
358	3078.93	24.80
359	3083.75	24.79
360	3088.56	24.79
361	3093.37	24.80
362	3098.18	24.80
363	3102.99	24.84
364	3107.80	24.88
365	3112.62	24.90
366	3117.43	24.90
367	3122.24	24.90
368	3127.05	24.90
369	3131.58	24.89
370	3136.12	24.90
371	3140.65	24.90
372	3145.19	24.89

Order	Station [ft]	Elevation [ft]
373	3149.72	24.91
374	3154.63	24.99
375	3159.54	25.09
376	3164.45	25.17
377	3169.37	25.27
378	3174.28	25.43
379	3197.64	25.36
380	3202.15	25.37
381	3206.67	25.43
382	3211.18	25.54
383	3224.98	25.55
384	3229.76	25.45
385	3234.54	25.35
386	3239.31	25.28
387	3243.73	25.23
388	3248.16	25.19
389	3252.58	25.16
390	3257.01	25.15
391	3261.43	25.15
392	3265.86	25.17
393	3270.28	25.18
394	3274.84	25.16
395	3279.39	25.15
396	3283.95	25.14
397	3288.50	25.14
398	3292.93	25.15
399	3297.36	25.16
400	3301.79	25.16
401	3306.66	25.15
402	3311.52	25.13
403	3316.39	25.11
404	3321.26	25.08
405	3326.12	25.06
406	3330.99	25.04
407	3335.88	25.01
408	3340.77	24.99
409	3345.66	24.96
410	3350.55	24.93
411	3355.44	24.91
412	3360.33	24.93
413	3365.22	24.98
414	3370.11	25.25
415	3375.00	25.33
416	3379.23	25.24
417	3383.46	25.17
418	3387.69	25.17
419	3391.92	25.24
420	3396.14	25.45
421	3400.37	25.50

Order	Station [ft]	Elevation [ft]
422	3405.11	25.39
423	3409.84	25.30
424	3414.58	25.28
425	3418.80	25.37
426	3423.02	25.51
427	3481.31	25.30
428	3485.85	25.13
429	3490.39	25.14
430	3494.93	25.24
431	3498.61	25.36
432	3502.29	25.47
433	3505.98	25.54
434	3510.10	25.54
435	3514.22	25.49
436	3518.34	25.61
437	3522.46	25.53
438	3526.58	25.49
439	3530.61	25.47
440	3534.65	25.44
441	3538.69	25.18
442	3543.32	25.12
443	3547.96	25.27
444	3552.59	25.44
445	3557.23	25.42
446	3561.76	25.31
447	3566.28	25.24
448	3570.81	25.22
449	3575.34	25.33
450	3579.60	25.25
451	3583.86	25.09
452	3588.11	25.23
453	3593.04	25.37
454	3597.97	25.39
455	3602.90	25.36
456	3607.83	25.36
457	3612.80	25.21
458	3617.77	24.95
459	3622.74	24.80
460	3627.71	24.80
461	3632.68	24.94
462	3637.64	25.13
463	3642.61	25.60
464	3757.35	25.44
465	3761.65	25.22
466	3765.94	25.42
467	3815.98	25.57
468	3820.54	25.43
469	3825.09	25.35
470	3829.65	25.19

Order	Station [ft]	Elevation [ft]
471	3834.44	25.22
472	3839.22	25.30
473	3844.01	25.40
474	3848.79	25.49
475	3853.58	25.51
476	3858.37	25.50
477	3863.15	25.58
478	4063.66	25.46
479	4068.54	25.33
480	4073.42	25.34
481	4078.29	25.26
482	4083.17	25.14
483	4088.05	25.03
484	4092.92	24.99
485	4097.80	25.00
486	4102.68	25.03
487	4107.56	25.08
488	4112.26	25.12
489	4116.97	25.18
490	4121.67	25.24
491	4126.38	25.31
492	4131.08	25.38
493	4135.79	25.43
494	4140.50	25.49
495	4145.20	25.55
496	4149.91	25.61

Comment:

Simulation: Mean Annual

Scenario: Scenario1  
 Run Date/Time: 8/28/2020 2:54:32 PM  
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	



## Output Time Increments

## Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 5.00 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2

(2D):  
Energy Switch (2D): Energy

(1D):  
Energy Switch (1D): Energy

Comment:

Simulation: SJRWMD 25Y-24H

Scenario: Scenario1  
Run Date/Time: 8/28/2020 3:04:51 PM  
Program Version: ICPR4 4.04.00

#### General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000
	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]	
Min Calculation Time:	60.0000	0.1000	900.0000	
Max Calculation Time:		30.0000		

#### Output Time Increments

##### Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Restart File

Save Restart: False

#### Resources & Lookup Tables

##### Resources

Rainfall Folder:  
Reference ET Folder:

##### Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:

Unit Hydrograph  
Folder:

Curve Number Set: CN

Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

Tolerances & Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 9.50 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: St Johns River Water Management District 25Y-24H

Simulation: Treatment Volume Recovery

Scenario: Scenario1  
Run Date/Time: N/A  
Program Version: N/A

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	40.0000
	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]	
Min Calculation Time:	60.0000	0.1000	900.0000	
Max Calculation Time:		30.0000		

## Output Time Increments

## Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: No Rainfall
Link Optimizer Tol: 0.0001 ft	Rainfall Name:
	Rainfall Amount: 0.00 in
Edge Length Option: Automatic	Storm Duration: 0.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2

---

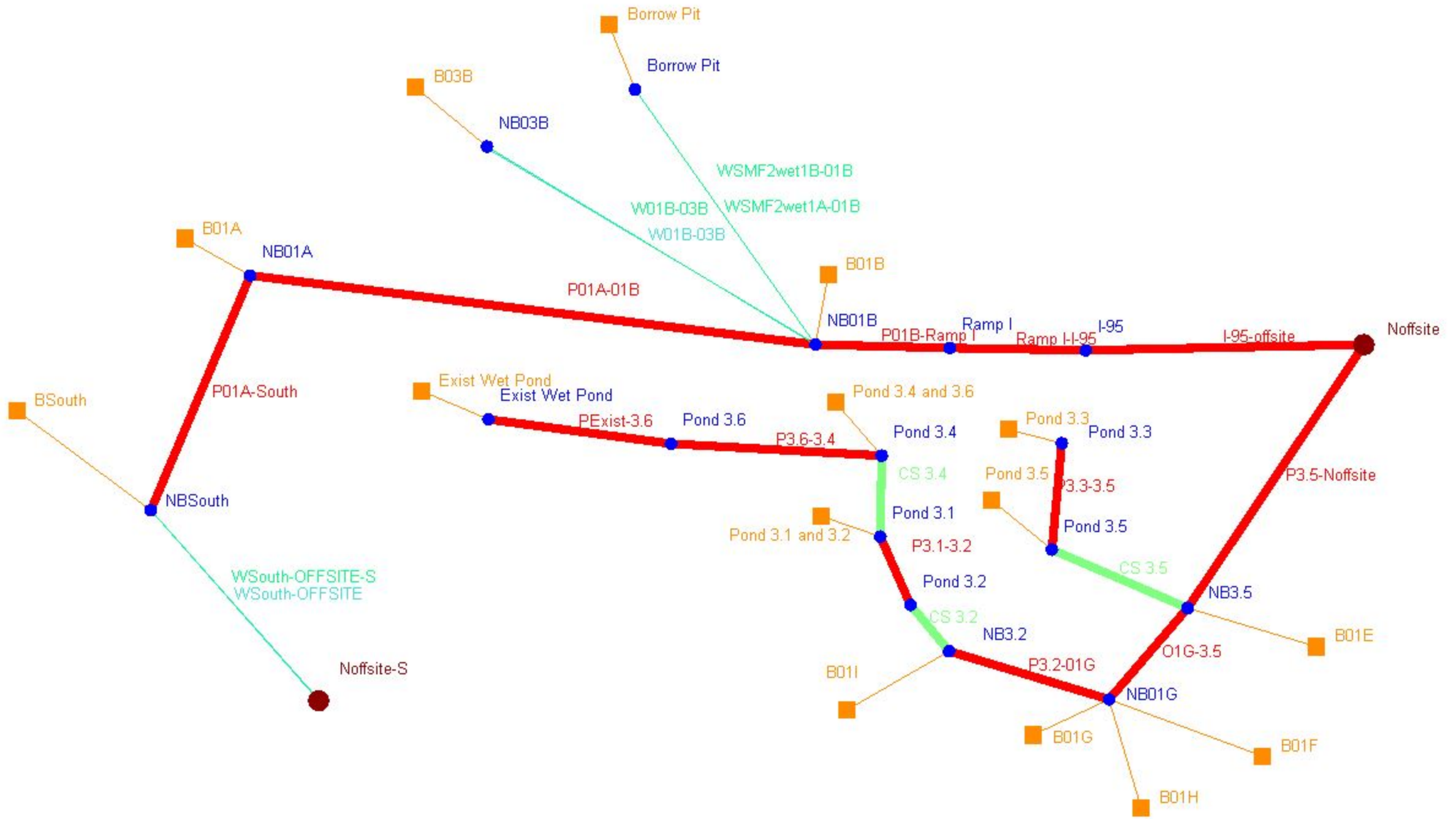
(2D):  
Energy Switch (2D): Energy

(1D):  
Energy Switch (1D): Energy

Comment: Treatment Volume Recovery

Scenario	Sim	Node Name	Maximum Stage [ft]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
Scenario1	Mean Annual	Borrow Pit	25.65	56.26	6.35
Scenario1	Mean Annual	Existing Pond	25.15	42.61	26.78
Scenario1	Mean Annual	NB01A	24.73	64.54	4.98
Scenario1	Mean Annual	NB01B	24.68	94.96	17.16
Scenario1	Mean Annual	NB01G	24.19	56.88	55.96
Scenario1	Mean Annual	NB03B	24.94	31.91	20.11
Scenario1	Mean Annual	NB3.2	24.34	57.15	56.88
Scenario1	Mean Annual	NB3.3	26.55	50.70	50.64
Scenario1	Mean Annual	NB3.4	26.44	42.74	42.73
Scenario1	Mean Annual	NB3.5	24.08	82.03	81.94
Scenario1	Mean Annual	NBSouth	24.74	35.60	3.20
Scenario1	Mean Annual	Noffsite	15.00	122.12	0.00
Scenario1	Mean Annual	Noffsite-S	24.50	2.60	0.00
Scenario1	SJRWMD 25Y-24H	Borrow Pit	26.22	112.14	29.29
Scenario1	SJRWMD 25Y-24H	Existing Pond	26.01	90.85	37.92
Scenario1	SJRWMD 25Y-24H	NB01A	25.20	141.80	47.96
Scenario1	SJRWMD 25Y-24H	NB01B	25.42	228.69	42.61
Scenario1	SJRWMD 25Y-24H	NB01G	25.61	125.99	96.46
Scenario1	SJRWMD 25Y-24H	NB03B	25.42	73.49	57.03
Scenario1	SJRWMD 25Y-24H	NB3.2	26.09	126.05	125.99
Scenario1	SJRWMD 25Y-24H	NB3.3	32.83	109.86	109.80
Scenario1	SJRWMD 25Y-24H	NB3.4	31.88	100.16	100.11
Scenario1	SJRWMD 25Y-24H	NB3.5	25.29	132.40	132.39
Scenario1	SJRWMD 25Y-24H	NBSouth	24.95	95.03	72.83
Scenario1	SJRWMD 25Y-24H	Noffsite	15.00	208.62	0.00
Scenario1	SJRWMD 25Y-24H	Noffsite-S	24.50	72.83	0.00

## Alternative 3 - ICPR Post-Development





## Manual Basin: B01A

Scenario: Scenario1  
 Node: NB01A  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 53.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
56.5600	B01A	B01A			

Comment:

## Manual Basin: B01B

Scenario: Scenario1  
 Node: NB01B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 23.5000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
19.5900	B01B	B01B			

Comment:

## Manual Basin: B03B

Scenario: Scenario1  
 Node: NB03B  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 29.8000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
24.0000	B03B	B03B			

Comment:

Manual Basin: BSouth

Scenario: Scenario1  
 Node: NBSouth  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 59.7000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
30.1300	BSouth	BSouth			

Comment:

Manual Basin: Borrow Pit

Scenario: Scenario1  
 Node: Borrow Pit  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 21.0800 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
27.6000	Borrow Pit	Borrow Pit			

Comment:

Manual Basin: Exist Wet Pond

Scenario: Scenario1  
 Node: Exist Wet Pond  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 12.6600 min  
 Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
18.6500	Exist Wet Pond	Exist Wet Pond			

Comment:

Manual Basin: Pond 3.1 and 3.2

Scenario: Scenario1  
 Node: Pond 3.1  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
24.3000	Pond 3.1 and 3.2	Pond 3.1 and 3.2			

Comment:

Manual Basin: Pond 3.3

Scenario: Scenario1  
 Node: Pond 3.3  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coeficient Zone	Reference ET Station
20.9000	Pond 3.3	Pond 3.3			

Comment:

Manual Basin: Pond 3.4 and 3.6

Scenario: Scenario1  
 Node: Pond 3.4  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
13.0300	Pond 3.4 and 3.6	Pond 3.4 and 3.6			

Comment:

#### Manual Basin: Pond 3.5

Scenario: Scenario1  
 Node: Pond 3.5  
 Hydrograph Method: NRCS Unit Hydrograph  
 Infiltration Method: Curve Number  
 Time of Concentration: 10.0000 min  
 Max Allowable Q: 0.00 cfs  
 Time Shift: 0.0000 hr  
 Unit Hydrograph: UH256  
 Peaking Factor: 256.0

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name	Crop Coefficient Zone	Reference ET Station
11.0500	Pond 3.5	Pond 3.5			

Comment:

#### Curve Number: CN [Set]

Land Cover Zone	Soil Zone	Curve Number [dec]
B01A	B01A	89.0
B01B	B01B	87.0
B01E	B01E	77.0
B01F	B01F	84.0
B01G	B01G	84.0
B01H	B01H	77.0
B01I	B01I	77.0
B03B	B03B	83.0
BSouth	BSouth	82.0
Borrow Pit	Borrow Pit	93.0
Exist Wet Pond	Exist Wet Pond	91.6

Land Cover Zone	Soil Zone	Curve Number [dec]
Pond 3.1 and 3.2	Pond 3.1 and 3.2	91.4
Pond 3.3	Pond 3.3	92.7
Pond 3.4 and 3.6	Pond 3.4 and 3.6	92.3
Pond 3.5	Pond 3.5	91.6

Node: Borrow Pit

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.86 ft  
 Warning Stage: 27.86 ft

Stage [ft]	Area [ac]	Area [ft2]
1.86	5.5100	240016
24.86	8.2400	358934
27.86	8.9500	389862

Comment:

Node: Exist Wet Pond

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.36 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	2.4800	108029
22.50	3.1800	138521
24.36	3.6200	157687
27.50	4.3900	191228
28.50	5.3400	232610

Comment:

Node: I-95

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 21.00 ft  
 Warning Stage: 24.94 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	0.0000	0
24.94	0.0000	0

Comment:

Node: NB01A

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 32.06 ft

Stage [ft]	Area [ac]	Area [ft2]
22.33	0.0010	44
23.33	0.1000	4356
24.33	15.5000	675180
25.33	31.9000	1389564
26.33	42.8000	1864368
27.33	52.1000	2269476
28.33	58.3000	2539548
29.33	60.8000	2648448
30.33	60.9000	2652804
31.33	61.0000	2657160
32.06	61.0000	2657160

Comment:

Node: NB01B

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.21 ft  
 Warning Stage: 51.46 ft

Stage [ft]	Area [ac]	Area [ft2]
22.21	0.0010	44
22.61	0.0010	44
23.61	0.7000	30492
24.61	17.7000	771012
25.61	27.2000	1184832
27.61	37.8000	1646568
28.61	39.1000	1703196
29.61	40.1000	1746756

Stage [ft]	Area [ac]	Area [ft2]
30.61	40.7000	1772892
31.61	40.8000	1777248
32.61	40.8000	1777248
33.61	40.8000	1777248
34.61	40.9000	1781604
35.61	40.9000	1781604
36.61	40.9000	1781604
37.61	41.0000	1785960
38.61	41.0000	1785960
39.61	41.0000	1785960
40.61	41.1000	1790316
41.61	41.1000	1790316
42.61	41.1000	1790316
43.61	41.2000	1794672
44.61	41.2000	1794672
45.61	41.2000	1794672
46.61	41.3000	1799028
47.61	41.3000	1799028
48.61	41.3000	1799028
49.61	41.4000	1803384
50.61	41.4000	1803384
51.51	41.4000	1803384
26.61	34.2000	1489752

Comment:

Node: NB01G

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.66 ft  
Warning Stage: 29.00 ft

Stage [ft]	Area [ac]	Area [ft2]
20.66	0.0000	0
23.50	0.0000	0
24.00	0.0110	479
24.50	0.2020	8799
25.00	0.5920	25788
25.50	2.4520	106809
26.00	3.4590	150674
26.50	3.7560	163611
27.00	3.9920	173892
27.50	4.3170	188049
28.00	4.5720	199156
28.50	4.8340	210569

Stage [ft]	Area [ac]	Area [ft2]
29.00	5.0980	222069
29.50	5.3660	233743
30.00	5.6360	245504

Comment:

Node: NB03B

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 24.06 ft  
Warning Stage: 32.01 ft

Stage [ft]	Area [ac]	Area [ft2]
23.19	0.0010	44
24.19	0.3000	13068
25.19	6.5000	283140
26.19	11.5000	500940
27.19	13.5000	588060
28.19	14.1000	614196
29.19	14.4000	627264
30.19	14.6000	635976
31.19	14.6000	635976
32.01	14.6000	635976

Comment:

Node: NB3.2

Scenario: Scenario1  
Type: Stage/Area  
Base Flow: 0.00 cfs  
Initial Stage: 20.75 ft  
Warning Stage: 25.15 ft

Stage [ft]	Area [ac]	Area [ft2]
20.75	0.0000	0
25.15	0.0000	0

Comment:

Node: NB3.5



Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 20.13 ft  
 Warning Stage: 25.86 ft

Stage [ft]	Area [ac]	Area [ft2]
20.13	0.0000	0
25.86	0.0000	0

Comment:

Node: NBSouth

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.53 ft  
 Warning Stage: 33.67 ft

Stage [ft]	Area [ac]	Area [ft2]
22.39	0.0010	44
22.89	0.0143	623
23.39	0.0964	4199
23.89	1.2391	53975
24.39	12.3783	539199
24.89	22.2377	968674
25.39	27.0965	1180324
25.89	31.2305	1360401
26.39	33.3190	1451376
26.89	34.2642	1492549
27.39	34.5225	1503800
27.89	34.6654	1510025
28.39	34.7297	1512826
28.89	34.7584	1514076
29.39	34.7687	1514525
29.89	34.7740	1514755
33.67	34.7740	1514755

Comment:

Node: Noffsites

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 15.00 ft

Warning Stage: 15.00 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	15.00
0	0	0	50.0000	15.00

Comment:

**Node: Noffsite-S**

Scenario: Scenario1  
 Type: Time/Stage  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.50 ft  
 Warning Stage: 24.50 ft  
 Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	24.50
0	0	0	50.0000	24.50

Comment:

**Node: Pond 3.1**

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 23.74 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	3.7100	161608
22.50	4.1800	182081
23.74	4.3900	191228
27.50	5.0300	219107
28.50	5.7000	248292

Comment:

**Node: Pond 3.2**

Scenario: Scenario1  
 Type: Stage/Area

Base Flow: 0.00 cfs  
 Initial Stage: 23.74 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.0800	47045
22.50	1.3400	58370
23.74	1.4600	63598
27.50	1.8300	79715
28.50	2.2300	97139

Comment:

Node: Pond 3.3

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	4.0880	178073
22.50	4.5510	198242
24.29	4.8370	210700
27.50	5.3680	233830
28.50	6.0180	262144

Comment:

Node: Pond 3.4

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.3500	58806
22.50	1.7140	74662
24.29	1.9420	84594
27.50	2.3680	103150
28.50	2.8970	126193

Comment:

## Node: Pond 3.5

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	1.6000	69696
22.50	1.9000	82764
24.29	2.1000	91476
27.50	2.4600	107158
28.50	2.9100	126760

Comment:

## Node: Pond 3.6

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 24.29 ft  
 Warning Stage: 26.50 ft

Stage [ft]	Area [ac]	Area [ft2]
16.50	0.4500	19602
22.50	0.6200	27007
24.29	0.7400	32234
27.50	0.9600	41818
28.50	1.2400	54014

Comment:

## Node: Ramp I

Scenario: Scenario1  
 Type: Stage/Area  
 Base Flow: 0.00 cfs  
 Initial Stage: 22.09 ft  
 Warning Stage: 25.09 ft

Stage [ft]	Area [ac]	Area [ft2]
22.09	0.0000	0
25.09	0.0000	0

Comment:

Drop Structure Link: CS 3.2		Upstream Pipe	Downstream Pipe
Scenario:	Scenario1	Invert: 22.25 ft	Invert: 20.75 ft
From Node:	Pond 3.2	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB3.2	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count:	1	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	116.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft		
Energy Switch:	Energy		

Pipe Comment: 19'X30" Horizontal Ellipse

Weir Component		Bottom Clip	
Weir:	1	Default: 0.00 ft	
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Horizontal	Default: 0.00 ft	
Geometry Type:	Rectangular	Op Table:	
Invert:	26.50 ft	Ref Node:	
Control Elevation:	26.50 ft	Discharge Coefficients	
Max Depth:	6.58 ft	Weir Default: 3.200	
Max Width:	3.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default: 0.600	
		Orifice Table:	

Weir Comment: DBI Type H  
6'-7"x3'-0"

Weir Component		Bottom Clip	
Weir:	2	Default: 0.00 ft	
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Sharp Crested Vertical	Default: 0.00 ft	
Geometry Type:	Circular	Op Table:	
Invert:	23.49 ft	Ref Node:	
Control Elevation:	23.74 ft	Discharge Coefficients	
Max Depth:	0.34 ft	Weir Default: 3.200	
		Weir Table:	
		Orifice Default: 0.600	
		Orifice Table:	

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 24.22 ft	Op Table:
Control Elevation: 24.22 ft	Ref Node:
Max Depth: 2.28 ft	Discharge Coefficients
Max Width: 1.45 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS 3.4	Upstream Pipe	Downstream Pipe
Scenario: Scenario1	Invert: 21.00 ft	Invert: 19.75 ft
From Node: Pond 3.4	Manning's N: 0.0120	Manning's N: 0.0120
To Node: Pond 3.1	Geometry: Circular	Geometry: Circular
Link Count: 1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both	Bottom Clip	
Solution: Combine	Default: 0.00 ft	Default: 0.00 ft
Increments: 10	Op Table:	Op Table:
Pipe Count: 1	Ref Node:	Ref Node:
Damping: 0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length: 290.00 ft	Top Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft		
Energy Switch: Energy		

Pipe Comment:

Weir Component	
Weir: 1	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Horizontal	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 26.50 ft	Op Table:

Control Elevation: 26.50 ft  
 Max Depth: 6.58 ft  
 Max Width: 3.00 ft  
 Fillet: 0.00 ft

Ref Node:  
 Discharge Coefficients  
 Weir Default: 3.200  
 Weir Table:  
 Orifice Default: 0.600  
 Orifice Table:

Weir Comment: DBI Type H  
 6'-7"x3'-0"

Weir Component	
Weir: 2	Bottom Clip
Weir Count: 1	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Circular	Default: 0.00 ft
Invert: 24.04 ft	Op Table:
Control Elevation: 24.29 ft	Ref Node:
Max Depth: 0.38 ft	Discharge Coefficients
	Weir Default: 3.200
	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Weir Component	
Weir: 3	Bottom Clip
Weir Count: 2	Default: 0.00 ft
Weir Flow Direction: Both	Op Table:
Damping: 0.0000 ft	Ref Node:
Weir Type: Sharp Crested Vertical	Top Clip
Geometry Type: Rectangular	Default: 0.00 ft
Invert: 24.94 ft	Op Table:
Control Elevation: 24.94 ft	Ref Node:
Max Depth: 1.56 ft	Discharge Coefficients
Max Width: 3.70 ft	Weir Default: 3.200
Fillet: 0.00 ft	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Weir Comment:

Drop Structure Comment:

Drop Structure Link: CS 3.5	Upstream Pipe	Downstream Pipe
Scenario: Scenario1	Invert: 21.25 ft	Invert: 21.00 ft
From Node: Pond 3.5	Manning's N: 0.0120	Manning's N: 0.0120

To Node:	NB3.5	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Solution:	Combine	Default: 0.00 ft	Default: 0.00 ft
Increments:	10	Op Table:	Op Table:
Pipe Count:	1	Ref Node:	Ref Node:
Damping:	0.0000 ft	Manning's N: 0.0000	Manning's N: 0.0000
Length:	325.00 ft	Top Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:
Bend Loss Coef:	0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location:	0.00 ft		
Energy Switch:	Energy		

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Horizontal
Geometry Type:	Rectangular
Invert:	26.50 ft
Control Elevation:	26.50 ft
Max Depth:	6.58 ft
Max Width:	3.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: DBI Type H  
6'-7"x3'-0"

Weir Component	
Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Circular
Invert:	24.04 ft
Control Elevation:	24.29 ft
Max Depth:	0.34 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component



Weir: 3 Weir Count: 1 Weir Flow Direction: Both Damping: 0.0000 ft Weir Type: Sharp Crested Vertical Geometry Type: Rectangular Invert: 24.94 ft Control Elevation: 24.94 ft Max Depth: 1.56 ft Max Width: 2.00 ft Fillet: 0.00 ft	<table border="0"> <tr><td colspan="2" style="background-color: #cccccc;">Bottom Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Top Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Discharge Coefficients</td></tr> <tr><td>Weir Default:</td><td>3.200</td></tr> <tr><td>Weir Table:</td><td></td></tr> <tr><td>Orifice Default:</td><td>0.600</td></tr> <tr><td>Orifice Table:</td><td></td></tr> </table>	Bottom Clip		Default:	0.00 ft	Op Table:		Ref Node:		Top Clip		Default:	0.00 ft	Op Table:		Ref Node:		Discharge Coefficients		Weir Default:	3.200	Weir Table:		Orifice Default:	0.600	Orifice Table:	
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Ref Node:																											
Discharge Coefficients																											
Weir Default:	3.200																										
Weir Table:																											
Orifice Default:	0.600																										
Orifice Table:																											

Weir Comment:

Drop Structure Comment:

Pipe Link: I-95-offsite		Upstream	Downstream																																															
Scenario: Scenario1 From Node: I-95 To Node: Noffsite Link Count: 1 Flow Direction: Both Damping: 0.0000 ft Length: 540.00 ft FHWA Code: 0 Entr Loss Coef: 0.50 Exit Loss Coef: 1.00 Bend Loss Coef: 0.00 Bend Location: 0.00 ft Energy Switch: Energy	Invert: 21.94 ft Manning's N: 0.0120 <table border="0"> <tr><td colspan="2" style="background-color: #cccccc;">Geometry: Circular</td></tr> <tr><td>Max Depth:</td><td>4.00 ft</td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Bottom Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td>Manning's N:</td><td>0.0000</td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Top Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td>Manning's N:</td><td>0.0000</td></tr> </table>	Geometry: Circular		Max Depth:	4.00 ft	Bottom Clip		Default:	0.00 ft	Op Table:		Ref Node:		Manning's N:	0.0000	Top Clip		Default:	0.00 ft	Op Table:		Ref Node:		Manning's N:	0.0000	Invert: 20.84 ft Manning's N: 0.0120 <table border="0"> <tr><td colspan="2" style="background-color: #cccccc;">Geometry: Circular</td></tr> <tr><td>Max Depth:</td><td>4.00 ft</td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Bottom Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td>Manning's N:</td><td>0.0000</td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Top Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> <tr><td>Ref Node:</td><td></td></tr> <tr><td>Manning's N:</td><td>0.0000</td></tr> </table>	Geometry: Circular		Max Depth:	4.00 ft	Bottom Clip		Default:	0.00 ft	Op Table:		Ref Node:		Manning's N:	0.0000	Top Clip		Default:	0.00 ft	Op Table:		Ref Node:		Manning's N:	0.0000
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Manning's N:	0.0000																																																	

Comment:

Pipe Link: O1G-3.5		Upstream	Downstream																											
Scenario: Scenario1 From Node: NB01G To Node: NB3.5 Link Count: 1 Flow Direction: Both Damping: 0.0000 ft Length: 180.00 ft FHWA Code: 0 Entr Loss Coef: 0.50	Invert: 20.66 ft Manning's N: 0.0120 <table border="0"> <tr><td colspan="2" style="background-color: #cccccc;">Geometry: Rectangular</td></tr> <tr><td>Max Depth:</td><td>4.00 ft</td></tr> <tr><td>Max Width:</td><td>7.00 ft</td></tr> <tr><td>Fillet:</td><td>0.00 ft</td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Bottom Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> </table>	Geometry: Rectangular		Max Depth:	4.00 ft	Max Width:	7.00 ft	Fillet:	0.00 ft	Bottom Clip		Default:	0.00 ft	Op Table:		Invert: 20.13 ft Manning's N: 0.0120 <table border="0"> <tr><td colspan="2" style="background-color: #cccccc;">Geometry: Rectangular</td></tr> <tr><td>Max Depth:</td><td>4.00 ft</td></tr> <tr><td>Max Width:</td><td>7.00 ft</td></tr> <tr><td>Fillet:</td><td>0.00 ft</td></tr> <tr><td colspan="2" style="background-color: #cccccc;">Bottom Clip</td></tr> <tr><td>Default:</td><td>0.00 ft</td></tr> <tr><td>Op Table:</td><td></td></tr> </table>	Geometry: Rectangular		Max Depth:	4.00 ft	Max Width:	7.00 ft	Fillet:	0.00 ft	Bottom Clip		Default:	0.00 ft	Op Table:	
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Geometry: Rectangular																														
Max Depth:	4.00 ft																													
Max Width:	7.00 ft																													
Fillet:	0.00 ft																													
Bottom Clip																														
Default:	0.00 ft																													
Op Table:																														

Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01A-01B	Upstream	Downstream
Scenario: Scenario1	Invert: 24.36 ft	Invert: 24.16 ft
From Node: NB01A	Manning's N: 0.0130	Manning's N: 0.0130
To Node: NB01B	Geometry: Horizontal Ellipse	Geometry: Horizontal Ellipse
Link Count: 5	Max Depth: 2.00 ft	Max Depth: 2.00 ft
Flow Direction: Both	Bottom Clip	
Damping: 0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length: 130.00 ft	Op Table:	Op Table:
FHWA Code: 0	Ref Node:	Ref Node:
Entr Loss Coef: 0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00	Top Clip	
Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01A-South	Upstream	Downstream
Scenario: Scenario1	Invert: 23.08 ft	Invert: 22.77 ft
From Node: NBSouth	Manning's N: 0.0130	Manning's N: 0.1300
To Node: NB01A	Geometry: Rectangular	Geometry: Rectangular
Link Count: 1	Max Depth: 2.25 ft	Max Depth: 2.25 ft
Flow Direction: Both	Max Width: 8.75 ft	Max Width: 8.75 ft
Damping: 0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 67.00 ft	Bottom Clip	
FHWA Code: 0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.20	Op Table:	Op Table:
Exit Loss Coef: 1.00	Ref Node:	Ref Node:
Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P01B-Ramp I		Upstream	Downstream
Scenario:	Scenario1	Invert: 22.20 ft	Invert: 22.10 ft
From Node:	NB01B	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Ramp I	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	105.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P3.1-3.2		Upstream	Downstream
Scenario:	Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node:	Pond 3.1	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Pond 3.2	Geometry: Circular	Geometry: Circular
Link Count:	2	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	175.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P3.2-01G		Upstream	Downstream
Scenario:	Scenario1	Invert: 20.75 ft	Invert: 20.66 ft
From Node:	NB3.2	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	NB01G	Geometry: Rectangular	Geometry: Rectangular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Both	Max Width: 7.00 ft	Max Width: 7.00 ft
Damping:	0.0000 ft	Fillet: 0.00 ft	Fillet: 0.00 ft
Length:	180.00 ft	Bottom Clip	
FHWA Code:	0	Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef:	0.50	Op Table:	Op Table:
Exit Loss Coef:	1.00	Ref Node:	Ref Node:

Bend Loss Coef: 0.00	Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft	Top Clip	
Energy Switch: Energy	Default: 0.00 ft	Default: 0.00 ft
	Op Table:	Op Table:
	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P3.3-3.5		Upstream	Downstream
Scenario: Scenario1		Invert: 16.50 ft	Invert: 16.50 ft
From Node: Pond 3.3		Manning's N: 0.0120	Manning's N: 0.0120
To Node: Pond 3.5		Geometry: Circular	Geometry: Circular
Link Count: 1		Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction: Both		Bottom Clip	
Damping: 0.0000 ft		Default: 0.00 ft	Default: 0.00 ft
Length: 300.00 ft		Op Table:	Op Table:
FHWA Code: 0		Ref Node:	Ref Node:
Entr Loss Coef: 0.50		Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef: 1.00		Top Clip	
Bend Loss Coef: 0.00		Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft		Op Table:	Op Table:
Energy Switch: Energy		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P3.5-Noffsite		Upstream	Downstream
Scenario: Scenario1		Invert: 20.98 ft	Invert: 20.88 ft
From Node: NB3.5		Manning's N: 0.0120	Manning's N: 0.0120
To Node: Noffsite		Geometry: Rectangular	Geometry: Rectangular
Link Count: 2		Max Depth: 5.00 ft	Max Depth: 5.00 ft
Flow Direction: Both		Max Width: 7.00 ft	Max Width: 7.00 ft
Damping: 0.0000 ft		Fillet: 0.00 ft	Fillet: 0.00 ft
Length: 88.00 ft		Bottom Clip	
FHWA Code: 0		Default: 0.00 ft	Default: 0.00 ft
Entr Loss Coef: 0.50		Op Table:	Op Table:
Exit Loss Coef: 1.00		Ref Node:	Ref Node:
Bend Loss Coef: 0.00		Manning's N: 0.0000	Manning's N: 0.0000
Bend Location: 0.00 ft		Top Clip	
Energy Switch: Energy		Default: 0.00 ft	Default: 0.00 ft
		Op Table:	Op Table:
		Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Pipe Link: P3.6-3.4		Upstream	Downstream
Scenario:	Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node:	Pond 3.6	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Pond 3.4	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	81.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: PExist-3.6		Upstream	Downstream
Scenario:	Scenario1	Invert: 16.50 ft	Invert: 16.50 ft
From Node:	Exist Wet Pond	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	Pond 3.6	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 3.00 ft	Max Depth: 3.00 ft
Flow Direction:	Both	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	250.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	
Bend Loss Coef:	0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location:	0.00 ft	Op Table:	Op Table:
Energy Switch:	Energy	Ref Node:	Ref Node:
		Manning's N: 0.0000	Manning's N: 0.0000
Comment:			

Pipe Link: Ramp I-I-95		Upstream	Downstream
Scenario:	Scenario1	Invert: 22.10 ft	Invert: 21.94 ft
From Node:	Ramp I	Manning's N: 0.0120	Manning's N: 0.0120
To Node:	I-95	Geometry: Circular	Geometry: Circular
Link Count:	1	Max Depth: 4.00 ft	Max Depth: 4.00 ft
Flow Direction:	Positive	Bottom Clip	
Damping:	0.0000 ft	Default: 0.00 ft	Default: 0.00 ft
Length:	275.00 ft	Op Table:	Op Table:
FHWA Code:	0	Ref Node:	Ref Node:
Entr Loss Coef:	0.50	Manning's N: 0.0000	Manning's N: 0.0000
Exit Loss Coef:	1.00	Top Clip	

Bend Loss Coef: 0.00	Default: 0.00 ft	Default: 0.00 ft
Bend Location: 0.00 ft	Op Table:	Op Table:
Energy Switch: Energy	Ref Node:	Ref Node:
	Manning's N: 0.0000	Manning's N: 0.0000

Comment:

Weir Link: W01B-03B

Scenario: Scenario1	Bottom Clip
From Node: NB01B	Default: 0.00 ft
To Node: NB03B	Op Table:
Link Count: 1	Ref Node:
Flow Direction: Both	Top Clip
Damping: 0.0000 ft	Default: 0.00 ft
Weir Type: Sharp Crested Vertical	Op Table:
Geometry Type: Irregular	Ref Node:
Invert: 24.46 ft	Discharge Coefficients
Control Elevation: 24.46 ft	Weir Default: 2.800
Cross Section: W01B-03B	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Comment:

Weir Link: WSMF2wet1A-01B

Scenario: Scenario1	Bottom Clip
From Node: Borrow Pit	Default: 0.00 ft
To Node: NB01B	Op Table:
Link Count: 1	Ref Node:
Flow Direction: Both	Top Clip
Damping: 0.0000 ft	Default: 0.00 ft
Weir Type: Sharp Crested Vertical	Op Table:
Geometry Type: Rectangular	Ref Node:
Invert: 24.86 ft	Discharge Coefficients
Control Elevation: 24.86 ft	Weir Default: 3.200
Max Depth: 0.60 ft	Weir Table:
Max Width: 0.60 ft	Orifice Default: 0.600
Fillet: 0.00 ft	Orifice Table:

Comment:

Weir Link: WSMF2wet1B-01B

Scenario: Scenario1	Bottom Clip
From Node: Borrow Pit	Default: 0.00 ft
To Node: NB01B	Op Table:

Link Count: 1	
Flow Direction: Both	Ref Node:
Damping: 0.0000 ft	Top Clip
Weir Type: Sharp Crested Vertical	Default: 0.00 ft
Geometry Type: Rectangular	Op Table:
Invert: 25.37 ft	Ref Node:
Control Elevation: 25.37 ft	Discharge Coefficients
Max Depth: 900.00 ft	Weir Default: 3.200
Max Width: 11.00 ft	Weir Table:
Fillet: 0.00 ft	Orifice Default: 0.600
	Orifice Table:

Comment:

**Weir Link: WSouth-OFFSITE-S**

Scenario: Scenario1	Bottom Clip
From Node: NBSouth	Default: 0.00 ft
To Node: Noffsite-S	Op Table:
Link Count: 1	Ref Node:
Flow Direction: Both	Top Clip
Damping: 0.0000 ft	Default: 0.00 ft
Weir Type: Sharp Crested Vertical	Op Table:
Geometry Type: Irregular	Ref Node:
Invert: 24.62 ft	Discharge Coefficients
Control Elevation: 24.62 ft	Weir Default: 2.800
Cross Section: WSouth-OFFSITE	Weir Table:
	Orifice Default: 0.600
	Orifice Table:

Comment:

**Weir Cross Section: W01B-03B**

Scenario: Scenario1  
Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	0.00	25.97
1	4.83	25.55
2	9.65	25.20
3	14.48	25.23
4	19.31	25.56
5	24.13	25.80
6	28.96	25.78
7	33.79	25.74
8	38.61	25.71
9	43.44	25.68

Order	Station [ft]	Elevation [ft]
10	48.27	25.66
11	53.09	25.78
12	57.92	25.93
13	62.75	26.03
14	67.57	26.02
15	72.40	25.98
16	77.23	26.00
17	82.05	26.03
18	86.88	25.97
19	91.71	25.88
20	96.53	26.07
21	101.36	25.98
22	106.18	25.67
23	111.01	25.54
24	115.84	25.57
25	120.66	25.30
26	125.49	25.18
27	130.11	25.17
28	134.73	25.11
29	139.35	25.03
30	143.97	24.99
31	148.59	25.07
32	153.21	25.13
33	157.83	25.19
34	162.45	25.25
35	167.07	25.29
36	171.69	25.48
37	176.31	26.15
38	180.93	27.31
39	185.55	27.77
40	190.17	28.96
41	195.46	29.22
42	200.41	29.38
43	205.37	29.47
44	210.32	29.65
45	215.28	29.91
46	220.23	30.16
47	225.19	29.76
48	230.14	28.89
49	235.10	27.90
50	240.05	27.15
51	245.01	26.45
52	249.96	25.90
53	254.92	25.57
54	259.87	25.79
56	264.83	25.74
57	269.78	25.61
58	274.74	25.51
59	279.69	25.40



Order	Station [ft]	Elevation [ft]
60	284.64	25.27
61	289.60	25.15
62	294.55	25.08
63	299.51	25.10
64	304.46	25.07
65	309.42	25.00
66	314.37	24.87
67	319.33	24.63
68	324.28	24.46
69	329.24	24.51
70	334.19	24.82
71	339.15	25.04
72	344.10	25.45
73	348.95	25.45
74	353.79	25.13
75	358.64	25.10
76	363.48	25.05
77	368.33	24.76
78	373.17	24.78
79	378.02	24.68
80	382.86	24.87
81	387.71	25.00
82	392.55	25.17
83	397.40	25.35
84	402.24	25.55
85	407.09	25.72
86	411.93	25.81
87	416.78	25.88
88	421.63	25.97
89	426.47	26.44
90	431.32	27.14
91	436.16	27.40
92	441.01	27.45
93	445.85	27.44
94	450.70	27.33
95	455.51	27.32
96	460.33	27.44
97	465.14	27.20
98	469.95	26.40
99	474.77	26.25
100	479.58	25.85
101	484.40	25.59
102	489.21	25.53
103	494.02	25.31
104	498.84	25.33
105	503.65	25.58
106	508.47	25.80
107	513.28	26.02
108	518.10	26.09

Order	Station [ft]	Elevation [ft]
109	522.91	25.97
110	527.72	25.77
111	532.54	25.67
112	537.35	25.80
113	542.17	25.84
114	546.98	25.68
115	551.80	25.56
116	556.61	25.64
117	561.42	25.66
118	566.27	25.54
119	571.11	25.43
120	575.95	25.80
121	580.80	26.24
122	585.64	26.37
123	590.48	26.42
124	595.33	26.52
125	600.17	26.20
126	605.01	25.88
127	609.86	25.58
128	614.70	25.29
129	619.54	25.11
130	624.39	25.03
131	629.23	25.00
132	634.07	24.99
133	638.92	24.97
134	643.80	24.94
135	648.68	24.91
136	653.56	24.86
137	658.44	24.82
138	663.32	24.79
139	668.20	24.77
140	673.09	24.81
141	677.97	25.02
142	682.85	25.26
143	687.73	25.37
144	692.61	25.46
145	697.49	25.55
146	702.37	25.62
147	707.25	25.68
148	712.14	25.66
149	717.02	25.58
150	721.90	25.50
151	726.78	25.49
152	731.66	25.57
153	736.54	25.68
154	741.42	25.72
155	746.30	25.71
156	751.18	25.70
157	756.04	25.68

Order	Station [ft]	Elevation [ft]
158	760.89	25.66
159	765.74	25.66
160	770.59	25.95
161	775.44	26.29
162	780.29	26.41
163	785.14	26.41
164	789.99	26.40
165	794.84	26.40
166	799.69	26.32
167	804.54	26.32
168	809.39	26.48
169	814.25	26.72
170	819.10	26.66
171	823.95	26.39
172	828.80	26.08
173	833.65	26.73
174	838.50	25.50
175	843.50	25.40
176	848.20	25.36
177	853.05	25.37
178	857.90	25.38
179	862.75	25.42
180	867.60	25.39
181	872.46	25.26
182	877.31	25.12
183	882.16	25.08
184	887.01	25.14
185	891.86	25.19
186	896.74	25.20
187	901.56	25.15
188	906.32	25.17
189	911.09	25.08
190	915.85	24.94
191	920.62	24.80
192	925.38	24.63
193	930.14	24.96
194	934.91	25.16
195	939.67	25.18
196	944.43	25.25
197	949.20	25.35
198	953.96	25.45
199	958.73	25.31
200	963.49	25.88
201	968.25	27.02
202	973.02	28.09
203	977.78	28.47
204	982.55	28.17
205	987.31	27.41
206	992.07	26.58

Order	Station [ft]	Elevation [ft]
207	996.99	25.99
208	1001.91	25.61
209	1006.83	25.50
210	1011.74	25.56
211	1016.66	25.46
212	1021.58	25.41
213	1026.50	25.39
214	1031.41	25.49
215	1036.33	25.52
216	1041.25	25.50
217	1046.17	25.44
218	1051.08	25.45
219	1056.00	25.74
220	1060.92	26.00
221	1065.84	26.18
222	1070.75	26.35
223	1075.67	26.39
224	1080.59	26.23
225	1085.51	26.02
226	1090.42	25.97
227	1095.34	25.79
228	1100.26	25.65
229	1105.18	25.82
230	1110.10	26.39
231	1115.01	27.03
232	1119.93	27.44
233	1124.85	27.65
234	1129.83	27.59
235	1134.82	27.45
236	1139.80	27.03
237	1144.79	26.51
238	1149.77	26.17
239	1154.76	26.14
240	1159.74	26.15
241	1164.73	26.20
242	1169.72	26.28
243	1174.70	26.22
244	1179.69	26.08
245	1184.67	26.00
246	1189.66	26.13
247	1194.64	26.26
248	1199.63	26.14
249	1204.61	25.96
250	1209.60	25.77
251	1214.58	25.61
252	1219.57	25.40
253	1224.55	25.47
254	1229.54	25.52
255	1234.52	25.59

Order	Station [ft]	Elevation [ft]
256	1239.51	25.70
257	1244.49	25.90
258	1249.48	26.08
259	1254.47	26.10
260	1259.45	26.04
261	1264.42	26.10
262	1269.39	26.50
263	1274.36	26.93
264	1279.33	27.12
265	1284.30	27.25
266	1289.27	27.23
267	1294.24	27.14
268	1299.21	26.93
269	1304.18	26.73
270	1309.15	26.74
271	1314.13	26.20
272	1319.10	26.05
273	1324.07	26.27
274	1329.04	26.35
275	1334.01	26.09
276	1338.98	25.80
277	1343.95	25.74
278	1348.92	25.63
279	1353.89	25.45
280	1358.86	25.04
281	1363.83	24.87
282	1368.80	25.06
283	1373.77	25.06
284	1378.74	25.33
285	1383.71	25.09
286	1388.68	24.96
287	1393.65	25.19
288	1398.62	25.92
289	1403.52	26.09
290	1408.41	26.26
291	1413.30	26.27
292	1418.19	26.12
293	1423.08	26.13
294	1427.98	26.08
295	1432.87	25.97
296	1437.76	25.98
297	1442.65	26.24
298	1447.55	26.54
299	1452.44	26.41
300	1457.33	25.84
301	1462.23	25.32
302	1467.12	25.55
303	1472.01	26.46
304	1476.90	27.00

Order	Station [ft]	Elevation [ft]
305	1481.79	27.21
306	1486.69	27.09
307	1491.58	26.91
308	1496.47	26.73
309	1501.37	26.57
310	1506.26	26.39
311	1511.15	26.27
312	1516.04	26.17
313	1520.94	26.19
314	1525.83	26.24
315	1530.78	26.09
316	1535.73	25.92
317	1540.69	25.87
318	1545.64	25.89
319	1550.59	26.39
320	1555.55	26.87
321	1560.50	27.08
322	1565.45	27.35
323	1570.41	27.55
324	1575.36	27.68
325	1580.31	27.79
326	1585.27	28.11
327	1590.22	28.28
328	1595.17	28.20
329	1600.13	28.68
330	1605.08	28.85
331	1610.03	28.63
332	1614.99	28.62
333	1619.94	28.72
334	1624.89	28.45
335	1629.47	28.71
336	1634.05	28.73
337	1638.62	28.60
338	1643.20	28.13
339	1647.78	28.15
340	1652.35	28.36
341	1656.93	28.49
342	1661.51	28.36
343	1666.08	28.23
344	1670.66	28.10
345	1675.23	27.87
346	1679.78	27.73
347	1684.32	27.70
348	1688.86	27.70
349	1693.40	27.67
350	1697.94	27.95
351	1702.48	27.90
352	1707.02	28.03
353	1711.56	28.31

Order	Station [ft]	Elevation [ft]
354	1716.11	28.28
355	1720.75	28.39
356	1725.40	28.49
357	1730.05	28.49
358	1734.69	28.54
359	1739.34	28.65
360	1743.99	28.51
361	1748.63	28.14
362	1753.28	28.04
363	1757.93	27.95
364	1762.89	28.04
365	1767.85	28.05
366	1772.81	28.20
367	1777.77	28.34
368	1782.74	28.70
369	1787.70	28.93
370	1792.66	28.91
371	1797.62	28.70
372	1802.30	28.37
373	1806.98	28.20
374	1811.66	28.22
375	1816.33	28.21
376	1821.01	28.22
377	1825.69	28.23
378	1830.37	28.11
379	1835.03	28.17
380	1839.70	28.49
381	1844.36	29.06
382	1849.02	29.07
383	1853.75	28.90
384	1858.49	28.63
385	1863.22	28.63
386	1867.95	28.58
387	1872.68	28.35
388	1877.42	27.96
389	1882.15	27.72
390	1886.88	27.43
391	1891.61	27.24
392	1896.35	27.21
393	1901.08	27.20
394	1905.81	27.17
395	1910.48	27.22
396	1915.16	27.31
397	1919.83	27.36
398	1924.50	27.49
399	1929.18	27.68
400	1934.02	27.78
401	1938.86	27.82
402	1943.70	27.52

Order	Station [ft]	Elevation [ft]
403	1948.55	27.28
404	1953.39	27.14
405	1958.23	27.40
406	1963.08	27.82
407	1967.92	28.02
408	1972.43	27.73
409	1976.95	27.15
410	1981.46	27.17
411	1985.97	27.16
412	1990.49	27.11
413	1995.00	27.06
414	1999.52	27.05
415	2004.27	27.05
416	2009.02	27.08
417	2013.77	27.16
418	2018.52	27.20
419	2023.27	27.16
420	2028.02	27.32
421	2032.77	27.80
422	2037.52	28.16
423	2042.27	28.33
424	2047.02	28.22
425	2051.77	28.17
426	2056.52	28.13
427	2061.45	28.02
428	2066.39	27.96
429	2071.33	27.82
430	2076.27	27.78
431	2081.20	27.73
432	2086.14	27.44
433	2091.08	27.36
434	2095.71	27.29
435	2100.34	27.23
436	2104.94	27.17
437	2109.60	27.11
438	2114.23	27.00
439	2118.86	27.19
440	2123.49	27.50
441	2128.31	27.26
442	2133.14	27.17
443	2137.96	27.40
444	2142.78	27.60
445	2147.61	27.66
446	2152.43	27.46
447	2157.26	27.30
448	2162.08	27.14
449	2166.90	27.18
450	2171.73	27.26
451	2176.55	27.40



Order	Station [ft]	Elevation [ft]
452	2181.38	27.86
453	2186.20	28.17
454	2191.02	28.29
455	2195.85	28.35
456	2200.67	28.72

Comment:

Weir Cross Section: WSouth-OFFSITE

Scenario: Scenario1

Lid: No

Bottom Point Table

Order	Station [ft]	Elevation [ft]
0	19.25	25.47
1	24.07	25.04
2	28.88	24.99
3	33.69	25.29
4	38.51	25.43
5	43.32	25.45
6	48.06	25.45
7	52.79	25.56
8	57.53	25.61
9	61.87	25.55
10	66.22	25.47
11	70.56	25.50
12	75.12	25.57
13	473.70	25.36
14	478.51	25.30
15	483.32	25.42
16	528.44	25.52
17	533.26	25.44
18	538.08	25.35
19	542.93	25.39
20	547.79	25.45
21	552.65	25.45
22	557.51	25.50
23	562.36	25.25
24	566.43	25.10
25	570.49	24.95
26	574.56	24.97
27	578.62	24.98
28	582.69	25.01
29	587.13	25.02
30	591.57	25.12
31	596.02	25.29

Order	Station [ft]	Elevation [ft]
32	600.46	25.45
33	604.90	25.61
34	614.21	25.56
35	619.07	25.43
36	623.93	25.30
37	628.79	25.17
38	633.65	25.05
39	638.51	25.06
40	643.36	25.23
41	648.22	25.17
42	653.08	25.06
43	657.94	25.48
44	766.40	25.61
45	771.20	25.31
46	776.00	25.30
47	780.80	25.48
48	785.60	25.55
49	789.90	25.47
50	794.19	25.35
51	798.49	25.24
52	802.93	25.17
53	807.36	25.07
54	811.80	25.04
55	816.23	25.10
56	820.67	25.24
57	825.11	25.41
58	903.28	25.61
59	907.96	25.41
60	912.64	25.26
61	917.32	25.09
62	922.00	24.93
63	926.68	24.90
64	930.16	24.90
65	933.63	24.92
66	937.11	24.93
67	941.60	25.01
68	946.09	25.11
69	950.58	25.26
70	955.07	25.42
71	959.56	25.49
72	964.22	25.43
73	968.88	25.32
74	973.54	25.35
75	977.14	25.41
76	980.74	25.35
77	984.33	25.24
78	988.82	25.23
79	993.31	25.20
80	997.80	25.20

Order	Station [ft]	Elevation [ft]
81	1002.29	25.18
82	1006.78	25.15
83	1011.64	25.12
84	1016.49	25.30
85	1021.35	25.56
86	1026.20	25.60
87	1031.06	25.50
88	1035.91	25.37
89	1040.77	25.39
90	1045.65	25.31
91	1050.54	25.24
92	1055.43	25.27
93	1060.32	25.33
94	1065.20	25.42
95	1070.09	25.34
96	1074.98	25.38
97	1079.43	25.36
98	1083.89	25.31
99	1088.34	25.27
100	1092.80	25.29
101	1097.22	25.39
102	1101.65	25.45
103	1106.07	25.48
104	1110.49	25.50
105	1114.92	25.44
106	1119.34	25.36
107	1123.76	25.28
108	1128.23	25.19
109	1132.70	25.08
110	1137.16	24.99
111	1141.63	24.91
112	1146.10	25.02
113	1150.57	25.19
114	1154.87	25.34
115	1159.17	25.51
116	1163.47	25.61
117	1172.23	25.47
118	1176.70	25.20
119	1181.17	24.97
120	1185.63	24.86
121	1190.31	24.80
122	1195.00	24.85
123	1198.49	24.89
124	1201.99	25.05
125	1205.48	25.23
126	1209.63	25.26
127	1213.78	25.28
128	1217.93	25.06
129	1222.89	24.94

Order	Station [ft]	Elevation [ft]
130	1227.85	24.85
131	1231.72	24.82
132	1235.59	24.83
133	1239.46	24.85
134	1243.26	24.89
135	1247.05	24.92
136	1250.85	25.09
137	1254.64	25.38
138	1271.59	25.55
139	1275.71	25.54
140	1279.83	25.60
141	1736.72	25.61
142	1741.15	25.54
143	1745.58	25.51
144	1750.00	25.52
145	1754.66	25.56
146	1788.17	25.60
147	1793.13	25.54
148	1798.04	25.52
149	1802.96	25.54
150	1807.87	25.57
151	1859.55	25.50
152	1863.74	25.41
153	1867.94	25.35
154	1872.14	25.33
155	1876.34	25.32
156	1880.54	25.31
157	1884.73	25.32
158	1889.68	25.32
159	1894.62	25.33
160	1899.57	25.42
161	1903.56	25.49
162	1907.55	25.47
163	1911.54	25.61
164	1947.55	25.41
165	1951.76	25.29
166	1955.96	25.26
167	1960.17	25.24
168	2009.94	25.53
169	2014.75	25.41
170	2019.57	25.39
171	2024.38	25.28
172	2029.20	25.12
173	2034.02	25.00
174	2038.83	24.93
175	2043.65	24.86
176	2048.32	24.83
177	2052.99	24.78
178	2057.66	24.79

Order	Station [ft]	Elevation [ft]
179	2062.33	24.79
180	2067.00	24.85
181	2071.67	24.95
182	2076.34	25.02
183	2081.01	24.98
184	2085.44	24.95
185	2089.87	24.86
186	2094.29	24.77
187	2098.72	24.69
188	2103.21	24.68
189	2107.70	24.68
190	2112.19	24.68
191	2116.69	24.69
192	2121.18	24.72
193	2125.67	24.78
194	2130.16	24.99
195	2134.65	25.32
196	2139.15	25.45
197	2143.57	25.17
198	2148.00	24.95
199	2152.42	24.93
200	2156.85	24.85
201	2161.58	24.79
202	2166.31	24.75
203	2171.04	24.74
204	2175.77	24.83
205	2180.50	25.04
206	2185.23	25.23
207	2189.84	25.22
208	2194.44	24.80
209	2199.05	24.70
210	2203.65	24.75
211	2208.26	24.71
212	2212.86	24.75
213	2217.47	24.84
214	2222.07	24.94
215	2226.86	25.00
216	2231.65	25.06
217	2236.44	25.13
218	2241.23	25.51
219	2317.92	25.58
220	2322.73	25.52
221	2327.53	25.46
222	2332.34	25.41
223	2337.15	25.36
224	2341.95	25.31
225	2346.76	25.28
226	2351.56	25.28
227	2356.37	25.30

Order	Station [ft]	Elevation [ft]
228	2361.17	25.34
229	2365.98	25.37
230	2370.78	25.42
231	2375.59	25.47
232	2400.56	25.61
233	2405.56	25.36
234	2410.48	25.32
235	2415.40	25.35
236	2420.33	25.35
237	2425.25	25.35
238	2430.17	25.35
239	2435.10	25.36
240	2440.02	25.37
241	2444.21	25.38
242	2448.39	25.39
243	2452.58	25.41
244	2456.77	25.41
245	2460.96	25.42
246	2465.27	25.39
247	2469.59	25.35
248	2473.90	25.32
249	2478.22	25.30
250	2482.53	25.29
251	2486.84	25.29
252	2491.16	25.28
253	2496.09	25.26
254	2501.01	25.25
255	2505.94	25.27
256	2510.87	25.30
257	2515.80	25.31
258	2520.72	25.28
259	2525.69	25.24
260	2530.65	25.18
261	2535.62	25.10
262	2540.58	25.01
263	2545.55	24.92
264	2550.51	24.85
265	2555.48	24.80
266	2560.44	24.75
267	2565.40	24.71
268	2570.37	24.67
269	2575.33	24.64
270	2580.30	24.62
271	2585.03	24.63
272	2589.76	24.66
273	2594.50	24.74
274	2599.23	24.82
275	2603.96	25.19
276	2608.69	25.37

Order	Station [ft]	Elevation [ft]
277	2613.43	25.21
278	2618.16	25.06
279	2622.65	25.07
280	2627.13	25.10
281	2631.62	25.21
282	2636.11	25.43
283	2666.87	25.51
284	2671.20	25.47
285	2675.52	25.49
286	2679.57	25.51
287	2683.63	25.56
288	2736.54	25.52
289	2741.22	25.46
290	2745.89	25.41
291	2750.57	25.38
292	2755.25	25.35
293	2759.92	25.33
294	2764.60	25.29
295	2769.27	25.26
296	2773.87	25.22
297	2778.46	25.18
298	2783.06	25.14
299	2787.65	25.12
300	2792.25	25.10
301	2796.84	25.08
302	2801.44	25.06
303	2806.03	25.04
304	2810.63	25.03
305	2815.22	25.02
306	2819.82	25.02
307	2824.41	25.03
308	2828.95	25.04
309	2833.48	25.07
310	2838.01	25.11
311	2842.54	25.18
312	2847.29	25.24
313	2852.04	25.47
314	2879.45	25.42
315	2883.83	25.19
316	2888.22	25.06
317	2892.60	24.95
318	2896.99	24.87
319	2901.37	24.80
320	2906.00	24.77
321	2910.63	24.76
322	2915.26	24.77
323	2919.89	24.78
324	2924.09	24.82
325	2928.28	24.95

Order	Station [ft]	Elevation [ft]
326	2932.48	25.13
327	2936.67	25.21
328	2940.59	25.12
329	2944.52	24.99
330	2948.44	24.84
331	2952.36	24.75
332	2957.04	24.76
333	2961.73	24.77
334	2966.42	24.83
335	2971.10	24.90
336	2975.79	25.00
337	2979.75	25.25
338	2983.71	25.39
339	2987.68	25.39
340	2991.64	25.28
341	2996.52	25.15
342	3001.40	25.03
343	3006.29	24.92
344	3011.17	24.83
345	3016.05	24.78
346	3020.94	24.80
347	3025.82	24.79
348	3030.70	24.80
349	3035.59	24.80
350	3040.40	24.80
351	3045.22	24.79
352	3050.04	24.78
353	3054.84	24.78
354	3059.67	24.78
355	3064.49	24.78
356	3069.31	24.79
357	3074.12	24.80
358	3078.93	24.80
359	3083.75	24.79
360	3088.56	24.79
361	3093.37	24.80
362	3098.18	24.80
363	3102.99	24.84
364	3107.80	24.88
365	3112.62	24.90
366	3117.43	24.90
367	3122.24	24.90
368	3127.05	24.90
369	3131.58	24.89
370	3136.12	24.90
371	3140.65	24.90
372	3145.19	24.89
373	3149.72	24.91
374	3154.63	24.99



Order	Station [ft]	Elevation [ft]
375	3159.54	25.09
376	3164.45	25.17
377	3169.37	25.27
378	3174.28	25.43
379	3197.64	25.36
380	3202.15	25.37
381	3206.67	25.43
382	3211.18	25.54
383	3224.98	25.55
384	3229.76	25.45
385	3234.54	25.35
386	3239.31	25.28
387	3243.73	25.23
388	3248.16	25.19
389	3252.58	25.16
390	3257.01	25.15
391	3261.43	25.15
392	3265.86	25.17
393	3270.28	25.18
394	3274.84	25.16
395	3279.39	25.15
396	3283.95	25.14
397	3288.50	25.14
398	3292.93	25.15
399	3297.36	25.16
400	3301.79	25.16
401	3306.66	25.15
402	3311.52	25.13
403	3316.39	25.11
404	3321.26	25.08
405	3326.12	25.06
406	3330.99	25.04
407	3335.88	25.01
408	3340.77	24.99
409	3345.66	24.96
410	3350.55	24.93
411	3355.44	24.91
412	3360.33	24.93
413	3365.22	24.98
414	3370.11	25.25
415	3375.00	25.33
416	3379.23	25.24
417	3383.46	25.17
418	3387.69	25.17
419	3391.92	25.24
420	3396.14	25.45
421	3400.37	25.50
422	3405.11	25.39
423	3409.84	25.30

Order	Station [ft]	Elevation [ft]
424	3414.58	25.28
425	3418.80	25.37
426	3423.02	25.51
427	3481.31	25.30
428	3485.85	25.13
429	3490.39	25.14
430	3494.93	25.24
431	3498.61	25.36
432	3502.29	25.47
433	3505.98	25.54
434	3510.10	25.54
435	3514.22	25.49
436	3518.34	25.61
437	3522.46	25.53
438	3526.58	25.49
439	3530.61	25.47
440	3534.65	25.44
441	3538.69	25.18
442	3543.32	25.12
443	3547.96	25.27
444	3552.59	25.44
445	3557.23	25.42
446	3561.76	25.31
447	3566.28	25.24
448	3570.81	25.22
449	3575.34	25.33
450	3579.60	25.25
451	3583.86	25.09
452	3588.11	25.23
453	3593.04	25.37
454	3597.97	25.39
455	3602.90	25.36
456	3607.83	25.36
457	3612.80	25.21
458	3617.77	24.95
459	3622.74	24.80
460	3627.71	24.80
461	3632.68	24.94
462	3637.64	25.13
463	3642.61	25.60
464	3757.35	25.44
465	3761.65	25.22
466	3765.94	25.42
467	3815.98	25.57
468	3820.54	25.43
469	3825.09	25.35
470	3829.65	25.19
471	3834.44	25.22
472	3839.22	25.30

Order	Station [ft]	Elevation [ft]
473	3844.01	25.40
474	3848.79	25.49
475	3853.58	25.51
476	3858.37	25.50
477	3863.15	25.58
478	4063.66	25.46
479	4068.54	25.33
480	4073.42	25.34
481	4078.29	25.26
482	4083.17	25.14
483	4088.05	25.03
484	4092.92	24.99
485	4097.80	25.00
486	4102.68	25.03
487	4107.56	25.08
488	4112.26	25.12
489	4116.97	25.18
490	4121.67	25.24
491	4126.38	25.31
492	4131.08	25.38
493	4135.79	25.43
494	4140.50	25.49
495	4145.20	25.55
496	4149.91	25.61

Comment:

Simulation: 3yr

Scenario: Scenario1  
Run Date/Time: N/A  
Program Version: N/A

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

Output Time Increments

## Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 5.50 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

#### Simulation: Mean Annual

Scenario: Scenario1  
 Run Date/Time: 8/30/2020 7:10:48 PM  
 Program Version: ICPR4 4.04.00

#### General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

#### Output Time Increments

##### Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

##### Restart File

Save Restart: False

#### Resources & Lookup Tables

##### Resources

Rainfall Folder:  
 Reference ET Folder:  
 Unit Hydrograph  
 Folder:

##### Lookup Tables

Boundary Stage Set:  
 Extern Hydrograph Set:  
 Curve Number Set: CN

Green-Ampt Set:  
 Vertical Layers Set:  
 Impervious Set: Default CN  
 Roughness Set:  
 Crop Coef Set:  
 Fillable Porosity Set:  
 Conductivity Set:  
 Leakage Set:

**Tolerances & Options**

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 5.00 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment:

**Simulation: SJRWMD 100Y-24H**

Scenario: Scenario1  
 Run Date/Time: 8/26/2020 4:22:51 PM  
 Program Version: ICPR4 4.04.00

**General**

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

**Output Time Increments**

## Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 10.56 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: St Johns River Water Management District 100Y-24H

Simulation: SJRWMD 25Y-24H

Scenario: Scenario1  
 Run Date/Time: 8/30/2020 7:19:52 PM  
 Program Version: ICPR4 4.04.00

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000
	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]	
Min Calculation Time:	60.0000	0.1000	900.0000	
Max Calculation Time:		30.0000		

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:  
 Reference ET Folder:  
 Unit Hydrograph  
 Folder:

Lookup Tables

Boundary Stage Set:  
 Extern Hydrograph Set:  
 Curve Number Set: CN



Green-Ampt Set:  
 Vertical Layers Set:  
 Impervious Set: Default CN  
 Roughness Set:  
 Crop Coef Set:  
 Fillable Porosity Set:  
 Conductivity Set:  
 Leakage Set:

**Tolerances & Options**

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: Global
Link Optimizer Tol: 0.0001 ft	Rainfall Name: ~FLMOD
	Rainfall Amount: 9.50 in
Edge Length Option: Automatic	Storm Duration: 24.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: St Johns River Water Management District 25Y-24H

**Simulation: Treatment Volume Recovery**

Scenario: Scenario1  
 Run Date/Time: 8/30/2020 6:54:46 PM  
 Program Version: ICPR4 4.04.00

**General**

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	40.0000

	Hydrology [sec]	Surface Hydraulics [sec]	Groundwater [sec]
Min Calculation Time:	60.0000	0.1000	900.0000
Max Calculation Time:		30.0000	

**Output Time Increments**

## Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

## Groundwater

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	360.0000

## Restart File

Save Restart: False

## Resources &amp; Lookup Tables

## Resources

Rainfall Folder:  
Reference ET Folder:  
Unit Hydrograph  
Folder:

## Lookup Tables

Boundary Stage Set:  
Extern Hydrograph Set:  
Curve Number Set: CN  
  
Green-Ampt Set:  
Vertical Layers Set:  
Impervious Set: Default CN  
Roughness Set:  
Crop Coef Set:  
Fillable Porosity Set:  
Conductivity Set:  
Leakage Set:

## Tolerances &amp; Options

Time Marching: SAOR	IA Recovery Time: 24.0000 hr
Max Iterations: 6	ET for Manual Basins: False
Over-Relax Weight 0.5 dec	
Fact:	
dZ Tolerance: 0.0010 ft	Manual Basin Rain Opt: Global
Max dZ: 1.0000 ft	OF Region Rain Opt: No Rainfall
Link Optimizer Tol: 0.0001 ft	Rainfall Name:
	Rainfall Amount: 0.00 in
Edge Length Option: Automatic	Storm Duration: 0.0000 hr
Dflt Damping (2D): 0.0050 ft	Dflt Damping (1D): 0.0050 ft
Min Node Srf Area 100 ft2	Min Node Srf Area 100 ft2
(2D):	(1D):
Energy Switch (2D): Energy	Energy Switch (1D): Energy

Comment: Treatment Volume Recovery

Sim	Node Name	Maximum Stage [ft]	Time to Maximum Stage [hrs]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
Mean Annual	Borrow Pit	25.65	14.3065	56.26	6.35
Mean Annual	Exist Wet Pond	25.42	13.8458	46.61	8.60
Mean Annual	I-95	23.56	15.4277	16.41	16.41
Mean Annual	NB01A	24.69	24.4580	62.65	7.03
Mean Annual	NB01B	24.27	15.3837	42.88	16.40
Mean Annual	NB01G	21.39	20.3543	5.09	5.65
Mean Annual	NB03B	24.94	12.9183	31.91	20.12
Mean Annual	NB3.2	21.44	20.3495	4.96	5.09
Mean Annual	NB3.5	21.37	20.3575	8.53	7.94
Mean Annual	NBSouth	24.70	24.5862	30.76	2.28
Mean Annual	Noffsite	15.00	0.0000	23.65	0.00
Mean Annual	Noffsite-S	24.50	0.0000	0.81	0.00
Mean Annual	Pond 3.1	25.19	20.6872	66.74	16.07
Mean Annual	Pond 3.2	25.19	20.8710	16.07	4.96
Mean Annual	Pond 3.3	25.48	17.8192	61.03	2.00
Mean Annual	Pond 3.4	25.39	13.8458	36.13	9.91
Mean Annual	Pond 3.5	25.48	17.8230	30.26	3.13
Mean Annual	Pond 3.6	25.40	13.8819	9.61	4.61
Mean Annual	Ramp I	24.05	15.3837	16.40	16.41
SJRWMD 25Y-24H	Borrow Pit	26.22	13.4140	112.14	29.40
SJRWMD 25Y-24H	Exist Wet Pond	26.50	13.6759	94.17	10.78
SJRWMD 25Y-24H	I-95	24.17	16.0301	27.59	27.59
SJRWMD 25Y-24H	NB01A	25.02	15.7706	132.30	31.45
SJRWMD 25Y-24H	NB01B	25.03	16.0301	140.00	30.81
SJRWMD 25Y-24H	NB01G	21.90	15.6843	13.97	14.16
SJRWMD 25Y-24H	NB03B	25.12	12.5623	73.49	63.12
SJRWMD 25Y-24H	NB3.2	21.99	16.0732	13.80	13.97
SJRWMD 25Y-24H	NB3.5	21.86	15.7169	25.86	25.48
SJRWMD 25Y-24H	NBSouth	24.91	15.4327	78.01	50.19

Sim	Node Name	Maximum Stage [ft]	Time to Maximum Stage [hrs]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
SJRWMD 25Y-24H	Noffsite	15.00	0.0000	53.04	0.00
SJRWMD 25Y-24H	Noffsite-S	24.50	0.0000	50.19	0.00
SJRWMD 25Y-24H	Pond 3.1	26.26	16.8933	147.46	34.15
SJRWMD 25Y-24H	Pond 3.2	26.22	17.0205	34.15	13.80
SJRWMD 25Y-24H	Pond 3.3	26.49	14.3341	119.81	7.99
SJRWMD 25Y-24H	Pond 3.4	26.40	15.6236	72.25	26.81
SJRWMD 25Y-24H	Pond 3.5	26.42	14.1889	60.98	12.21
SJRWMD 25Y-24H	Pond 3.6	26.43	14.7834	17.81	9.54
SJRWMD 25Y-24H	Ramp I	24.73	15.9828	27.59	27.59

## Alternative 3 - Treatment Volume Recovery

## Existing Pond, Ponds 3.4 & 3.6

1D Nodes - Aggregate

1

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	0.0000	0.00
Treatment Volume Recovery	0.2501	0.01
Treatment Volume Recovery	0.5000	0.03
Treatment Volume Recovery	0.7513	0.05
Treatment Volume Recovery	1.0009	0.07
Treatment Volume Recovery	1.2509	0.09
Treatment Volume Recovery	1.5013	0.11
Treatment Volume Recovery	1.7512	0.14
Treatment Volume Recovery	2.0010	0.16
Treatment Volume Recovery	2.2514	0.18
Treatment Volume Recovery	2.5026	0.20
Treatment Volume Recovery	2.7513	0.22
Treatment Volume Recovery	3.0003	0.24
Treatment Volume Recovery	3.2527	0.26
Treatment Volume Recovery	3.5010	0.28
Treatment Volume Recovery	3.7505	0.30
Treatment Volume Recovery	4.0022	0.32
Treatment Volume Recovery	4.2506	0.34
Treatment Volume Recovery	4.5034	0.36
Treatment Volume Recovery	4.7511	0.38
Treatment Volume Recovery	5.0016	0.40
Treatment Volume Recovery	5.2513	0.42
Treatment Volume Recovery	5.5007	0.44
Treatment Volume Recovery	5.7523	0.46
Treatment Volume Recovery	6.0005	0.48
Treatment Volume Recovery	6.2506	0.50
Treatment Volume Recovery	6.5000	0.52
Treatment Volume Recovery	6.7503	0.54
Treatment Volume Recovery	7.0005	0.56
Treatment Volume Recovery	7.2515	0.58
Treatment Volume Recovery	7.5025	0.60
Treatment Volume Recovery	7.7502	0.62
Treatment Volume Recovery	8.0001	0.64
Treatment Volume Recovery	8.2501	0.66
Treatment Volume Recovery	8.5001	0.68
Treatment Volume Recovery	8.7517	0.70
Treatment Volume Recovery	9.0003	0.72
Treatment Volume Recovery	9.2506	0.74
Treatment Volume Recovery	9.5009	0.76
Treatment Volume Recovery	9.7519	0.78
Treatment Volume Recovery	10.0001	0.80
Treatment Volume Recovery	10.2515	0.82

TV required = 3.96 ac-ft  
1/2 TV = 1.98 ac-ft

hr 24 = 1.86 ac-ft  
hr 30 = 2.30 ac-ft

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	10.5003	0.84
Treatment Volume Recovery	10.7504	0.86
Treatment Volume Recovery	11.0000	0.87
Treatment Volume Recovery	11.2515	0.89
Treatment Volume Recovery	11.5005	0.91
Treatment Volume Recovery	11.7509	0.93
Treatment Volume Recovery	12.0007	0.95
Treatment Volume Recovery	12.2501	0.97
Treatment Volume Recovery	12.5010	0.99
Treatment Volume Recovery	12.7504	1.01
Treatment Volume Recovery	13.0013	1.03
Treatment Volume Recovery	13.2504	1.05
Treatment Volume Recovery	13.5011	1.07
Treatment Volume Recovery	13.7520	1.09
Treatment Volume Recovery	14.0001	1.11
Treatment Volume Recovery	14.2518	1.13
Treatment Volume Recovery	14.5012	1.15
Treatment Volume Recovery	14.7531	1.17
Treatment Volume Recovery	15.0006	1.19
Treatment Volume Recovery	15.2513	1.20
Treatment Volume Recovery	15.5009	1.22
Treatment Volume Recovery	15.7507	1.24
Treatment Volume Recovery	16.0005	1.26
Treatment Volume Recovery	16.2515	1.28
Treatment Volume Recovery	16.5005	1.30
Treatment Volume Recovery	16.7511	1.32
Treatment Volume Recovery	17.0018	1.34
Treatment Volume Recovery	17.2505	1.36
Treatment Volume Recovery	17.5008	1.38
Treatment Volume Recovery	17.7508	1.40
Treatment Volume Recovery	18.0012	1.41
Treatment Volume Recovery	18.2515	1.43
Treatment Volume Recovery	18.5010	1.45
Treatment Volume Recovery	18.7502	1.47
Treatment Volume Recovery	19.0042	1.49
Treatment Volume Recovery	19.2508	1.51
Treatment Volume Recovery	19.5009	1.53
Treatment Volume Recovery	19.7504	1.55
Treatment Volume Recovery	20.0019	1.57
Treatment Volume Recovery	20.2512	1.58
Treatment Volume Recovery	20.5028	1.60
Treatment Volume Recovery	20.7524	1.62



Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	21.0029	1.64
Treatment Volume Recovery	21.2520	1.66
Treatment Volume Recovery	21.5012	1.68
Treatment Volume Recovery	21.7520	1.70
Treatment Volume Recovery	22.0005	1.72
Treatment Volume Recovery	22.2503	1.73
Treatment Volume Recovery	22.5017	1.75
Treatment Volume Recovery	22.7516	1.77
Treatment Volume Recovery	23.0013	1.79
Treatment Volume Recovery	23.2504	1.81
Treatment Volume Recovery	23.5005	1.83
Treatment Volume Recovery	23.7502	1.85
Treatment Volume Recovery	24.0010	1.86
Treatment Volume Recovery	24.2513	1.88
Treatment Volume Recovery	24.5045	1.90
Treatment Volume Recovery	24.7521	1.92
Treatment Volume Recovery	25.0020	1.94
Treatment Volume Recovery	25.2504	1.96
Treatment Volume Recovery	25.5015	1.97
Treatment Volume Recovery	25.7518	1.99
Treatment Volume Recovery	26.0022	2.01
Treatment Volume Recovery	26.2529	2.03
Treatment Volume Recovery	26.5006	2.05
Treatment Volume Recovery	26.7538	2.07
Treatment Volume Recovery	27.0006	2.08
Treatment Volume Recovery	27.2530	2.10
Treatment Volume Recovery	27.5011	2.12
Treatment Volume Recovery	27.7500	2.14
Treatment Volume Recovery	28.0004	2.16
Treatment Volume Recovery	28.2529	2.17
Treatment Volume Recovery	28.5015	2.19
Treatment Volume Recovery	28.7525	2.21
Treatment Volume Recovery	29.0019	2.23
Treatment Volume Recovery	29.2511	2.25
Treatment Volume Recovery	29.5034	2.26
Treatment Volume Recovery	29.7502	2.28
Treatment Volume Recovery	30.0005	2.30
Treatment Volume Recovery	30.2516	2.32
Treatment Volume Recovery	30.5022	2.34
Treatment Volume Recovery	30.7507	2.35
Treatment Volume Recovery	31.0018	2.37
Treatment Volume Recovery	31.2500	2.39

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	31.5011	2.41
Treatment Volume Recovery	31.7517	2.43
Treatment Volume Recovery	32.0010	2.44
Treatment Volume Recovery	32.2505	2.46
Treatment Volume Recovery	32.5007	2.48
Treatment Volume Recovery	32.7507	2.50
Treatment Volume Recovery	33.0015	2.51
Treatment Volume Recovery	33.2506	2.53
Treatment Volume Recovery	33.5034	2.55
Treatment Volume Recovery	33.7509	2.57
Treatment Volume Recovery	34.0009	2.58
Treatment Volume Recovery	34.2513	2.60
Treatment Volume Recovery	34.5034	2.62
Treatment Volume Recovery	34.7529	2.64
Treatment Volume Recovery	35.0002	2.65
Treatment Volume Recovery	35.2513	2.67
Treatment Volume Recovery	35.5015	2.69
Treatment Volume Recovery	35.7522	2.71
Treatment Volume Recovery	36.0010	2.72
Treatment Volume Recovery	36.2509	2.74
Treatment Volume Recovery	36.5022	2.76
Treatment Volume Recovery	36.7508	2.78
Treatment Volume Recovery	37.0022	2.79
Treatment Volume Recovery	37.2533	2.81
Treatment Volume Recovery	37.5040	2.83
Treatment Volume Recovery	37.7510	2.84
Treatment Volume Recovery	38.0001	2.86
Treatment Volume Recovery	38.2518	2.88
Treatment Volume Recovery	38.5009	2.90
Treatment Volume Recovery	38.7507	2.91
Treatment Volume Recovery	39.0019	2.93
Treatment Volume Recovery	39.2513	2.95
Treatment Volume Recovery	39.5007	2.96
Treatment Volume Recovery	39.7511	2.98
Treatment Volume Recovery	40.0036	3.00

## Ponds 3.1 & 3.2

1D Nodes - Aggregate

1

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	0.0000	0.00
Treatment Volume Recovery	0.2501	0.01
Treatment Volume Recovery	0.5000	0.02
Treatment Volume Recovery	0.7513	0.04
Treatment Volume Recovery	1.0009	0.05
Treatment Volume Recovery	1.2509	0.06
Treatment Volume Recovery	1.5013	0.08
Treatment Volume Recovery	1.7512	0.09
Treatment Volume Recovery	2.0010	0.10
Treatment Volume Recovery	2.2514	0.12
Treatment Volume Recovery	2.5026	0.13
Treatment Volume Recovery	2.7513	0.14
Treatment Volume Recovery	3.0003	0.16
Treatment Volume Recovery	3.2527	0.17
Treatment Volume Recovery	3.5010	0.18
Treatment Volume Recovery	3.7505	0.20
Treatment Volume Recovery	4.0022	0.21
Treatment Volume Recovery	4.2506	0.22
Treatment Volume Recovery	4.5034	0.24
Treatment Volume Recovery	4.7511	0.25
Treatment Volume Recovery	5.0016	0.26
Treatment Volume Recovery	5.2513	0.28
Treatment Volume Recovery	5.5007	0.29
Treatment Volume Recovery	5.7523	0.30
Treatment Volume Recovery	6.0005	0.32
Treatment Volume Recovery	6.2506	0.33
Treatment Volume Recovery	6.5000	0.34
Treatment Volume Recovery	6.7503	0.36
Treatment Volume Recovery	7.0005	0.37
Treatment Volume Recovery	7.2515	0.39
Treatment Volume Recovery	7.5025	0.40
Treatment Volume Recovery	7.7502	0.41
Treatment Volume Recovery	8.0001	0.43
Treatment Volume Recovery	8.2501	0.44
Treatment Volume Recovery	8.5001	0.45
Treatment Volume Recovery	8.7517	0.47
Treatment Volume Recovery	9.0003	0.48
Treatment Volume Recovery	9.2506	0.49
Treatment Volume Recovery	9.5009	0.51
Treatment Volume Recovery	9.7519	0.52
Treatment Volume Recovery	10.0001	0.53
Treatment Volume Recovery	10.2515	0.55

TV required = 3.04 ac-ft  
1/2 TV = 1.52 ac-ft

hr 24 = 1.32 ac-ft  
hr 30 = 1.66 ac-ft

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	10.5003	0.56
Treatment Volume Recovery	10.7504	0.58
Treatment Volume Recovery	11.0000	0.59
Treatment Volume Recovery	11.2515	0.60
Treatment Volume Recovery	11.5005	0.62
Treatment Volume Recovery	11.7509	0.63
Treatment Volume Recovery	12.0007	0.64
Treatment Volume Recovery	12.2501	0.66
Treatment Volume Recovery	12.5010	0.67
Treatment Volume Recovery	12.7504	0.69
Treatment Volume Recovery	13.0013	0.70
Treatment Volume Recovery	13.2504	0.71
Treatment Volume Recovery	13.5011	0.73
Treatment Volume Recovery	13.7520	0.74
Treatment Volume Recovery	14.0001	0.75
Treatment Volume Recovery	14.2518	0.77
Treatment Volume Recovery	14.5012	0.78
Treatment Volume Recovery	14.7531	0.80
Treatment Volume Recovery	15.0006	0.81
Treatment Volume Recovery	15.2513	0.82
Treatment Volume Recovery	15.5009	0.84
Treatment Volume Recovery	15.7507	0.85
Treatment Volume Recovery	16.0005	0.87
Treatment Volume Recovery	16.2515	0.88
Treatment Volume Recovery	16.5005	0.89
Treatment Volume Recovery	16.7511	0.91
Treatment Volume Recovery	17.0018	0.92
Treatment Volume Recovery	17.2505	0.93
Treatment Volume Recovery	17.5008	0.95
Treatment Volume Recovery	17.7508	0.96
Treatment Volume Recovery	18.0012	0.98
Treatment Volume Recovery	18.2515	0.99
Treatment Volume Recovery	18.5010	1.00
Treatment Volume Recovery	18.7502	1.02
Treatment Volume Recovery	19.0042	1.03
Treatment Volume Recovery	19.2508	1.05
Treatment Volume Recovery	19.5009	1.06
Treatment Volume Recovery	19.7504	1.08
Treatment Volume Recovery	20.0019	1.09
Treatment Volume Recovery	20.2512	1.10
Treatment Volume Recovery	20.5028	1.12
Treatment Volume Recovery	20.7524	1.13

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	21.0029	1.15
Treatment Volume Recovery	21.2520	1.16
Treatment Volume Recovery	21.5012	1.17
Treatment Volume Recovery	21.7520	1.19
Treatment Volume Recovery	22.0005	1.20
Treatment Volume Recovery	22.2503	1.22
Treatment Volume Recovery	22.5017	1.23
Treatment Volume Recovery	22.7516	1.25
Treatment Volume Recovery	23.0013	1.26
Treatment Volume Recovery	23.2504	1.27
Treatment Volume Recovery	23.5005	1.29
Treatment Volume Recovery	23.7502	1.30
Treatment Volume Recovery	24.0010	1.32
Treatment Volume Recovery	24.2513	1.33
Treatment Volume Recovery	24.5045	1.35
Treatment Volume Recovery	24.7521	1.36
Treatment Volume Recovery	25.0020	1.37
Treatment Volume Recovery	25.2504	1.39
Treatment Volume Recovery	25.5015	1.40
Treatment Volume Recovery	25.7518	1.42
Treatment Volume Recovery	26.0022	1.43
Treatment Volume Recovery	26.2529	1.45
Treatment Volume Recovery	26.5006	1.46
Treatment Volume Recovery	26.7538	1.47
Treatment Volume Recovery	27.0006	1.49
Treatment Volume Recovery	27.2530	1.50
Treatment Volume Recovery	27.5011	1.52
Treatment Volume Recovery	27.7500	1.53
Treatment Volume Recovery	28.0004	1.55
Treatment Volume Recovery	28.2529	1.56
Treatment Volume Recovery	28.5015	1.57
Treatment Volume Recovery	28.7525	1.59
Treatment Volume Recovery	29.0019	1.60
Treatment Volume Recovery	29.2511	1.62
Treatment Volume Recovery	29.5034	1.63
Treatment Volume Recovery	29.7502	1.65
Treatment Volume Recovery	30.0005	1.66
Treatment Volume Recovery	30.2516	1.67
Treatment Volume Recovery	30.5022	1.69
Treatment Volume Recovery	30.7507	1.70
Treatment Volume Recovery	31.0018	1.72
Treatment Volume Recovery	31.2500	1.73

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	31.5011	1.75
Treatment Volume Recovery	31.7517	1.76
Treatment Volume Recovery	32.0010	1.78
Treatment Volume Recovery	32.2505	1.79
Treatment Volume Recovery	32.5007	1.80
Treatment Volume Recovery	32.7507	1.82
Treatment Volume Recovery	33.0015	1.83
Treatment Volume Recovery	33.2506	1.85
Treatment Volume Recovery	33.5034	1.86
Treatment Volume Recovery	33.7509	1.88
Treatment Volume Recovery	34.0009	1.89
Treatment Volume Recovery	34.2513	1.91
Treatment Volume Recovery	34.5034	1.92
Treatment Volume Recovery	34.7529	1.94
Treatment Volume Recovery	35.0002	1.95
Treatment Volume Recovery	35.2513	1.96
Treatment Volume Recovery	35.5015	1.98
Treatment Volume Recovery	35.7522	1.99
Treatment Volume Recovery	36.0010	2.01
Treatment Volume Recovery	36.2509	2.02
Treatment Volume Recovery	36.5022	2.04
Treatment Volume Recovery	36.7508	2.05
Treatment Volume Recovery	37.0022	2.07
Treatment Volume Recovery	37.2533	2.08
Treatment Volume Recovery	37.5040	2.10
Treatment Volume Recovery	37.7510	2.11
Treatment Volume Recovery	38.0001	2.12
Treatment Volume Recovery	38.2518	2.14
Treatment Volume Recovery	38.5009	2.15
Treatment Volume Recovery	38.7507	2.17
Treatment Volume Recovery	39.0019	2.18
Treatment Volume Recovery	39.2513	2.20
Treatment Volume Recovery	39.5007	2.21
Treatment Volume Recovery	39.7511	2.23
Treatment Volume Recovery	40.0036	2.24

## Ponds 3.3 & 3.5

1D Nodes - Aggregate

1

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	0.0000	0.00
Treatment Volume Recovery	0.2501	0.01
Treatment Volume Recovery	0.5000	0.02
Treatment Volume Recovery	0.7513	0.03
Treatment Volume Recovery	1.0009	0.05
Treatment Volume Recovery	1.2509	0.06
Treatment Volume Recovery	1.5013	0.07
Treatment Volume Recovery	1.7512	0.08
Treatment Volume Recovery	2.0010	0.09
Treatment Volume Recovery	2.2514	0.10
Treatment Volume Recovery	2.5026	0.12
Treatment Volume Recovery	2.7513	0.13
Treatment Volume Recovery	3.0003	0.14
Treatment Volume Recovery	3.2527	0.15
Treatment Volume Recovery	3.5010	0.16
Treatment Volume Recovery	3.7505	0.18
Treatment Volume Recovery	4.0022	0.19
Treatment Volume Recovery	4.2506	0.20
Treatment Volume Recovery	4.5034	0.21
Treatment Volume Recovery	4.7511	0.22
Treatment Volume Recovery	5.0016	0.23
Treatment Volume Recovery	5.2513	0.25
Treatment Volume Recovery	5.5007	0.26
Treatment Volume Recovery	5.7523	0.27
Treatment Volume Recovery	6.0005	0.28
Treatment Volume Recovery	6.2506	0.29
Treatment Volume Recovery	6.5000	0.30
Treatment Volume Recovery	6.7503	0.32
Treatment Volume Recovery	7.0005	0.33
Treatment Volume Recovery	7.2515	0.34
Treatment Volume Recovery	7.5025	0.35
Treatment Volume Recovery	7.7502	0.36
Treatment Volume Recovery	8.0001	0.37
Treatment Volume Recovery	8.2501	0.39
Treatment Volume Recovery	8.5001	0.40
Treatment Volume Recovery	8.7517	0.41
Treatment Volume Recovery	9.0003	0.42
Treatment Volume Recovery	9.2506	0.43
Treatment Volume Recovery	9.5009	0.44
Treatment Volume Recovery	9.7519	0.46
Treatment Volume Recovery	10.0001	0.47
Treatment Volume Recovery	10.2515	0.48

TV required = 2.61 ac-ft  
1/2 TV = 1.31 ac-ft

hr 24 = 1.10 ac-ft  
hr 30 = 1.36 ac-ft

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	10.5003	0.49
Treatment Volume Recovery	10.7504	0.50
Treatment Volume Recovery	11.0000	0.51
Treatment Volume Recovery	11.2515	0.53
Treatment Volume Recovery	11.5005	0.54
Treatment Volume Recovery	11.7509	0.55
Treatment Volume Recovery	12.0007	0.56
Treatment Volume Recovery	12.2501	0.57
Treatment Volume Recovery	12.5010	0.58
Treatment Volume Recovery	12.7504	0.59
Treatment Volume Recovery	13.0013	0.61
Treatment Volume Recovery	13.2504	0.62
Treatment Volume Recovery	13.5011	0.63
Treatment Volume Recovery	13.7520	0.64
Treatment Volume Recovery	14.0001	0.65
Treatment Volume Recovery	14.2518	0.66
Treatment Volume Recovery	14.5012	0.67
Treatment Volume Recovery	14.7531	0.69
Treatment Volume Recovery	15.0006	0.70
Treatment Volume Recovery	15.2513	0.71
Treatment Volume Recovery	15.5009	0.72
Treatment Volume Recovery	15.7507	0.73
Treatment Volume Recovery	16.0005	0.74
Treatment Volume Recovery	16.2515	0.75
Treatment Volume Recovery	16.5005	0.76
Treatment Volume Recovery	16.7511	0.78
Treatment Volume Recovery	17.0018	0.79
Treatment Volume Recovery	17.2505	0.80
Treatment Volume Recovery	17.5008	0.81
Treatment Volume Recovery	17.7508	0.82
Treatment Volume Recovery	18.0012	0.83
Treatment Volume Recovery	18.2515	0.84
Treatment Volume Recovery	18.5010	0.85
Treatment Volume Recovery	18.7502	0.87
Treatment Volume Recovery	19.0042	0.88
Treatment Volume Recovery	19.2508	0.89
Treatment Volume Recovery	19.5009	0.90
Treatment Volume Recovery	19.7504	0.91
Treatment Volume Recovery	20.0019	0.92
Treatment Volume Recovery	20.2512	0.93
Treatment Volume Recovery	20.5028	0.94
Treatment Volume Recovery	20.7524	0.96



Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	21.0029	0.97
Treatment Volume Recovery	21.2520	0.98
Treatment Volume Recovery	21.5012	0.99
Treatment Volume Recovery	21.7520	1.00
Treatment Volume Recovery	22.0005	1.01
Treatment Volume Recovery	22.2503	1.02
Treatment Volume Recovery	22.5017	1.03
Treatment Volume Recovery	22.7516	1.04
Treatment Volume Recovery	23.0013	1.06
Treatment Volume Recovery	23.2504	1.07
Treatment Volume Recovery	23.5005	1.08
Treatment Volume Recovery	23.7502	1.09
Treatment Volume Recovery	24.0010	1.10
Treatment Volume Recovery	24.2513	1.11
Treatment Volume Recovery	24.5045	1.12
Treatment Volume Recovery	24.7521	1.13
Treatment Volume Recovery	25.0020	1.14
Treatment Volume Recovery	25.2504	1.15
Treatment Volume Recovery	25.5015	1.17
Treatment Volume Recovery	25.7518	1.18
Treatment Volume Recovery	26.0022	1.19
Treatment Volume Recovery	26.2529	1.20
Treatment Volume Recovery	26.5006	1.21
Treatment Volume Recovery	26.7538	1.22
Treatment Volume Recovery	27.0006	1.23
Treatment Volume Recovery	27.2530	1.24
Treatment Volume Recovery	27.5011	1.25
Treatment Volume Recovery	27.7500	1.26
Treatment Volume Recovery	28.0004	1.27
Treatment Volume Recovery	28.2529	1.28
Treatment Volume Recovery	28.5015	1.30
Treatment Volume Recovery	28.7525	1.31
Treatment Volume Recovery	29.0019	1.32
Treatment Volume Recovery	29.2511	1.33
Treatment Volume Recovery	29.5034	1.34
Treatment Volume Recovery	29.7502	1.35
Treatment Volume Recovery	30.0005	1.36
Treatment Volume Recovery	30.2516	1.37
Treatment Volume Recovery	30.5022	1.38
Treatment Volume Recovery	30.7507	1.39
Treatment Volume Recovery	31.0018	1.40
Treatment Volume Recovery	31.2500	1.41

Sim	Relative Time [hrs]	Total Outflow Volume [ac_ft]
Treatment Volume Recovery	31.5011	1.43
Treatment Volume Recovery	31.7517	1.44
Treatment Volume Recovery	32.0010	1.45
Treatment Volume Recovery	32.2505	1.46
Treatment Volume Recovery	32.5007	1.47
Treatment Volume Recovery	32.7507	1.48
Treatment Volume Recovery	33.0015	1.49
Treatment Volume Recovery	33.2506	1.50
Treatment Volume Recovery	33.5034	1.51
Treatment Volume Recovery	33.7509	1.52
Treatment Volume Recovery	34.0009	1.53
Treatment Volume Recovery	34.2513	1.54
Treatment Volume Recovery	34.5034	1.55
Treatment Volume Recovery	34.7529	1.56
Treatment Volume Recovery	35.0002	1.57
Treatment Volume Recovery	35.2513	1.58
Treatment Volume Recovery	35.5015	1.60
Treatment Volume Recovery	35.7522	1.61
Treatment Volume Recovery	36.0010	1.62
Treatment Volume Recovery	36.2509	1.63
Treatment Volume Recovery	36.5022	1.64
Treatment Volume Recovery	36.7508	1.65
Treatment Volume Recovery	37.0022	1.66
Treatment Volume Recovery	37.2533	1.67
Treatment Volume Recovery	37.5040	1.68
Treatment Volume Recovery	37.7510	1.69
Treatment Volume Recovery	38.0001	1.70
Treatment Volume Recovery	38.2518	1.71
Treatment Volume Recovery	38.5009	1.72
Treatment Volume Recovery	38.7507	1.73
Treatment Volume Recovery	39.0019	1.74
Treatment Volume Recovery	39.2513	1.75
Treatment Volume Recovery	39.5007	1.76
Treatment Volume Recovery	39.7511	1.77
Treatment Volume Recovery	40.0036	1.78

## Appendix D - Floodplain Calculations

## Pioneer Trail - Alternate 1

	Stations		Location	100 Yr Elevation	SHWT Elevation	Updated Floodplain Fill	Preliminary Compensatory Storage
				ft NAVD 88	ft NAVD 88	ac ft	ac ft
<b>NW Quadrant</b>	17+00	48+50	Pioneer Trail	24.50	23.37	0.74	0.40
	17+00	48+50	Existing Pond	24.50	23.37	1.21	0.00
	903+00	913+50	Ramp D	24.50	23.37	0.31	0.08
	903+00	914+00	Pond 1.5	24.50	24.16	0.17	0.00
	903+00	914+00	Pond 1.6	24.50	24.16	0.12	0.00
	802+00	80850	FPC-3	24.50	24.16	0.00	2.09
<b>NW QUADRANT TOTAL</b>						<b>2.55</b>	<b>2.57</b>
<b>SW QUADRANT</b>	17+00	48+50	Pioneer Trail	24.50	23.74	0.78	0.08
			Ramp A	24.50	23.74	2.07	0.00
	4701+00	4708+50	Pond 1.1 and 1.8	24.50	23.74	0.14	0.00
			FPC-2	24.50	23.74	0.00	2.05
<b>SW QUADRANT</b>						<b>2.99</b>	<b>2.13</b>
<b>NE QUADRANT</b>	52+00	76+50	Pioneer Trail	24.00	23.71	0.08	0.01
	265+50	270+50	Turnbull Bay	24.00	23.71	0.04	0.00
	801+50	820+50	Ramp H	24.00	23.71	1.02	0.18
			Pond 1.4 & 1.7	24.00	23.71	0.35	0.00
	804+00	808+00	FPC-1A	24.00	23.71	0.00	1.40
<b>NE QUADRANT</b>						<b>1.49</b>	<b>1.59</b>
<b>SE QUADRANT</b>	52+00	76+50	Pioneer Trail	24.25	23.56	0.55	0.03
			Ramp B	24.25	23.56	0.00	0.00
	52+00	58+50	Pond 1.2 & 1.3	24.25	23.56	0.00	0.00
	52+00	58+50	FPC-1B	24.25	23.56	0.00	1.75
<b>SE QUADRANT</b>						<b>0.55</b>	<b>1.78</b>
<b>Total FPC-1 and FPC-2 (NE &amp; SE &amp; SW Quadrant)</b>						<b>5.04</b>	<b>5.50</b>

## Pioneer Trail - Alternate 2

	Stations		Location	100 Yr	SHWT	Updated	Preliminary
				Elevation	Elevation	Floodplain Fill	Compensatory
				ft NAVD 88	ft NAVD 88	ac ft	Storage
							ac ft
<b>NW Quadrant</b>	17+00	48+50	Pioneer Trail	24.50	23.37	0.74	0.40
	17+00	48+50	Existing Pond	24.50	23.37	1.21	0.00
	903+00	913+50	Ramp I	24.50	23.37	0.31	0.08
	903+00	914+00	Pond 2.6	24.50	24.16	0.17	0.00
	903+00	914+00	Pond 2.7	24.50	24.16	0.12	0.00
	802+00	80850	FPC-3	24.50	24.16	0.00	2.09
<b>NW QUADRANT TOTAL</b>						<b>2.55</b>	<b>2.57</b>
<b>SW QUADRANT</b>	17+00	48+50	Pioneer Trail	24.50	23.74	0.78	0.08
	4677+00	4689+00	Ramp E	24.50	23.74	0.02	0.00
	508+00	530+50	Ramp E	24.50	23.74	1.68	0.00
	603+50	608+00	Ramp F	24.50	23.74	0.37	0.00
	4701+00	4708+50	Pond 2.1	24.50	23.74	0.09	0.00
	4696+00	4700+00	Pond 2.2	24.50	23.74	0.14	0.00
	514+00	522+50	FPC-2A	24.50	23.74	0.00	0.32
	514+00	522+50	FPC-2B	24.50	23.74	0.00	2.41
<b>SW QUADRANT</b>						<b>3.08</b>	<b>2.81</b>
<b>NE QUADRANT</b>	52+00	76+50	Pioneer Trail	24.00	23.71	0.08	0.01
	265+50	270+50	Turnbull Bay	24.00	23.71	0.04	0.00
	801+50	820+50	Ramp H	24.00	23.71	1.02	0.18
	4711+00	4717+50	Pond 2.5 & 2.8	24.00	23.71	0.35	0.00
	804+00	808+00	FPC-1A	24.00	23.71	0.00	1.40
<b>NE QUADRANT</b>						<b>1.49</b>	<b>1.59</b>
<b>SE QUADRANT</b>	52+00	76+50	Pioneer Trail	24.25	23.56	0.55	0.03
			Ramp G	24.25	23.56	0.00	0.00
	52+00	58+50	Pond 2.3 & 2.4	24.25	23.56	0.00	0.00
	52+00	58+50	FPC-1B	24.25	23.56	0.00	1.75
<b>SE QUADRANT</b>						<b>0.55</b>	<b>1.78</b>
<b>Total FPC-1 &amp; FPC-2 (NE &amp; SE &amp; SW Quadrant)</b>						<b>5.12</b>	<b>6.18</b>

## Pioneer Trail - Alternate 3

	Stations		Location	100 Yr Elevation	SHWT Elevation	Updated Floodplain Fill	Preliminary Compensatory Storage
				ft NAVD 88	ft NAVD 88	ac ft	ac ft
<b>NW Quadrant</b>	17+00	48+50	Pioneer Trail	24.50	23.37	0.74	0.40
	17+00	48+50	Existing Pond	24.50	23.37	1.21	0.00
	903+00	913+50	Ramp I	24.50	23.37	0.31	0.08
	903+00	914+00	Pond 3.4	24.50	24.16	0.17	0.00
	903+00	914+00	Pond 3.6	24.50	24.16	0.12	0.00
	802+00	80850	FPC-3	24.50	24.16	0.00	2.09
<b>NW QUADRANT TOTAL</b>						<b>2.55</b>	<b>2.57</b>
<b>SW QUADRANT</b>	17+00	48+50	Pioneer Trail	24.50	23.74	0.78	0.08
	4677+00	4689+00	Ramp E	24.50	23.74	0.02	0.00
	508+00	530+50	Ramp E	24.50	23.74	1.68	0.00
	603+50	608+00	Ramp F	24.50	23.74	0.37	0.00
	4701+00	4708+50	Pond 3.1	24.50	23.74	0.09	0.00
	4696+00	4700+00	Pond 3.2	24.50	23.74	0.14	0.00
	514+00	522+50	FPC-2A	24.50	23.74	0.00	0.30
	514+00	522+50	FPC-2B	24.50	23.74	0.00	2.41
<b>SW QUADRANT</b>						<b>3.08</b>	<b>2.79</b>
<b>NE QUADRANT</b>	52+00	76+50	Pioneer Trail	24.00	23.71	0.08	0.01
	265+50	270+50	Turnbull Bay	24.00	23.71	0.04	0.00
	703+00	707+50	Ramp G	24.00	23.71	0.18	0.00
	801+50	820+50	Ramp H	24.00	23.71	1.02	0.18
	4711+00	4717+50	Pond 3.3	24.00	23.71	0.17	0.00
	804+00	808+00	FPC-1A	24.00	23.71	0.00	1.40
<b>NE QUADRANT</b>						<b>1.49</b>	<b>1.59</b>
<b>SE QUADRANT</b>	52+00	76+50	Pioneer Trail	24.25	23.56	0.55	0.03
	52+00	58+50	Pond 3.5	24.25	23.56	0.00	0.00
		58+50	FPC-1B	24.25	23.56	0.00	1.74
<b>SE QUADRANT</b>						<b>0.55</b>	<b>1.77</b>
<b>Total FPC-1 &amp; FPC-2 (NE &amp; SE &amp; SW Quadrant)</b>						<b>5.12</b>	<b>6.15</b>

## Appendix E - Base Clearance Calculations

**PIONEER TRAIL BASE CLEARANCE SUMMARY**

	<b>Weir Elevation (ft)</b>	<b>Base Clearance Based on Weir Elevation (ft)</b>	<b>Max Stage (ft)</b>	<b>Time to Max Stage (hr)</b>	<b>+24 hours</b>	<b>Stage at +24 hours</b>	<b>Roadway Low Point (ft)</b>	<b>Base Clearance based on 25-yr, 24-hr storm (ft)</b>
<b>EX1</b>	24.94	2.56	26.40	13.48	37.48	25.43	29.00	2.07
<b>1.1</b>	24.94	3.95	26.16	16.64	40.64	25.35	30.39	3.54
<b>1.2</b>	24.92	2.58	26.50	12.84	36.84	25.57	29.00	1.93
<b>1.3</b>	24.92	2.58	26.45	13.02	37.02	25.56	29.00	1.94
<b>1.4</b>	25.1	2.59	26.45	12.70	36.70	25.59	29.19	2.10
<b>1.5</b>	24.94	2.75	26.29	14.13	38.13	25.41	29.19	2.28
<b>1.6</b>	24.94	2.75	26.35	13.61	37.61	25.42	29.19	2.27
<b>1.7</b>	25.1	2.59	26.30	16.48	40.48	25.51	29.19	2.18
<b>1.8</b>	24.94	3.56	26.15	16.89	40.89	25.86	30.00	2.64

	<b>Weir Elevation (ft)</b>	<b>Base Clearance Based on Weir Elevation (ft)</b>	<b>Max Stage (ft)</b>	<b>Time to Max Stage (hr)</b>	<b>+24 hours</b>	<b>Stage at +24 hours</b>	<b>Roadway Low Point (ft)</b>	<b>Base Clearance based on 25-yr, 24-hr storm (ft)</b>
<b>EX2</b>	24.94	2.56	26.45	13.69	37.69	25.04	29.00	2.46
<b>2.1</b>	24.21	4.68	26.11	15.88	39.88	24.78	30.39	4.11
<b>2.2</b>	24.21	4.68	25.90	16.41	40.41	24.74	30.39	4.15
<b>2.3</b>	24.91	2.59	26.36	15.11	39.11	25.43	29.00	2.07
<b>2.4</b>	24.91	2.59	26.32	15.25	39.25	25.42	29.00	2.08
<b>2.5</b>	24.91	2.78	26.40	15.41	39.41	25.42	29.19	2.27
<b>2.6</b>	24.94	2.75	26.31	14.64	38.64	25.00	29.19	2.69
<b>2.7</b>	24.94	2.75	26.37	14.20	38.20	25.01	29.19	2.68
<b>2.8</b>	24.91	2.78	26.40	15.65	39.65	25.45	29.19	2.24

	<b>Weir Elevation (ft)</b>	<b>Base Clearance Based on Weir Elevation (ft)</b>	<b>Max Stage (ft)</b>	<b>Time to Max Stage (hr)</b>	<b>+24 hours</b>	<b>Stage at +24 hours</b>	<b>Roadway Low Point (ft)</b>	<b>Base Clearance based on 25-yr, 24-hr storm (ft)</b>
<b>EX3</b>	24.94	2.56	26.50	13.68	37.68	25.42	29.00	2.08
<b>3.1</b>	24.22	4.67	26.26	16.89	40.89	25.25	30.39	3.64
<b>3.2</b>	24.22	4.67	26.22	17.02	41.02	25.24	30.39	3.65
<b>3.3</b>	24.90	2.79	26.49	14.33	38.33	25.36	29.19	2.33
<b>3.4</b>	24.94	2.75	26.40	15.62	39.62	25.35	29.19	2.34
<b>3.5</b>	24.90	2.60	26.42	14.19	38.19	25.36	29.00	2.14
<b>3.6</b>	24.94	2.75	26.43	14.78	38.78	25.38	29.19	2.31



Alternative 1

## Alternate 1

1D Nodes - Time Series

1

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	0.0000	24.36
SJRWMD 25Y-24H	Exist Wet Pond	0.2512	24.30
SJRWMD 25Y-24H	Exist Wet Pond	0.5002	24.24
SJRWMD 25Y-24H	Exist Wet Pond	0.7507	24.19
SJRWMD 25Y-24H	Exist Wet Pond	1.0008	24.15
SJRWMD 25Y-24H	Exist Wet Pond	1.2517	24.11
SJRWMD 25Y-24H	Exist Wet Pond	1.5006	24.09
SJRWMD 25Y-24H	Exist Wet Pond	1.7510	24.07
SJRWMD 25Y-24H	Exist Wet Pond	2.0004	24.06
SJRWMD 25Y-24H	Exist Wet Pond	2.2520	24.06
SJRWMD 25Y-24H	Exist Wet Pond	2.5029	24.06
SJRWMD 25Y-24H	Exist Wet Pond	2.7502	24.06
SJRWMD 25Y-24H	Exist Wet Pond	3.0011	24.07
SJRWMD 25Y-24H	Exist Wet Pond	3.2502	24.07
SJRWMD 25Y-24H	Exist Wet Pond	3.5010	24.07
SJRWMD 25Y-24H	Exist Wet Pond	3.7504	24.08
SJRWMD 25Y-24H	Exist Wet Pond	4.0013	24.08
SJRWMD 25Y-24H	Exist Wet Pond	4.2535	24.09
SJRWMD 25Y-24H	Exist Wet Pond	4.5015	24.10
SJRWMD 25Y-24H	Exist Wet Pond	4.7505	24.10
SJRWMD 25Y-24H	Exist Wet Pond	5.0021	24.11
SJRWMD 25Y-24H	Exist Wet Pond	5.2528	24.12
SJRWMD 25Y-24H	Exist Wet Pond	5.5008	24.13
SJRWMD 25Y-24H	Exist Wet Pond	5.7520	24.14
SJRWMD 25Y-24H	Exist Wet Pond	6.0040	24.15
SJRWMD 25Y-24H	Exist Wet Pond	6.2506	24.16
SJRWMD 25Y-24H	Exist Wet Pond	6.5021	24.17
SJRWMD 25Y-24H	Exist Wet Pond	6.7522	24.18
SJRWMD 25Y-24H	Exist Wet Pond	7.0029	24.19
SJRWMD 25Y-24H	Exist Wet Pond	7.2518	24.21
SJRWMD 25Y-24H	Exist Wet Pond	7.5020	24.22
SJRWMD 25Y-24H	Exist Wet Pond	7.7533	24.24
SJRWMD 25Y-24H	Exist Wet Pond	8.0008	24.25
SJRWMD 25Y-24H	Exist Wet Pond	8.2509	24.27
SJRWMD 25Y-24H	Exist Wet Pond	8.5025	24.29
SJRWMD 25Y-24H	Exist Wet Pond	8.7500	24.31
SJRWMD 25Y-24H	Exist Wet Pond	9.0046	24.33
SJRWMD 25Y-24H	Exist Wet Pond	9.2526	24.36
SJRWMD 25Y-24H	Exist Wet Pond	9.5034	24.38
SJRWMD 25Y-24H	Exist Wet Pond	9.7518	24.41
SJRWMD 25Y-24H	Exist Wet Pond	10.0002	24.43
SJRWMD 25Y-24H	Exist Wet Pond	10.2509	24.47

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	10.5024	24.50
SJRWMD 25Y-24H	Exist Wet Pond	10.7507	24.55
SJRWMD 25Y-24H	Exist Wet Pond	11.0003	24.59
SJRWMD 25Y-24H	Exist Wet Pond	11.2517	24.65
SJRWMD 25Y-24H	Exist Wet Pond	11.5008	24.72
SJRWMD 25Y-24H	Exist Wet Pond	11.7504	24.89
SJRWMD 25Y-24H	Exist Wet Pond	12.0001	25.30
SJRWMD 25Y-24H	Exist Wet Pond	12.2503	25.82
SJRWMD 25Y-24H	Exist Wet Pond	12.5003	26.14
SJRWMD 25Y-24H	Exist Wet Pond	12.7513	26.30
SJRWMD 25Y-24H	Exist Wet Pond	13.0007	26.37
SJRWMD 25Y-24H	Exist Wet Pond	13.2514	26.40
SJRWMD 25Y-24H	Exist Wet Pond	13.5009	26.40
SJRWMD 25Y-24H	Exist Wet Pond	13.7519	26.40
SJRWMD 25Y-24H	Exist Wet Pond	14.0031	26.39
SJRWMD 25Y-24H	Exist Wet Pond	14.2505	26.38
SJRWMD 25Y-24H	Exist Wet Pond	14.5007	26.37
SJRWMD 25Y-24H	Exist Wet Pond	14.7510	26.36
SJRWMD 25Y-24H	Exist Wet Pond	15.0012	26.35
SJRWMD 25Y-24H	Exist Wet Pond	15.2510	26.34
SJRWMD 25Y-24H	Exist Wet Pond	15.5006	26.33
SJRWMD 25Y-24H	Exist Wet Pond	15.7551	26.32
SJRWMD 25Y-24H	Exist Wet Pond	16.0017	26.31
SJRWMD 25Y-24H	Exist Wet Pond	16.2530	26.30
SJRWMD 25Y-24H	Exist Wet Pond	16.5001	26.29
SJRWMD 25Y-24H	Exist Wet Pond	16.7543	26.29
SJRWMD 25Y-24H	Exist Wet Pond	17.0010	26.28
SJRWMD 25Y-24H	Exist Wet Pond	17.2535	26.27
SJRWMD 25Y-24H	Exist Wet Pond	17.5012	26.26
SJRWMD 25Y-24H	Exist Wet Pond	17.7516	26.26
SJRWMD 25Y-24H	Exist Wet Pond	18.0034	26.25
SJRWMD 25Y-24H	Exist Wet Pond	18.2528	26.24
SJRWMD 25Y-24H	Exist Wet Pond	18.5015	26.23
SJRWMD 25Y-24H	Exist Wet Pond	18.7512	26.22
SJRWMD 25Y-24H	Exist Wet Pond	19.0039	26.22
SJRWMD 25Y-24H	Exist Wet Pond	19.2505	26.21
SJRWMD 25Y-24H	Exist Wet Pond	19.5009	26.20
SJRWMD 25Y-24H	Exist Wet Pond	19.7532	26.19
SJRWMD 25Y-24H	Exist Wet Pond	20.0021	26.18
SJRWMD 25Y-24H	Exist Wet Pond	20.2550	26.17
SJRWMD 25Y-24H	Exist Wet Pond	20.5016	26.16
SJRWMD 25Y-24H	Exist Wet Pond	20.7509	26.15

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	21.0030	26.14
SJRWMD 25Y-24H	Exist Wet Pond	21.2507	26.13
SJRWMD 25Y-24H	Exist Wet Pond	21.5027	26.13
SJRWMD 25Y-24H	Exist Wet Pond	21.7525	26.12
SJRWMD 25Y-24H	Exist Wet Pond	22.0035	26.11
SJRWMD 25Y-24H	Exist Wet Pond	22.2526	26.10
SJRWMD 25Y-24H	Exist Wet Pond	22.5036	26.09
SJRWMD 25Y-24H	Exist Wet Pond	22.7516	26.08
SJRWMD 25Y-24H	Exist Wet Pond	23.0009	26.07
SJRWMD 25Y-24H	Exist Wet Pond	23.2534	26.06
SJRWMD 25Y-24H	Exist Wet Pond	23.5002	26.05
SJRWMD 25Y-24H	Exist Wet Pond	23.7546	26.04
SJRWMD 25Y-24H	Exist Wet Pond	24.0003	26.03
SJRWMD 25Y-24H	Exist Wet Pond	24.2503	26.02
SJRWMD 25Y-24H	Exist Wet Pond	24.5023	26.01
SJRWMD 25Y-24H	Exist Wet Pond	24.7528	25.99
SJRWMD 25Y-24H	Exist Wet Pond	25.0005	25.97
SJRWMD 25Y-24H	Exist Wet Pond	25.2542	25.95
SJRWMD 25Y-24H	Exist Wet Pond	25.5003	25.94
SJRWMD 25Y-24H	Exist Wet Pond	25.7549	25.92
SJRWMD 25Y-24H	Exist Wet Pond	26.0011	25.90
SJRWMD 25Y-24H	Exist Wet Pond	26.2544	25.89
SJRWMD 25Y-24H	Exist Wet Pond	26.5021	25.87
SJRWMD 25Y-24H	Exist Wet Pond	26.7536	25.86
SJRWMD 25Y-24H	Exist Wet Pond	27.0001	25.84
SJRWMD 25Y-24H	Exist Wet Pond	27.2501	25.83
SJRWMD 25Y-24H	Exist Wet Pond	27.5033	25.81
SJRWMD 25Y-24H	Exist Wet Pond	27.7517	25.80
SJRWMD 25Y-24H	Exist Wet Pond	28.0023	25.79
SJRWMD 25Y-24H	Exist Wet Pond	28.2515	25.77
SJRWMD 25Y-24H	Exist Wet Pond	28.5015	25.76
SJRWMD 25Y-24H	Exist Wet Pond	28.7502	25.75
SJRWMD 25Y-24H	Exist Wet Pond	29.0013	25.73
SJRWMD 25Y-24H	Exist Wet Pond	29.2502	25.72
SJRWMD 25Y-24H	Exist Wet Pond	29.5003	25.71
SJRWMD 25Y-24H	Exist Wet Pond	29.7501	25.70
SJRWMD 25Y-24H	Exist Wet Pond	30.0016	25.69
SJRWMD 25Y-24H	Exist Wet Pond	30.2503	25.68
SJRWMD 25Y-24H	Exist Wet Pond	30.5008	25.67
SJRWMD 25Y-24H	Exist Wet Pond	30.7540	25.65
SJRWMD 25Y-24H	Exist Wet Pond	31.0006	25.64
SJRWMD 25Y-24H	Exist Wet Pond	31.2512	25.63

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	31.5037	25.62
SJRWMD 25Y-24H	Exist Wet Pond	31.7503	25.61
SJRWMD 25Y-24H	Exist Wet Pond	32.0024	25.60
SJRWMD 25Y-24H	Exist Wet Pond	32.2512	25.59
SJRWMD 25Y-24H	Exist Wet Pond	32.5015	25.58
SJRWMD 25Y-24H	Exist Wet Pond	32.7550	25.58
SJRWMD 25Y-24H	Exist Wet Pond	33.0005	25.57
SJRWMD 25Y-24H	Exist Wet Pond	33.2502	25.56
SJRWMD 25Y-24H	Exist Wet Pond	33.5007	25.55
SJRWMD 25Y-24H	Exist Wet Pond	33.7501	25.54
SJRWMD 25Y-24H	Exist Wet Pond	34.0007	25.53
SJRWMD 25Y-24H	Exist Wet Pond	34.2523	25.52
SJRWMD 25Y-24H	Exist Wet Pond	34.5008	25.52
SJRWMD 25Y-24H	Exist Wet Pond	34.7500	25.51
SJRWMD 25Y-24H	Exist Wet Pond	35.0010	25.50
SJRWMD 25Y-24H	Exist Wet Pond	35.2501	25.49
SJRWMD 25Y-24H	Exist Wet Pond	35.5043	25.48
SJRWMD 25Y-24H	Exist Wet Pond	35.7519	25.48
SJRWMD 25Y-24H	Exist Wet Pond	36.0053	25.47
SJRWMD 25Y-24H	Exist Wet Pond	36.2513	25.46
SJRWMD 25Y-24H	Exist Wet Pond	36.5013	25.46
SJRWMD 25Y-24H	Exist Wet Pond	36.7509	25.45
SJRWMD 25Y-24H	Exist Wet Pond	37.0005	25.44
SJRWMD 25Y-24H	Exist Wet Pond	37.2528	25.43
SJRWMD 25Y-24H	Exist Wet Pond	37.5010	25.43
SJRWMD 25Y-24H	Exist Wet Pond	37.7512	25.42
SJRWMD 25Y-24H	Exist Wet Pond	38.0001	25.42
SJRWMD 25Y-24H	Exist Wet Pond	38.2506	25.41
SJRWMD 25Y-24H	Exist Wet Pond	38.5012	25.40
SJRWMD 25Y-24H	Exist Wet Pond	38.7517	25.40
SJRWMD 25Y-24H	Exist Wet Pond	39.0031	25.39
SJRWMD 25Y-24H	Exist Wet Pond	39.2520	25.39
SJRWMD 25Y-24H	Exist Wet Pond	39.5009	25.38
SJRWMD 25Y-24H	Exist Wet Pond	39.7545	25.37
SJRWMD 25Y-24H	Exist Wet Pond	40.0028	25.37
SJRWMD 25Y-24H	Exist Wet Pond	40.2531	25.36
SJRWMD 25Y-24H	Exist Wet Pond	40.5036	25.36
SJRWMD 25Y-24H	Exist Wet Pond	40.7509	25.35
SJRWMD 25Y-24H	Exist Wet Pond	41.0015	25.35
SJRWMD 25Y-24H	Exist Wet Pond	41.2504	25.34
SJRWMD 25Y-24H	Exist Wet Pond	41.5031	25.34
SJRWMD 25Y-24H	Exist Wet Pond	41.7531	25.33

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	42.0011	25.33
SJRWMD 25Y-24H	Exist Wet Pond	42.2526	25.32
SJRWMD 25Y-24H	Exist Wet Pond	42.5052	25.32
SJRWMD 25Y-24H	Exist Wet Pond	42.7580	25.31
SJRWMD 25Y-24H	Exist Wet Pond	43.0080	25.31
SJRWMD 25Y-24H	Exist Wet Pond	43.2580	25.30
SJRWMD 25Y-24H	Exist Wet Pond	43.5080	25.30
SJRWMD 25Y-24H	Exist Wet Pond	43.7580	25.29
SJRWMD 25Y-24H	Exist Wet Pond	44.0080	25.29
SJRWMD 25Y-24H	Exist Wet Pond	44.2580	25.29
SJRWMD 25Y-24H	Exist Wet Pond	44.5080	25.28
SJRWMD 25Y-24H	Exist Wet Pond	44.7580	25.28
SJRWMD 25Y-24H	Exist Wet Pond	45.0080	25.27
SJRWMD 25Y-24H	Exist Wet Pond	45.2580	25.27
SJRWMD 25Y-24H	Exist Wet Pond	45.5080	25.26
SJRWMD 25Y-24H	Exist Wet Pond	45.7580	25.26
SJRWMD 25Y-24H	Exist Wet Pond	46.0038	25.26
SJRWMD 25Y-24H	Exist Wet Pond	46.2580	25.25
SJRWMD 25Y-24H	Exist Wet Pond	46.5012	25.25
SJRWMD 25Y-24H	Exist Wet Pond	46.7504	25.25
SJRWMD 25Y-24H	Exist Wet Pond	47.0011	25.24
SJRWMD 25Y-24H	Exist Wet Pond	47.2544	25.24
SJRWMD 25Y-24H	Exist Wet Pond	47.5042	25.23
SJRWMD 25Y-24H	Exist Wet Pond	47.7504	25.23
SJRWMD 25Y-24H	Exist Wet Pond	48.0009	25.23
SJRWMD 25Y-24H	Pond 1.1	0.0000	23.74
SJRWMD 25Y-24H	Pond 1.1	0.2512	23.86
SJRWMD 25Y-24H	Pond 1.1	0.5002	23.92
SJRWMD 25Y-24H	Pond 1.1	0.7507	23.96
SJRWMD 25Y-24H	Pond 1.1	1.0008	23.99
SJRWMD 25Y-24H	Pond 1.1	1.2517	24.02
SJRWMD 25Y-24H	Pond 1.1	1.5006	24.04
SJRWMD 25Y-24H	Pond 1.1	1.7510	24.05
SJRWMD 25Y-24H	Pond 1.1	2.0004	24.06
SJRWMD 25Y-24H	Pond 1.1	2.2520	24.06
SJRWMD 25Y-24H	Pond 1.1	2.5029	24.06
SJRWMD 25Y-24H	Pond 1.1	2.7502	24.06
SJRWMD 25Y-24H	Pond 1.1	3.0011	24.06
SJRWMD 25Y-24H	Pond 1.1	3.2502	24.07
SJRWMD 25Y-24H	Pond 1.1	3.5010	24.07
SJRWMD 25Y-24H	Pond 1.1	3.7504	24.07
SJRWMD 25Y-24H	Pond 1.1	4.0013	24.08

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.1	4.2535	24.08
SJRWMD 25Y-24H	Pond 1.1	4.5015	24.09
SJRWMD 25Y-24H	Pond 1.1	4.7505	24.10
SJRWMD 25Y-24H	Pond 1.1	5.0021	24.11
SJRWMD 25Y-24H	Pond 1.1	5.2528	24.11
SJRWMD 25Y-24H	Pond 1.1	5.5008	24.12
SJRWMD 25Y-24H	Pond 1.1	5.7520	24.13
SJRWMD 25Y-24H	Pond 1.1	6.0040	24.14
SJRWMD 25Y-24H	Pond 1.1	6.2506	24.15
SJRWMD 25Y-24H	Pond 1.1	6.5021	24.16
SJRWMD 25Y-24H	Pond 1.1	6.7522	24.18
SJRWMD 25Y-24H	Pond 1.1	7.0029	24.19
SJRWMD 25Y-24H	Pond 1.1	7.2518	24.20
SJRWMD 25Y-24H	Pond 1.1	7.5020	24.22
SJRWMD 25Y-24H	Pond 1.1	7.7533	24.23
SJRWMD 25Y-24H	Pond 1.1	8.0008	24.25
SJRWMD 25Y-24H	Pond 1.1	8.2509	24.26
SJRWMD 25Y-24H	Pond 1.1	8.5025	24.28
SJRWMD 25Y-24H	Pond 1.1	8.7500	24.30
SJRWMD 25Y-24H	Pond 1.1	9.0046	24.32
SJRWMD 25Y-24H	Pond 1.1	9.2526	24.35
SJRWMD 25Y-24H	Pond 1.1	9.5034	24.37
SJRWMD 25Y-24H	Pond 1.1	9.7518	24.40
SJRWMD 25Y-24H	Pond 1.1	10.0002	24.43
SJRWMD 25Y-24H	Pond 1.1	10.2509	24.46
SJRWMD 25Y-24H	Pond 1.1	10.5024	24.49
SJRWMD 25Y-24H	Pond 1.1	10.7507	24.54
SJRWMD 25Y-24H	Pond 1.1	11.0003	24.58
SJRWMD 25Y-24H	Pond 1.1	11.2517	24.63
SJRWMD 25Y-24H	Pond 1.1	11.5008	24.70
SJRWMD 25Y-24H	Pond 1.1	11.7504	24.91
SJRWMD 25Y-24H	Pond 1.1	12.0001	25.39
SJRWMD 25Y-24H	Pond 1.1	12.2503	25.84
SJRWMD 25Y-24H	Pond 1.1	12.5003	25.98
SJRWMD 25Y-24H	Pond 1.1	12.7513	26.03
SJRWMD 25Y-24H	Pond 1.1	13.0007	26.00
SJRWMD 25Y-24H	Pond 1.1	13.2514	25.98
SJRWMD 25Y-24H	Pond 1.1	13.5009	25.98
SJRWMD 25Y-24H	Pond 1.1	13.7519	26.00
SJRWMD 25Y-24H	Pond 1.1	14.0031	26.02
SJRWMD 25Y-24H	Pond 1.1	14.2505	26.04
SJRWMD 25Y-24H	Pond 1.1	14.5007	26.06

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.1	14.7510	26.08
SJRWMD 25Y-24H	Pond 1.1	15.0012	26.10
SJRWMD 25Y-24H	Pond 1.1	15.2510	26.12
SJRWMD 25Y-24H	Pond 1.1	15.5006	26.13
SJRWMD 25Y-24H	Pond 1.1	15.7551	26.14
SJRWMD 25Y-24H	Pond 1.1	16.0017	26.15
SJRWMD 25Y-24H	Pond 1.1	16.2530	26.15
SJRWMD 25Y-24H	Pond 1.1	16.5001	26.15
SJRWMD 25Y-24H	Pond 1.1	16.7543	26.16
SJRWMD 25Y-24H	Pond 1.1	17.0010	26.15
SJRWMD 25Y-24H	Pond 1.1	17.2535	26.15
SJRWMD 25Y-24H	Pond 1.1	17.5012	26.15
SJRWMD 25Y-24H	Pond 1.1	17.7516	26.15
SJRWMD 25Y-24H	Pond 1.1	18.0034	26.14
SJRWMD 25Y-24H	Pond 1.1	18.2528	26.14
SJRWMD 25Y-24H	Pond 1.1	18.5015	26.13
SJRWMD 25Y-24H	Pond 1.1	18.7512	26.13
SJRWMD 25Y-24H	Pond 1.1	19.0039	26.12
SJRWMD 25Y-24H	Pond 1.1	19.2505	26.11
SJRWMD 25Y-24H	Pond 1.1	19.5009	26.11
SJRWMD 25Y-24H	Pond 1.1	19.7532	26.10
SJRWMD 25Y-24H	Pond 1.1	20.0021	26.09
SJRWMD 25Y-24H	Pond 1.1	20.2550	26.09
SJRWMD 25Y-24H	Pond 1.1	20.5016	26.08
SJRWMD 25Y-24H	Pond 1.1	20.7509	26.07
SJRWMD 25Y-24H	Pond 1.1	21.0030	26.06
SJRWMD 25Y-24H	Pond 1.1	21.2507	26.05
SJRWMD 25Y-24H	Pond 1.1	21.5027	26.05
SJRWMD 25Y-24H	Pond 1.1	21.7525	26.04
SJRWMD 25Y-24H	Pond 1.1	22.0035	26.03
SJRWMD 25Y-24H	Pond 1.1	22.2526	26.03
SJRWMD 25Y-24H	Pond 1.1	22.5036	26.02
SJRWMD 25Y-24H	Pond 1.1	22.7516	26.01
SJRWMD 25Y-24H	Pond 1.1	23.0009	26.00
SJRWMD 25Y-24H	Pond 1.1	23.2534	26.00
SJRWMD 25Y-24H	Pond 1.1	23.5002	25.99
SJRWMD 25Y-24H	Pond 1.1	23.7546	25.98
SJRWMD 25Y-24H	Pond 1.1	24.0003	25.97
SJRWMD 25Y-24H	Pond 1.1	24.2503	25.96
SJRWMD 25Y-24H	Pond 1.1	24.5023	25.95
SJRWMD 25Y-24H	Pond 1.1	24.7528	25.93
SJRWMD 25Y-24H	Pond 1.1	25.0005	25.92



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.1	25.2542	25.90
SJRWMD 25Y-24H	Pond 1.1	25.5003	25.89
SJRWMD 25Y-24H	Pond 1.1	25.7549	25.87
SJRWMD 25Y-24H	Pond 1.1	26.0011	25.86
SJRWMD 25Y-24H	Pond 1.1	26.2544	25.85
SJRWMD 25Y-24H	Pond 1.1	26.5021	25.83
SJRWMD 25Y-24H	Pond 1.1	26.7536	25.82
SJRWMD 25Y-24H	Pond 1.1	27.0001	25.81
SJRWMD 25Y-24H	Pond 1.1	27.2501	25.79
SJRWMD 25Y-24H	Pond 1.1	27.5033	25.78
SJRWMD 25Y-24H	Pond 1.1	27.7517	25.77
SJRWMD 25Y-24H	Pond 1.1	28.0023	25.75
SJRWMD 25Y-24H	Pond 1.1	28.2515	25.74
SJRWMD 25Y-24H	Pond 1.1	28.5015	25.73
SJRWMD 25Y-24H	Pond 1.1	28.7502	25.72
SJRWMD 25Y-24H	Pond 1.1	29.0013	25.71
SJRWMD 25Y-24H	Pond 1.1	29.2502	25.70
SJRWMD 25Y-24H	Pond 1.1	29.5003	25.69
SJRWMD 25Y-24H	Pond 1.1	29.7501	25.67
SJRWMD 25Y-24H	Pond 1.1	30.0016	25.66
SJRWMD 25Y-24H	Pond 1.1	30.2503	25.65
SJRWMD 25Y-24H	Pond 1.1	30.5008	25.64
SJRWMD 25Y-24H	Pond 1.1	30.7540	25.63
SJRWMD 25Y-24H	Pond 1.1	31.0006	25.62
SJRWMD 25Y-24H	Pond 1.1	31.2512	25.61
SJRWMD 25Y-24H	Pond 1.1	31.5037	25.60
SJRWMD 25Y-24H	Pond 1.1	31.7503	25.59
SJRWMD 25Y-24H	Pond 1.1	32.0024	25.59
SJRWMD 25Y-24H	Pond 1.1	32.2512	25.58
SJRWMD 25Y-24H	Pond 1.1	32.5015	25.57
SJRWMD 25Y-24H	Pond 1.1	32.7550	25.56
SJRWMD 25Y-24H	Pond 1.1	33.0005	25.55
SJRWMD 25Y-24H	Pond 1.1	33.2502	25.54
SJRWMD 25Y-24H	Pond 1.1	33.5007	25.53
SJRWMD 25Y-24H	Pond 1.1	33.7501	25.53
SJRWMD 25Y-24H	Pond 1.1	34.0007	25.52
SJRWMD 25Y-24H	Pond 1.1	34.2523	25.51
SJRWMD 25Y-24H	Pond 1.1	34.5008	25.50
SJRWMD 25Y-24H	Pond 1.1	34.7500	25.49
SJRWMD 25Y-24H	Pond 1.1	35.0010	25.49
SJRWMD 25Y-24H	Pond 1.1	35.2501	25.48
SJRWMD 25Y-24H	Pond 1.1	35.5043	25.47

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.1	35.7519	25.46
SJRWMD 25Y-24H	Pond 1.1	36.0053	25.46
SJRWMD 25Y-24H	Pond 1.1	36.2513	25.45
SJRWMD 25Y-24H	Pond 1.1	36.5013	25.44
SJRWMD 25Y-24H	Pond 1.1	36.7509	25.44
SJRWMD 25Y-24H	Pond 1.1	37.0005	25.43
SJRWMD 25Y-24H	Pond 1.1	37.2528	25.42
SJRWMD 25Y-24H	Pond 1.1	37.5010	25.42
SJRWMD 25Y-24H	Pond 1.1	37.7512	25.41
SJRWMD 25Y-24H	Pond 1.1	38.0001	25.41
SJRWMD 25Y-24H	Pond 1.1	38.2506	25.40
SJRWMD 25Y-24H	Pond 1.1	38.5012	25.39
SJRWMD 25Y-24H	Pond 1.1	38.7517	25.39
SJRWMD 25Y-24H	Pond 1.1	39.0031	25.38
SJRWMD 25Y-24H	Pond 1.1	39.2520	25.38
SJRWMD 25Y-24H	Pond 1.1	39.5009	25.37
SJRWMD 25Y-24H	Pond 1.1	39.7545	25.36
SJRWMD 25Y-24H	Pond 1.1	40.0028	25.36
SJRWMD 25Y-24H	Pond 1.1	40.2531	25.35
SJRWMD 25Y-24H	Pond 1.1	40.5036	25.35
SJRWMD 25Y-24H	Pond 1.1	40.7509	25.34
SJRWMD 25Y-24H	Pond 1.1	41.0015	25.34
SJRWMD 25Y-24H	Pond 1.1	41.2504	25.33
SJRWMD 25Y-24H	Pond 1.1	41.5031	25.33
SJRWMD 25Y-24H	Pond 1.1	41.7531	25.32
SJRWMD 25Y-24H	Pond 1.1	42.0011	25.32
SJRWMD 25Y-24H	Pond 1.1	42.2526	25.31
SJRWMD 25Y-24H	Pond 1.1	42.5052	25.31
SJRWMD 25Y-24H	Pond 1.1	42.7580	25.30
SJRWMD 25Y-24H	Pond 1.1	43.0080	25.30
SJRWMD 25Y-24H	Pond 1.1	43.2580	25.29
SJRWMD 25Y-24H	Pond 1.1	43.5080	25.29
SJRWMD 25Y-24H	Pond 1.1	43.7580	25.29
SJRWMD 25Y-24H	Pond 1.1	44.0080	25.28
SJRWMD 25Y-24H	Pond 1.1	44.2580	25.28
SJRWMD 25Y-24H	Pond 1.1	44.5080	25.27
SJRWMD 25Y-24H	Pond 1.1	44.7580	25.27
SJRWMD 25Y-24H	Pond 1.1	45.0080	25.27
SJRWMD 25Y-24H	Pond 1.1	45.2580	25.26
SJRWMD 25Y-24H	Pond 1.1	45.5080	25.26
SJRWMD 25Y-24H	Pond 1.1	45.7580	25.25
SJRWMD 25Y-24H	Pond 1.1	46.0038	25.25

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.1	46.2580	25.25
SJRWMD 25Y-24H	Pond 1.1	46.5012	25.24
SJRWMD 25Y-24H	Pond 1.1	46.7504	25.24
SJRWMD 25Y-24H	Pond 1.1	47.0011	25.23
SJRWMD 25Y-24H	Pond 1.1	47.2544	25.23
SJRWMD 25Y-24H	Pond 1.1	47.5042	25.23
SJRWMD 25Y-24H	Pond 1.1	47.7504	25.22
SJRWMD 25Y-24H	Pond 1.1	48.0009	25.22
SJRWMD 25Y-24H	Pond 1.2	0.0000	24.29
SJRWMD 25Y-24H	Pond 1.2	0.2512	24.29
SJRWMD 25Y-24H	Pond 1.2	0.5002	24.29
SJRWMD 25Y-24H	Pond 1.2	0.7507	24.29
SJRWMD 25Y-24H	Pond 1.2	1.0008	24.29
SJRWMD 25Y-24H	Pond 1.2	1.2517	24.29
SJRWMD 25Y-24H	Pond 1.2	1.5006	24.29
SJRWMD 25Y-24H	Pond 1.2	1.7510	24.29
SJRWMD 25Y-24H	Pond 1.2	2.0004	24.29
SJRWMD 25Y-24H	Pond 1.2	2.2520	24.29
SJRWMD 25Y-24H	Pond 1.2	2.5029	24.29
SJRWMD 25Y-24H	Pond 1.2	2.7502	24.29
SJRWMD 25Y-24H	Pond 1.2	3.0011	24.30
SJRWMD 25Y-24H	Pond 1.2	3.2502	24.30
SJRWMD 25Y-24H	Pond 1.2	3.5010	24.31
SJRWMD 25Y-24H	Pond 1.2	3.7504	24.31
SJRWMD 25Y-24H	Pond 1.2	4.0013	24.32
SJRWMD 25Y-24H	Pond 1.2	4.2535	24.32
SJRWMD 25Y-24H	Pond 1.2	4.5015	24.33
SJRWMD 25Y-24H	Pond 1.2	4.7505	24.34
SJRWMD 25Y-24H	Pond 1.2	5.0021	24.35
SJRWMD 25Y-24H	Pond 1.2	5.2528	24.36
SJRWMD 25Y-24H	Pond 1.2	5.5008	24.37
SJRWMD 25Y-24H	Pond 1.2	5.7520	24.38
SJRWMD 25Y-24H	Pond 1.2	6.0040	24.39
SJRWMD 25Y-24H	Pond 1.2	6.2506	24.40
SJRWMD 25Y-24H	Pond 1.2	6.5021	24.41
SJRWMD 25Y-24H	Pond 1.2	6.7522	24.43
SJRWMD 25Y-24H	Pond 1.2	7.0029	24.44
SJRWMD 25Y-24H	Pond 1.2	7.2518	24.45
SJRWMD 25Y-24H	Pond 1.2	7.5020	24.47
SJRWMD 25Y-24H	Pond 1.2	7.7533	24.49
SJRWMD 25Y-24H	Pond 1.2	8.0008	24.51
SJRWMD 25Y-24H	Pond 1.2	8.2509	24.52

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.2	8.5025	24.54
SJRWMD 25Y-24H	Pond 1.2	8.7500	24.57
SJRWMD 25Y-24H	Pond 1.2	9.0046	24.59
SJRWMD 25Y-24H	Pond 1.2	9.2526	24.62
SJRWMD 25Y-24H	Pond 1.2	9.5034	24.64
SJRWMD 25Y-24H	Pond 1.2	9.7518	24.67
SJRWMD 25Y-24H	Pond 1.2	10.0002	24.70
SJRWMD 25Y-24H	Pond 1.2	10.2509	24.74
SJRWMD 25Y-24H	Pond 1.2	10.5024	24.78
SJRWMD 25Y-24H	Pond 1.2	10.7507	24.83
SJRWMD 25Y-24H	Pond 1.2	11.0003	24.88
SJRWMD 25Y-24H	Pond 1.2	11.2517	24.94
SJRWMD 25Y-24H	Pond 1.2	11.5008	25.02
SJRWMD 25Y-24H	Pond 1.2	11.7504	25.23
SJRWMD 25Y-24H	Pond 1.2	12.0001	25.70
SJRWMD 25Y-24H	Pond 1.2	12.2503	26.19
SJRWMD 25Y-24H	Pond 1.2	12.5003	26.42
SJRWMD 25Y-24H	Pond 1.2	12.7513	26.49
SJRWMD 25Y-24H	Pond 1.2	13.0007	26.49
SJRWMD 25Y-24H	Pond 1.2	13.2514	26.46
SJRWMD 25Y-24H	Pond 1.2	13.5009	26.42
SJRWMD 25Y-24H	Pond 1.2	13.7519	26.38
SJRWMD 25Y-24H	Pond 1.2	14.0031	26.34
SJRWMD 25Y-24H	Pond 1.2	14.2505	26.31
SJRWMD 25Y-24H	Pond 1.2	14.5007	26.29
SJRWMD 25Y-24H	Pond 1.2	14.7510	26.27
SJRWMD 25Y-24H	Pond 1.2	15.0012	26.27
SJRWMD 25Y-24H	Pond 1.2	15.2510	26.26
SJRWMD 25Y-24H	Pond 1.2	15.5006	26.26
SJRWMD 25Y-24H	Pond 1.2	15.7551	26.26
SJRWMD 25Y-24H	Pond 1.2	16.0017	26.26
SJRWMD 25Y-24H	Pond 1.2	16.2530	26.26
SJRWMD 25Y-24H	Pond 1.2	16.5001	26.26
SJRWMD 25Y-24H	Pond 1.2	16.7543	26.25
SJRWMD 25Y-24H	Pond 1.2	17.0010	26.25
SJRWMD 25Y-24H	Pond 1.2	17.2535	26.25
SJRWMD 25Y-24H	Pond 1.2	17.5012	26.24
SJRWMD 25Y-24H	Pond 1.2	17.7516	26.24
SJRWMD 25Y-24H	Pond 1.2	18.0034	26.24
SJRWMD 25Y-24H	Pond 1.2	18.2528	26.23
SJRWMD 25Y-24H	Pond 1.2	18.5015	26.23
SJRWMD 25Y-24H	Pond 1.2	18.7512	26.22

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.2	19.0039	26.22
SJRWMD 25Y-24H	Pond 1.2	19.2505	26.21
SJRWMD 25Y-24H	Pond 1.2	19.5009	26.21
SJRWMD 25Y-24H	Pond 1.2	19.7532	26.20
SJRWMD 25Y-24H	Pond 1.2	20.0021	26.20
SJRWMD 25Y-24H	Pond 1.2	20.2550	26.19
SJRWMD 25Y-24H	Pond 1.2	20.5016	26.18
SJRWMD 25Y-24H	Pond 1.2	20.7509	26.17
SJRWMD 25Y-24H	Pond 1.2	21.0030	26.17
SJRWMD 25Y-24H	Pond 1.2	21.2507	26.16
SJRWMD 25Y-24H	Pond 1.2	21.5027	26.15
SJRWMD 25Y-24H	Pond 1.2	21.7525	26.15
SJRWMD 25Y-24H	Pond 1.2	22.0035	26.14
SJRWMD 25Y-24H	Pond 1.2	22.2526	26.14
SJRWMD 25Y-24H	Pond 1.2	22.5036	26.13
SJRWMD 25Y-24H	Pond 1.2	22.7516	26.12
SJRWMD 25Y-24H	Pond 1.2	23.0009	26.12
SJRWMD 25Y-24H	Pond 1.2	23.2534	26.11
SJRWMD 25Y-24H	Pond 1.2	23.5002	26.10
SJRWMD 25Y-24H	Pond 1.2	23.7546	26.10
SJRWMD 25Y-24H	Pond 1.2	24.0003	26.09
SJRWMD 25Y-24H	Pond 1.2	24.2503	26.08
SJRWMD 25Y-24H	Pond 1.2	24.5023	26.06
SJRWMD 25Y-24H	Pond 1.2	24.7528	26.05
SJRWMD 25Y-24H	Pond 1.2	25.0005	26.03
SJRWMD 25Y-24H	Pond 1.2	25.2542	26.02
SJRWMD 25Y-24H	Pond 1.2	25.5003	26.00
SJRWMD 25Y-24H	Pond 1.2	25.7549	25.99
SJRWMD 25Y-24H	Pond 1.2	26.0011	25.98
SJRWMD 25Y-24H	Pond 1.2	26.2544	25.96
SJRWMD 25Y-24H	Pond 1.2	26.5021	25.95
SJRWMD 25Y-24H	Pond 1.2	26.7536	25.94
SJRWMD 25Y-24H	Pond 1.2	27.0001	25.93
SJRWMD 25Y-24H	Pond 1.2	27.2501	25.91
SJRWMD 25Y-24H	Pond 1.2	27.5033	25.90
SJRWMD 25Y-24H	Pond 1.2	27.7517	25.89
SJRWMD 25Y-24H	Pond 1.2	28.0023	25.88
SJRWMD 25Y-24H	Pond 1.2	28.2515	25.87
SJRWMD 25Y-24H	Pond 1.2	28.5015	25.86
SJRWMD 25Y-24H	Pond 1.2	28.7502	25.85
SJRWMD 25Y-24H	Pond 1.2	29.0013	25.83
SJRWMD 25Y-24H	Pond 1.2	29.2502	25.82

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.2	29.5003	25.81
SJRWMD 25Y-24H	Pond 1.2	29.7501	25.80
SJRWMD 25Y-24H	Pond 1.2	30.0016	25.79
SJRWMD 25Y-24H	Pond 1.2	30.2503	25.78
SJRWMD 25Y-24H	Pond 1.2	30.5008	25.77
SJRWMD 25Y-24H	Pond 1.2	30.7540	25.76
SJRWMD 25Y-24H	Pond 1.2	31.0006	25.75
SJRWMD 25Y-24H	Pond 1.2	31.2512	25.74
SJRWMD 25Y-24H	Pond 1.2	31.5037	25.74
SJRWMD 25Y-24H	Pond 1.2	31.7503	25.73
SJRWMD 25Y-24H	Pond 1.2	32.0024	25.72
SJRWMD 25Y-24H	Pond 1.2	32.2512	25.71
SJRWMD 25Y-24H	Pond 1.2	32.5015	25.70
SJRWMD 25Y-24H	Pond 1.2	32.7550	25.69
SJRWMD 25Y-24H	Pond 1.2	33.0005	25.68
SJRWMD 25Y-24H	Pond 1.2	33.2502	25.67
SJRWMD 25Y-24H	Pond 1.2	33.5007	25.67
SJRWMD 25Y-24H	Pond 1.2	33.7501	25.66
SJRWMD 25Y-24H	Pond 1.2	34.0007	25.65
SJRWMD 25Y-24H	Pond 1.2	34.2523	25.64
SJRWMD 25Y-24H	Pond 1.2	34.5008	25.63
SJRWMD 25Y-24H	Pond 1.2	34.7500	25.63
SJRWMD 25Y-24H	Pond 1.2	35.0010	25.62
SJRWMD 25Y-24H	Pond 1.2	35.2501	25.61
SJRWMD 25Y-24H	Pond 1.2	35.5043	25.60
SJRWMD 25Y-24H	Pond 1.2	35.7519	25.60
SJRWMD 25Y-24H	Pond 1.2	36.0053	25.59
SJRWMD 25Y-24H	Pond 1.2	36.2513	25.58
SJRWMD 25Y-24H	Pond 1.2	36.5013	25.58
SJRWMD 25Y-24H	Pond 1.2	36.7509	25.57
SJRWMD 25Y-24H	Pond 1.2	37.0005	25.56
SJRWMD 25Y-24H	Pond 1.2	37.2528	25.56
SJRWMD 25Y-24H	Pond 1.2	37.5010	25.55
SJRWMD 25Y-24H	Pond 1.2	37.7512	25.54
SJRWMD 25Y-24H	Pond 1.2	38.0001	25.54
SJRWMD 25Y-24H	Pond 1.2	38.2506	25.53
SJRWMD 25Y-24H	Pond 1.2	38.5012	25.52
SJRWMD 25Y-24H	Pond 1.2	38.7517	25.52
SJRWMD 25Y-24H	Pond 1.2	39.0031	25.51
SJRWMD 25Y-24H	Pond 1.2	39.2520	25.51
SJRWMD 25Y-24H	Pond 1.2	39.5009	25.50
SJRWMD 25Y-24H	Pond 1.2	39.7545	25.49

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.2	40.0028	25.49
SJRWMD 25Y-24H	Pond 1.2	40.2531	25.48
SJRWMD 25Y-24H	Pond 1.2	40.5036	25.48
SJRWMD 25Y-24H	Pond 1.2	40.7509	25.47
SJRWMD 25Y-24H	Pond 1.2	41.0015	25.47
SJRWMD 25Y-24H	Pond 1.2	41.2504	25.46
SJRWMD 25Y-24H	Pond 1.2	41.5031	25.46
SJRWMD 25Y-24H	Pond 1.2	41.7531	25.45
SJRWMD 25Y-24H	Pond 1.2	42.0011	25.45
SJRWMD 25Y-24H	Pond 1.2	42.2526	25.44
SJRWMD 25Y-24H	Pond 1.2	42.5052	25.44
SJRWMD 25Y-24H	Pond 1.2	42.7580	25.43
SJRWMD 25Y-24H	Pond 1.2	43.0080	25.43
SJRWMD 25Y-24H	Pond 1.2	43.2580	25.42
SJRWMD 25Y-24H	Pond 1.2	43.5080	25.42
SJRWMD 25Y-24H	Pond 1.2	43.7580	25.41
SJRWMD 25Y-24H	Pond 1.2	44.0080	25.41
SJRWMD 25Y-24H	Pond 1.2	44.2580	25.40
SJRWMD 25Y-24H	Pond 1.2	44.5080	25.40
SJRWMD 25Y-24H	Pond 1.2	44.7580	25.39
SJRWMD 25Y-24H	Pond 1.2	45.0080	25.39
SJRWMD 25Y-24H	Pond 1.2	45.2580	25.38
SJRWMD 25Y-24H	Pond 1.2	45.5080	25.38
SJRWMD 25Y-24H	Pond 1.2	45.7580	25.38
SJRWMD 25Y-24H	Pond 1.2	46.0038	25.37
SJRWMD 25Y-24H	Pond 1.2	46.2580	25.37
SJRWMD 25Y-24H	Pond 1.2	46.5012	25.36
SJRWMD 25Y-24H	Pond 1.2	46.7504	25.36
SJRWMD 25Y-24H	Pond 1.2	47.0011	25.36
SJRWMD 25Y-24H	Pond 1.2	47.2544	25.35
SJRWMD 25Y-24H	Pond 1.2	47.5042	25.35
SJRWMD 25Y-24H	Pond 1.2	47.7504	25.34
SJRWMD 25Y-24H	Pond 1.2	48.0009	25.34
SJRWMD 25Y-24H	Pond 1.3	0.0000	24.29
SJRWMD 25Y-24H	Pond 1.3	0.2512	24.29
SJRWMD 25Y-24H	Pond 1.3	0.5002	24.29
SJRWMD 25Y-24H	Pond 1.3	0.7507	24.29
SJRWMD 25Y-24H	Pond 1.3	1.0008	24.29
SJRWMD 25Y-24H	Pond 1.3	1.2517	24.29
SJRWMD 25Y-24H	Pond 1.3	1.5006	24.29
SJRWMD 25Y-24H	Pond 1.3	1.7510	24.29
SJRWMD 25Y-24H	Pond 1.3	2.0004	24.29

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.3	2.2520	24.29
SJRWMD 25Y-24H	Pond 1.3	2.5029	24.29
SJRWMD 25Y-24H	Pond 1.3	2.7502	24.29
SJRWMD 25Y-24H	Pond 1.3	3.0011	24.30
SJRWMD 25Y-24H	Pond 1.3	3.2502	24.30
SJRWMD 25Y-24H	Pond 1.3	3.5010	24.30
SJRWMD 25Y-24H	Pond 1.3	3.7504	24.31
SJRWMD 25Y-24H	Pond 1.3	4.0013	24.32
SJRWMD 25Y-24H	Pond 1.3	4.2535	24.32
SJRWMD 25Y-24H	Pond 1.3	4.5015	24.33
SJRWMD 25Y-24H	Pond 1.3	4.7505	24.34
SJRWMD 25Y-24H	Pond 1.3	5.0021	24.35
SJRWMD 25Y-24H	Pond 1.3	5.2528	24.36
SJRWMD 25Y-24H	Pond 1.3	5.5008	24.37
SJRWMD 25Y-24H	Pond 1.3	5.7520	24.38
SJRWMD 25Y-24H	Pond 1.3	6.0040	24.39
SJRWMD 25Y-24H	Pond 1.3	6.2506	24.40
SJRWMD 25Y-24H	Pond 1.3	6.5021	24.41
SJRWMD 25Y-24H	Pond 1.3	6.7522	24.42
SJRWMD 25Y-24H	Pond 1.3	7.0029	24.44
SJRWMD 25Y-24H	Pond 1.3	7.2518	24.45
SJRWMD 25Y-24H	Pond 1.3	7.5020	24.47
SJRWMD 25Y-24H	Pond 1.3	7.7533	24.49
SJRWMD 25Y-24H	Pond 1.3	8.0008	24.50
SJRWMD 25Y-24H	Pond 1.3	8.2509	24.52
SJRWMD 25Y-24H	Pond 1.3	8.5025	24.54
SJRWMD 25Y-24H	Pond 1.3	8.7500	24.56
SJRWMD 25Y-24H	Pond 1.3	9.0046	24.59
SJRWMD 25Y-24H	Pond 1.3	9.2526	24.61
SJRWMD 25Y-24H	Pond 1.3	9.5034	24.64
SJRWMD 25Y-24H	Pond 1.3	9.7518	24.67
SJRWMD 25Y-24H	Pond 1.3	10.0002	24.70
SJRWMD 25Y-24H	Pond 1.3	10.2509	24.74
SJRWMD 25Y-24H	Pond 1.3	10.5024	24.78
SJRWMD 25Y-24H	Pond 1.3	10.7507	24.82
SJRWMD 25Y-24H	Pond 1.3	11.0003	24.88
SJRWMD 25Y-24H	Pond 1.3	11.2517	24.93
SJRWMD 25Y-24H	Pond 1.3	11.5008	25.01
SJRWMD 25Y-24H	Pond 1.3	11.7504	25.16
SJRWMD 25Y-24H	Pond 1.3	12.0001	25.47
SJRWMD 25Y-24H	Pond 1.3	12.2503	25.88
SJRWMD 25Y-24H	Pond 1.3	12.5003	26.22



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.3	12.7513	26.40
SJRWMD 25Y-24H	Pond 1.3	13.0007	26.45
SJRWMD 25Y-24H	Pond 1.3	13.2514	26.44
SJRWMD 25Y-24H	Pond 1.3	13.5009	26.40
SJRWMD 25Y-24H	Pond 1.3	13.7519	26.36
SJRWMD 25Y-24H	Pond 1.3	14.0031	26.33
SJRWMD 25Y-24H	Pond 1.3	14.2505	26.29
SJRWMD 25Y-24H	Pond 1.3	14.5007	26.27
SJRWMD 25Y-24H	Pond 1.3	14.7510	26.26
SJRWMD 25Y-24H	Pond 1.3	15.0012	26.25
SJRWMD 25Y-24H	Pond 1.3	15.2510	26.24
SJRWMD 25Y-24H	Pond 1.3	15.5006	26.24
SJRWMD 25Y-24H	Pond 1.3	15.7551	26.24
SJRWMD 25Y-24H	Pond 1.3	16.0017	26.24
SJRWMD 25Y-24H	Pond 1.3	16.2530	26.24
SJRWMD 25Y-24H	Pond 1.3	16.5001	26.24
SJRWMD 25Y-24H	Pond 1.3	16.7543	26.23
SJRWMD 25Y-24H	Pond 1.3	17.0010	26.23
SJRWMD 25Y-24H	Pond 1.3	17.2535	26.23
SJRWMD 25Y-24H	Pond 1.3	17.5012	26.23
SJRWMD 25Y-24H	Pond 1.3	17.7516	26.22
SJRWMD 25Y-24H	Pond 1.3	18.0034	26.22
SJRWMD 25Y-24H	Pond 1.3	18.2528	26.21
SJRWMD 25Y-24H	Pond 1.3	18.5015	26.21
SJRWMD 25Y-24H	Pond 1.3	18.7512	26.20
SJRWMD 25Y-24H	Pond 1.3	19.0039	26.20
SJRWMD 25Y-24H	Pond 1.3	19.2505	26.19
SJRWMD 25Y-24H	Pond 1.3	19.5009	26.19
SJRWMD 25Y-24H	Pond 1.3	19.7532	26.18
SJRWMD 25Y-24H	Pond 1.3	20.0021	26.18
SJRWMD 25Y-24H	Pond 1.3	20.2550	26.17
SJRWMD 25Y-24H	Pond 1.3	20.5016	26.17
SJRWMD 25Y-24H	Pond 1.3	20.7509	26.16
SJRWMD 25Y-24H	Pond 1.3	21.0030	26.15
SJRWMD 25Y-24H	Pond 1.3	21.2507	26.15
SJRWMD 25Y-24H	Pond 1.3	21.5027	26.14
SJRWMD 25Y-24H	Pond 1.3	21.7525	26.13
SJRWMD 25Y-24H	Pond 1.3	22.0035	26.13
SJRWMD 25Y-24H	Pond 1.3	22.2526	26.12
SJRWMD 25Y-24H	Pond 1.3	22.5036	26.12
SJRWMD 25Y-24H	Pond 1.3	22.7516	26.11
SJRWMD 25Y-24H	Pond 1.3	23.0009	26.10

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.3	23.2534	26.10
SJRWMD 25Y-24H	Pond 1.3	23.5002	26.09
SJRWMD 25Y-24H	Pond 1.3	23.7546	26.08
SJRWMD 25Y-24H	Pond 1.3	24.0003	26.08
SJRWMD 25Y-24H	Pond 1.3	24.2503	26.07
SJRWMD 25Y-24H	Pond 1.3	24.5023	26.05
SJRWMD 25Y-24H	Pond 1.3	24.7528	26.04
SJRWMD 25Y-24H	Pond 1.3	25.0005	26.02
SJRWMD 25Y-24H	Pond 1.3	25.2542	26.01
SJRWMD 25Y-24H	Pond 1.3	25.5003	25.99
SJRWMD 25Y-24H	Pond 1.3	25.7549	25.98
SJRWMD 25Y-24H	Pond 1.3	26.0011	25.97
SJRWMD 25Y-24H	Pond 1.3	26.2544	25.96
SJRWMD 25Y-24H	Pond 1.3	26.5021	25.94
SJRWMD 25Y-24H	Pond 1.3	26.7536	25.93
SJRWMD 25Y-24H	Pond 1.3	27.0001	25.92
SJRWMD 25Y-24H	Pond 1.3	27.2501	25.91
SJRWMD 25Y-24H	Pond 1.3	27.5033	25.90
SJRWMD 25Y-24H	Pond 1.3	27.7517	25.88
SJRWMD 25Y-24H	Pond 1.3	28.0023	25.87
SJRWMD 25Y-24H	Pond 1.3	28.2515	25.86
SJRWMD 25Y-24H	Pond 1.3	28.5015	25.85
SJRWMD 25Y-24H	Pond 1.3	28.7502	25.84
SJRWMD 25Y-24H	Pond 1.3	29.0013	25.83
SJRWMD 25Y-24H	Pond 1.3	29.2502	25.82
SJRWMD 25Y-24H	Pond 1.3	29.5003	25.81
SJRWMD 25Y-24H	Pond 1.3	29.7501	25.80
SJRWMD 25Y-24H	Pond 1.3	30.0016	25.79
SJRWMD 25Y-24H	Pond 1.3	30.2503	25.78
SJRWMD 25Y-24H	Pond 1.3	30.5008	25.77
SJRWMD 25Y-24H	Pond 1.3	30.7540	25.76
SJRWMD 25Y-24H	Pond 1.3	31.0006	25.75
SJRWMD 25Y-24H	Pond 1.3	31.2512	25.74
SJRWMD 25Y-24H	Pond 1.3	31.5037	25.73
SJRWMD 25Y-24H	Pond 1.3	31.7503	25.72
SJRWMD 25Y-24H	Pond 1.3	32.0024	25.71
SJRWMD 25Y-24H	Pond 1.3	32.2512	25.70
SJRWMD 25Y-24H	Pond 1.3	32.5015	25.70
SJRWMD 25Y-24H	Pond 1.3	32.7550	25.69
SJRWMD 25Y-24H	Pond 1.3	33.0005	25.68
SJRWMD 25Y-24H	Pond 1.3	33.2502	25.67
SJRWMD 25Y-24H	Pond 1.3	33.5007	25.66

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.3	33.7501	25.65
SJRWMD 25Y-24H	Pond 1.3	34.0007	25.65
SJRWMD 25Y-24H	Pond 1.3	34.2523	25.64
SJRWMD 25Y-24H	Pond 1.3	34.5008	25.63
SJRWMD 25Y-24H	Pond 1.3	34.7500	25.62
SJRWMD 25Y-24H	Pond 1.3	35.0010	25.62
SJRWMD 25Y-24H	Pond 1.3	35.2501	25.61
SJRWMD 25Y-24H	Pond 1.3	35.5043	25.60
SJRWMD 25Y-24H	Pond 1.3	35.7519	25.59
SJRWMD 25Y-24H	Pond 1.3	36.0053	25.59
SJRWMD 25Y-24H	Pond 1.3	36.2513	25.58
SJRWMD 25Y-24H	Pond 1.3	36.5013	25.57
SJRWMD 25Y-24H	Pond 1.3	36.7509	25.57
SJRWMD 25Y-24H	Pond 1.3	37.0005	25.56
SJRWMD 25Y-24H	Pond 1.3	37.2528	25.55
SJRWMD 25Y-24H	Pond 1.3	37.5010	25.55
SJRWMD 25Y-24H	Pond 1.3	37.7512	25.54
SJRWMD 25Y-24H	Pond 1.3	38.0001	25.53
SJRWMD 25Y-24H	Pond 1.3	38.2506	25.53
SJRWMD 25Y-24H	Pond 1.3	38.5012	25.52
SJRWMD 25Y-24H	Pond 1.3	38.7517	25.52
SJRWMD 25Y-24H	Pond 1.3	39.0031	25.51
SJRWMD 25Y-24H	Pond 1.3	39.2520	25.50
SJRWMD 25Y-24H	Pond 1.3	39.5009	25.50
SJRWMD 25Y-24H	Pond 1.3	39.7545	25.49
SJRWMD 25Y-24H	Pond 1.3	40.0028	25.49
SJRWMD 25Y-24H	Pond 1.3	40.2531	25.48
SJRWMD 25Y-24H	Pond 1.3	40.5036	25.47
SJRWMD 25Y-24H	Pond 1.3	40.7509	25.47
SJRWMD 25Y-24H	Pond 1.3	41.0015	25.46
SJRWMD 25Y-24H	Pond 1.3	41.2504	25.46
SJRWMD 25Y-24H	Pond 1.3	41.5031	25.45
SJRWMD 25Y-24H	Pond 1.3	41.7531	25.45
SJRWMD 25Y-24H	Pond 1.3	42.0011	25.44
SJRWMD 25Y-24H	Pond 1.3	42.2526	25.44
SJRWMD 25Y-24H	Pond 1.3	42.5052	25.43
SJRWMD 25Y-24H	Pond 1.3	42.7580	25.43
SJRWMD 25Y-24H	Pond 1.3	43.0080	25.42
SJRWMD 25Y-24H	Pond 1.3	43.2580	25.42
SJRWMD 25Y-24H	Pond 1.3	43.5080	25.41
SJRWMD 25Y-24H	Pond 1.3	43.7580	25.41
SJRWMD 25Y-24H	Pond 1.3	44.0080	25.40

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.3	44.2580	25.40
SJRWMD 25Y-24H	Pond 1.3	44.5080	25.39
SJRWMD 25Y-24H	Pond 1.3	44.7580	25.39
SJRWMD 25Y-24H	Pond 1.3	45.0080	25.39
SJRWMD 25Y-24H	Pond 1.3	45.2580	25.38
SJRWMD 25Y-24H	Pond 1.3	45.5080	25.38
SJRWMD 25Y-24H	Pond 1.3	45.7580	25.37
SJRWMD 25Y-24H	Pond 1.3	46.0038	25.37
SJRWMD 25Y-24H	Pond 1.3	46.2580	25.36
SJRWMD 25Y-24H	Pond 1.3	46.5012	25.36
SJRWMD 25Y-24H	Pond 1.3	46.7504	25.36
SJRWMD 25Y-24H	Pond 1.3	47.0011	25.35
SJRWMD 25Y-24H	Pond 1.3	47.2544	25.35
SJRWMD 25Y-24H	Pond 1.3	47.5042	25.34
SJRWMD 25Y-24H	Pond 1.3	47.7504	25.34
SJRWMD 25Y-24H	Pond 1.3	48.0009	25.34
SJRWMD 25Y-24H	Pond 1.4	0.0000	24.29
SJRWMD 25Y-24H	Pond 1.4	0.2512	24.29
SJRWMD 25Y-24H	Pond 1.4	0.5002	24.29
SJRWMD 25Y-24H	Pond 1.4	0.7507	24.29
SJRWMD 25Y-24H	Pond 1.4	1.0008	24.29
SJRWMD 25Y-24H	Pond 1.4	1.2517	24.29
SJRWMD 25Y-24H	Pond 1.4	1.5006	24.29
SJRWMD 25Y-24H	Pond 1.4	1.7510	24.29
SJRWMD 25Y-24H	Pond 1.4	2.0004	24.29
SJRWMD 25Y-24H	Pond 1.4	2.2520	24.29
SJRWMD 25Y-24H	Pond 1.4	2.5029	24.30
SJRWMD 25Y-24H	Pond 1.4	2.7502	24.30
SJRWMD 25Y-24H	Pond 1.4	3.0011	24.30
SJRWMD 25Y-24H	Pond 1.4	3.2502	24.30
SJRWMD 25Y-24H	Pond 1.4	3.5010	24.31
SJRWMD 25Y-24H	Pond 1.4	3.7504	24.31
SJRWMD 25Y-24H	Pond 1.4	4.0013	24.32
SJRWMD 25Y-24H	Pond 1.4	4.2535	24.32
SJRWMD 25Y-24H	Pond 1.4	4.5015	24.33
SJRWMD 25Y-24H	Pond 1.4	4.7505	24.34
SJRWMD 25Y-24H	Pond 1.4	5.0021	24.34
SJRWMD 25Y-24H	Pond 1.4	5.2528	24.35
SJRWMD 25Y-24H	Pond 1.4	5.5008	24.36
SJRWMD 25Y-24H	Pond 1.4	5.7520	24.37
SJRWMD 25Y-24H	Pond 1.4	6.0040	24.37
SJRWMD 25Y-24H	Pond 1.4	6.2506	24.38

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.4	6.5021	24.39
SJRWMD 25Y-24H	Pond 1.4	6.7522	24.40
SJRWMD 25Y-24H	Pond 1.4	7.0029	24.42
SJRWMD 25Y-24H	Pond 1.4	7.2518	24.43
SJRWMD 25Y-24H	Pond 1.4	7.5020	24.44
SJRWMD 25Y-24H	Pond 1.4	7.7533	24.45
SJRWMD 25Y-24H	Pond 1.4	8.0008	24.47
SJRWMD 25Y-24H	Pond 1.4	8.2509	24.48
SJRWMD 25Y-24H	Pond 1.4	8.5025	24.50
SJRWMD 25Y-24H	Pond 1.4	8.7500	24.51
SJRWMD 25Y-24H	Pond 1.4	9.0046	24.53
SJRWMD 25Y-24H	Pond 1.4	9.2526	24.55
SJRWMD 25Y-24H	Pond 1.4	9.5034	24.57
SJRWMD 25Y-24H	Pond 1.4	9.7518	24.60
SJRWMD 25Y-24H	Pond 1.4	10.0002	24.62
SJRWMD 25Y-24H	Pond 1.4	10.2509	24.65
SJRWMD 25Y-24H	Pond 1.4	10.5024	24.68
SJRWMD 25Y-24H	Pond 1.4	10.7507	24.71
SJRWMD 25Y-24H	Pond 1.4	11.0003	24.75
SJRWMD 25Y-24H	Pond 1.4	11.2517	24.80
SJRWMD 25Y-24H	Pond 1.4	11.5008	24.86
SJRWMD 25Y-24H	Pond 1.4	11.7504	25.08
SJRWMD 25Y-24H	Pond 1.4	12.0001	25.61
SJRWMD 25Y-24H	Pond 1.4	12.2503	26.16
SJRWMD 25Y-24H	Pond 1.4	12.5003	26.40
SJRWMD 25Y-24H	Pond 1.4	12.7513	26.44
SJRWMD 25Y-24H	Pond 1.4	13.0007	26.40
SJRWMD 25Y-24H	Pond 1.4	13.2514	26.35
SJRWMD 25Y-24H	Pond 1.4	13.5009	26.32
SJRWMD 25Y-24H	Pond 1.4	13.7519	26.30
SJRWMD 25Y-24H	Pond 1.4	14.0031	26.29
SJRWMD 25Y-24H	Pond 1.4	14.2505	26.28
SJRWMD 25Y-24H	Pond 1.4	14.5007	26.28
SJRWMD 25Y-24H	Pond 1.4	14.7510	26.28
SJRWMD 25Y-24H	Pond 1.4	15.0012	26.29
SJRWMD 25Y-24H	Pond 1.4	15.2510	26.29
SJRWMD 25Y-24H	Pond 1.4	15.5006	26.30
SJRWMD 25Y-24H	Pond 1.4	15.7551	26.30
SJRWMD 25Y-24H	Pond 1.4	16.0017	26.30
SJRWMD 25Y-24H	Pond 1.4	16.2530	26.30
SJRWMD 25Y-24H	Pond 1.4	16.5001	26.30
SJRWMD 25Y-24H	Pond 1.4	16.7543	26.30

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.4	17.0010	26.30
SJRWMD 25Y-24H	Pond 1.4	17.2535	26.30
SJRWMD 25Y-24H	Pond 1.4	17.5012	26.29
SJRWMD 25Y-24H	Pond 1.4	17.7516	26.29
SJRWMD 25Y-24H	Pond 1.4	18.0034	26.29
SJRWMD 25Y-24H	Pond 1.4	18.2528	26.28
SJRWMD 25Y-24H	Pond 1.4	18.5015	26.28
SJRWMD 25Y-24H	Pond 1.4	18.7512	26.27
SJRWMD 25Y-24H	Pond 1.4	19.0039	26.27
SJRWMD 25Y-24H	Pond 1.4	19.2505	26.26
SJRWMD 25Y-24H	Pond 1.4	19.5009	26.26
SJRWMD 25Y-24H	Pond 1.4	19.7532	26.25
SJRWMD 25Y-24H	Pond 1.4	20.0021	26.24
SJRWMD 25Y-24H	Pond 1.4	20.2550	26.24
SJRWMD 25Y-24H	Pond 1.4	20.5016	26.23
SJRWMD 25Y-24H	Pond 1.4	20.7509	26.22
SJRWMD 25Y-24H	Pond 1.4	21.0030	26.22
SJRWMD 25Y-24H	Pond 1.4	21.2507	26.21
SJRWMD 25Y-24H	Pond 1.4	21.5027	26.20
SJRWMD 25Y-24H	Pond 1.4	21.7525	26.20
SJRWMD 25Y-24H	Pond 1.4	22.0035	26.19
SJRWMD 25Y-24H	Pond 1.4	22.2526	26.18
SJRWMD 25Y-24H	Pond 1.4	22.5036	26.18
SJRWMD 25Y-24H	Pond 1.4	22.7516	26.17
SJRWMD 25Y-24H	Pond 1.4	23.0009	26.16
SJRWMD 25Y-24H	Pond 1.4	23.2534	26.16
SJRWMD 25Y-24H	Pond 1.4	23.5002	26.15
SJRWMD 25Y-24H	Pond 1.4	23.7546	26.14
SJRWMD 25Y-24H	Pond 1.4	24.0003	26.13
SJRWMD 25Y-24H	Pond 1.4	24.2503	26.12
SJRWMD 25Y-24H	Pond 1.4	24.5023	26.11
SJRWMD 25Y-24H	Pond 1.4	24.7528	26.09
SJRWMD 25Y-24H	Pond 1.4	25.0005	26.08
SJRWMD 25Y-24H	Pond 1.4	25.2542	26.07
SJRWMD 25Y-24H	Pond 1.4	25.5003	26.05
SJRWMD 25Y-24H	Pond 1.4	25.7549	26.04
SJRWMD 25Y-24H	Pond 1.4	26.0011	26.02
SJRWMD 25Y-24H	Pond 1.4	26.2544	26.01
SJRWMD 25Y-24H	Pond 1.4	26.5021	26.00
SJRWMD 25Y-24H	Pond 1.4	26.7536	25.98
SJRWMD 25Y-24H	Pond 1.4	27.0001	25.97
SJRWMD 25Y-24H	Pond 1.4	27.2501	25.96

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.4	27.5033	25.94
SJRWMD 25Y-24H	Pond 1.4	27.7517	25.93
SJRWMD 25Y-24H	Pond 1.4	28.0023	25.92
SJRWMD 25Y-24H	Pond 1.4	28.2515	25.91
SJRWMD 25Y-24H	Pond 1.4	28.5015	25.90
SJRWMD 25Y-24H	Pond 1.4	28.7502	25.88
SJRWMD 25Y-24H	Pond 1.4	29.0013	25.87
SJRWMD 25Y-24H	Pond 1.4	29.2502	25.86
SJRWMD 25Y-24H	Pond 1.4	29.5003	25.85
SJRWMD 25Y-24H	Pond 1.4	29.7501	25.84
SJRWMD 25Y-24H	Pond 1.4	30.0016	25.83
SJRWMD 25Y-24H	Pond 1.4	30.2503	25.82
SJRWMD 25Y-24H	Pond 1.4	30.5008	25.81
SJRWMD 25Y-24H	Pond 1.4	30.7540	25.80
SJRWMD 25Y-24H	Pond 1.4	31.0006	25.79
SJRWMD 25Y-24H	Pond 1.4	31.2512	25.78
SJRWMD 25Y-24H	Pond 1.4	31.5037	25.77
SJRWMD 25Y-24H	Pond 1.4	31.7503	25.76
SJRWMD 25Y-24H	Pond 1.4	32.0024	25.75
SJRWMD 25Y-24H	Pond 1.4	32.2512	25.74
SJRWMD 25Y-24H	Pond 1.4	32.5015	25.73
SJRWMD 25Y-24H	Pond 1.4	32.7550	25.72
SJRWMD 25Y-24H	Pond 1.4	33.0005	25.71
SJRWMD 25Y-24H	Pond 1.4	33.2502	25.70
SJRWMD 25Y-24H	Pond 1.4	33.5007	25.69
SJRWMD 25Y-24H	Pond 1.4	33.7501	25.69
SJRWMD 25Y-24H	Pond 1.4	34.0007	25.68
SJRWMD 25Y-24H	Pond 1.4	34.2523	25.67
SJRWMD 25Y-24H	Pond 1.4	34.5008	25.66
SJRWMD 25Y-24H	Pond 1.4	34.7500	25.65
SJRWMD 25Y-24H	Pond 1.4	35.0010	25.65
SJRWMD 25Y-24H	Pond 1.4	35.2501	25.64
SJRWMD 25Y-24H	Pond 1.4	35.5043	25.63
SJRWMD 25Y-24H	Pond 1.4	35.7519	25.62
SJRWMD 25Y-24H	Pond 1.4	36.0053	25.61
SJRWMD 25Y-24H	Pond 1.4	36.2513	25.61
SJRWMD 25Y-24H	Pond 1.4	36.5013	25.60
SJRWMD 25Y-24H	Pond 1.4	36.7509	25.59
SJRWMD 25Y-24H	Pond 1.4	37.0005	25.59
SJRWMD 25Y-24H	Pond 1.4	37.2528	25.58
SJRWMD 25Y-24H	Pond 1.4	37.5010	25.57
SJRWMD 25Y-24H	Pond 1.4	37.7512	25.57

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.4	38.0001	25.56
SJRWMD 25Y-24H	Pond 1.4	38.2506	25.55
SJRWMD 25Y-24H	Pond 1.4	38.5012	25.55
SJRWMD 25Y-24H	Pond 1.4	38.7517	25.54
SJRWMD 25Y-24H	Pond 1.4	39.0031	25.53
SJRWMD 25Y-24H	Pond 1.4	39.2520	25.53
SJRWMD 25Y-24H	Pond 1.4	39.5009	25.52
SJRWMD 25Y-24H	Pond 1.4	39.7545	25.52
SJRWMD 25Y-24H	Pond 1.4	40.0028	25.51
SJRWMD 25Y-24H	Pond 1.4	40.2531	25.50
SJRWMD 25Y-24H	Pond 1.4	40.5036	25.50
SJRWMD 25Y-24H	Pond 1.4	40.7509	25.49
SJRWMD 25Y-24H	Pond 1.4	41.0015	25.49
SJRWMD 25Y-24H	Pond 1.4	41.2504	25.48
SJRWMD 25Y-24H	Pond 1.4	41.5031	25.48
SJRWMD 25Y-24H	Pond 1.4	41.7531	25.47
SJRWMD 25Y-24H	Pond 1.4	42.0011	25.47
SJRWMD 25Y-24H	Pond 1.4	42.2526	25.46
SJRWMD 25Y-24H	Pond 1.4	42.5052	25.46
SJRWMD 25Y-24H	Pond 1.4	42.7580	25.45
SJRWMD 25Y-24H	Pond 1.4	43.0080	25.44
SJRWMD 25Y-24H	Pond 1.4	43.2580	25.44
SJRWMD 25Y-24H	Pond 1.4	43.5080	25.44
SJRWMD 25Y-24H	Pond 1.4	43.7580	25.43
SJRWMD 25Y-24H	Pond 1.4	44.0080	25.43
SJRWMD 25Y-24H	Pond 1.4	44.2580	25.42
SJRWMD 25Y-24H	Pond 1.4	44.5080	25.42
SJRWMD 25Y-24H	Pond 1.4	44.7580	25.41
SJRWMD 25Y-24H	Pond 1.4	45.0080	25.41
SJRWMD 25Y-24H	Pond 1.4	45.2580	25.40
SJRWMD 25Y-24H	Pond 1.4	45.5080	25.40
SJRWMD 25Y-24H	Pond 1.4	45.7580	25.39
SJRWMD 25Y-24H	Pond 1.4	46.0038	25.39
SJRWMD 25Y-24H	Pond 1.4	46.2580	25.39
SJRWMD 25Y-24H	Pond 1.4	46.5012	25.38
SJRWMD 25Y-24H	Pond 1.4	46.7504	25.38
SJRWMD 25Y-24H	Pond 1.4	47.0011	25.37
SJRWMD 25Y-24H	Pond 1.4	47.2544	25.37
SJRWMD 25Y-24H	Pond 1.4	47.5042	25.36
SJRWMD 25Y-24H	Pond 1.4	47.7504	25.36
SJRWMD 25Y-24H	Pond 1.4	48.0009	25.36
SJRWMD 25Y-24H	Pond 1.5	0.0000	24.29



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.5	0.2512	24.21
SJRWMD 25Y-24H	Pond 1.5	0.5002	24.17
SJRWMD 25Y-24H	Pond 1.5	0.7507	24.14
SJRWMD 25Y-24H	Pond 1.5	1.0008	24.11
SJRWMD 25Y-24H	Pond 1.5	1.2517	24.09
SJRWMD 25Y-24H	Pond 1.5	1.5006	24.08
SJRWMD 25Y-24H	Pond 1.5	1.7510	24.06
SJRWMD 25Y-24H	Pond 1.5	2.0004	24.06
SJRWMD 25Y-24H	Pond 1.5	2.2520	24.06
SJRWMD 25Y-24H	Pond 1.5	2.5029	24.06
SJRWMD 25Y-24H	Pond 1.5	2.7502	24.06
SJRWMD 25Y-24H	Pond 1.5	3.0011	24.06
SJRWMD 25Y-24H	Pond 1.5	3.2502	24.07
SJRWMD 25Y-24H	Pond 1.5	3.5010	24.07
SJRWMD 25Y-24H	Pond 1.5	3.7504	24.08
SJRWMD 25Y-24H	Pond 1.5	4.0013	24.08
SJRWMD 25Y-24H	Pond 1.5	4.2535	24.09
SJRWMD 25Y-24H	Pond 1.5	4.5015	24.09
SJRWMD 25Y-24H	Pond 1.5	4.7505	24.10
SJRWMD 25Y-24H	Pond 1.5	5.0021	24.11
SJRWMD 25Y-24H	Pond 1.5	5.2528	24.12
SJRWMD 25Y-24H	Pond 1.5	5.5008	24.12
SJRWMD 25Y-24H	Pond 1.5	5.7520	24.13
SJRWMD 25Y-24H	Pond 1.5	6.0040	24.14
SJRWMD 25Y-24H	Pond 1.5	6.2506	24.15
SJRWMD 25Y-24H	Pond 1.5	6.5021	24.17
SJRWMD 25Y-24H	Pond 1.5	6.7522	24.18
SJRWMD 25Y-24H	Pond 1.5	7.0029	24.19
SJRWMD 25Y-24H	Pond 1.5	7.2518	24.20
SJRWMD 25Y-24H	Pond 1.5	7.5020	24.22
SJRWMD 25Y-24H	Pond 1.5	7.7533	24.23
SJRWMD 25Y-24H	Pond 1.5	8.0008	24.25
SJRWMD 25Y-24H	Pond 1.5	8.2509	24.27
SJRWMD 25Y-24H	Pond 1.5	8.5025	24.28
SJRWMD 25Y-24H	Pond 1.5	8.7500	24.30
SJRWMD 25Y-24H	Pond 1.5	9.0046	24.33
SJRWMD 25Y-24H	Pond 1.5	9.2526	24.35
SJRWMD 25Y-24H	Pond 1.5	9.5034	24.37
SJRWMD 25Y-24H	Pond 1.5	9.7518	24.40
SJRWMD 25Y-24H	Pond 1.5	10.0002	24.43
SJRWMD 25Y-24H	Pond 1.5	10.2509	24.46
SJRWMD 25Y-24H	Pond 1.5	10.5024	24.50

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.5	10.7507	24.54
SJRWMD 25Y-24H	Pond 1.5	11.0003	24.59
SJRWMD 25Y-24H	Pond 1.5	11.2517	24.64
SJRWMD 25Y-24H	Pond 1.5	11.5008	24.70
SJRWMD 25Y-24H	Pond 1.5	11.7504	24.85
SJRWMD 25Y-24H	Pond 1.5	12.0001	25.17
SJRWMD 25Y-24H	Pond 1.5	12.2503	25.62
SJRWMD 25Y-24H	Pond 1.5	12.5003	25.97
SJRWMD 25Y-24H	Pond 1.5	12.7513	26.14
SJRWMD 25Y-24H	Pond 1.5	13.0007	26.23
SJRWMD 25Y-24H	Pond 1.5	13.2514	26.27
SJRWMD 25Y-24H	Pond 1.5	13.5009	26.28
SJRWMD 25Y-24H	Pond 1.5	13.7519	26.29
SJRWMD 25Y-24H	Pond 1.5	14.0031	26.29
SJRWMD 25Y-24H	Pond 1.5	14.2505	26.29
SJRWMD 25Y-24H	Pond 1.5	14.5007	26.29
SJRWMD 25Y-24H	Pond 1.5	14.7510	26.29
SJRWMD 25Y-24H	Pond 1.5	15.0012	26.29
SJRWMD 25Y-24H	Pond 1.5	15.2510	26.28
SJRWMD 25Y-24H	Pond 1.5	15.5006	26.28
SJRWMD 25Y-24H	Pond 1.5	15.7551	26.27
SJRWMD 25Y-24H	Pond 1.5	16.0017	26.27
SJRWMD 25Y-24H	Pond 1.5	16.2530	26.27
SJRWMD 25Y-24H	Pond 1.5	16.5001	26.26
SJRWMD 25Y-24H	Pond 1.5	16.7543	26.26
SJRWMD 25Y-24H	Pond 1.5	17.0010	26.25
SJRWMD 25Y-24H	Pond 1.5	17.2535	26.24
SJRWMD 25Y-24H	Pond 1.5	17.5012	26.24
SJRWMD 25Y-24H	Pond 1.5	17.7516	26.23
SJRWMD 25Y-24H	Pond 1.5	18.0034	26.22
SJRWMD 25Y-24H	Pond 1.5	18.2528	26.22
SJRWMD 25Y-24H	Pond 1.5	18.5015	26.21
SJRWMD 25Y-24H	Pond 1.5	18.7512	26.20
SJRWMD 25Y-24H	Pond 1.5	19.0039	26.19
SJRWMD 25Y-24H	Pond 1.5	19.2505	26.19
SJRWMD 25Y-24H	Pond 1.5	19.5009	26.18
SJRWMD 25Y-24H	Pond 1.5	19.7532	26.17
SJRWMD 25Y-24H	Pond 1.5	20.0021	26.16
SJRWMD 25Y-24H	Pond 1.5	20.2550	26.15
SJRWMD 25Y-24H	Pond 1.5	20.5016	26.15
SJRWMD 25Y-24H	Pond 1.5	20.7509	26.14
SJRWMD 25Y-24H	Pond 1.5	21.0030	26.13

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.5	21.2507	26.12
SJRWMD 25Y-24H	Pond 1.5	21.5027	26.11
SJRWMD 25Y-24H	Pond 1.5	21.7525	26.10
SJRWMD 25Y-24H	Pond 1.5	22.0035	26.09
SJRWMD 25Y-24H	Pond 1.5	22.2526	26.08
SJRWMD 25Y-24H	Pond 1.5	22.5036	26.08
SJRWMD 25Y-24H	Pond 1.5	22.7516	26.07
SJRWMD 25Y-24H	Pond 1.5	23.0009	26.06
SJRWMD 25Y-24H	Pond 1.5	23.2534	26.05
SJRWMD 25Y-24H	Pond 1.5	23.5002	26.04
SJRWMD 25Y-24H	Pond 1.5	23.7546	26.03
SJRWMD 25Y-24H	Pond 1.5	24.0003	26.02
SJRWMD 25Y-24H	Pond 1.5	24.2503	26.01
SJRWMD 25Y-24H	Pond 1.5	24.5023	25.99
SJRWMD 25Y-24H	Pond 1.5	24.7528	25.98
SJRWMD 25Y-24H	Pond 1.5	25.0005	25.96
SJRWMD 25Y-24H	Pond 1.5	25.2542	25.94
SJRWMD 25Y-24H	Pond 1.5	25.5003	25.93
SJRWMD 25Y-24H	Pond 1.5	25.7549	25.91
SJRWMD 25Y-24H	Pond 1.5	26.0011	25.89
SJRWMD 25Y-24H	Pond 1.5	26.2544	25.88
SJRWMD 25Y-24H	Pond 1.5	26.5021	25.86
SJRWMD 25Y-24H	Pond 1.5	26.7536	25.85
SJRWMD 25Y-24H	Pond 1.5	27.0001	25.83
SJRWMD 25Y-24H	Pond 1.5	27.2501	25.82
SJRWMD 25Y-24H	Pond 1.5	27.5033	25.81
SJRWMD 25Y-24H	Pond 1.5	27.7517	25.79
SJRWMD 25Y-24H	Pond 1.5	28.0023	25.78
SJRWMD 25Y-24H	Pond 1.5	28.2515	25.77
SJRWMD 25Y-24H	Pond 1.5	28.5015	25.75
SJRWMD 25Y-24H	Pond 1.5	28.7502	25.74
SJRWMD 25Y-24H	Pond 1.5	29.0013	25.73
SJRWMD 25Y-24H	Pond 1.5	29.2502	25.72
SJRWMD 25Y-24H	Pond 1.5	29.5003	25.70
SJRWMD 25Y-24H	Pond 1.5	29.7501	25.69
SJRWMD 25Y-24H	Pond 1.5	30.0016	25.68
SJRWMD 25Y-24H	Pond 1.5	30.2503	25.67
SJRWMD 25Y-24H	Pond 1.5	30.5008	25.66
SJRWMD 25Y-24H	Pond 1.5	30.7540	25.65
SJRWMD 25Y-24H	Pond 1.5	31.0006	25.64
SJRWMD 25Y-24H	Pond 1.5	31.2512	25.63
SJRWMD 25Y-24H	Pond 1.5	31.5037	25.62

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.5	31.7503	25.61
SJRWMD 25Y-24H	Pond 1.5	32.0024	25.60
SJRWMD 25Y-24H	Pond 1.5	32.2512	25.59
SJRWMD 25Y-24H	Pond 1.5	32.5015	25.58
SJRWMD 25Y-24H	Pond 1.5	32.7550	25.57
SJRWMD 25Y-24H	Pond 1.5	33.0005	25.56
SJRWMD 25Y-24H	Pond 1.5	33.2502	25.55
SJRWMD 25Y-24H	Pond 1.5	33.5007	25.54
SJRWMD 25Y-24H	Pond 1.5	33.7501	25.53
SJRWMD 25Y-24H	Pond 1.5	34.0007	25.53
SJRWMD 25Y-24H	Pond 1.5	34.2523	25.52
SJRWMD 25Y-24H	Pond 1.5	34.5008	25.51
SJRWMD 25Y-24H	Pond 1.5	34.7500	25.50
SJRWMD 25Y-24H	Pond 1.5	35.0010	25.49
SJRWMD 25Y-24H	Pond 1.5	35.2501	25.49
SJRWMD 25Y-24H	Pond 1.5	35.5043	25.48
SJRWMD 25Y-24H	Pond 1.5	35.7519	25.47
SJRWMD 25Y-24H	Pond 1.5	36.0053	25.46
SJRWMD 25Y-24H	Pond 1.5	36.2513	25.46
SJRWMD 25Y-24H	Pond 1.5	36.5013	25.45
SJRWMD 25Y-24H	Pond 1.5	36.7509	25.44
SJRWMD 25Y-24H	Pond 1.5	37.0005	25.44
SJRWMD 25Y-24H	Pond 1.5	37.2528	25.43
SJRWMD 25Y-24H	Pond 1.5	37.5010	25.42
SJRWMD 25Y-24H	Pond 1.5	37.7512	25.42
SJRWMD 25Y-24H	Pond 1.5	38.0001	25.41
SJRWMD 25Y-24H	Pond 1.5	38.2506	25.40
SJRWMD 25Y-24H	Pond 1.5	38.5012	25.40
SJRWMD 25Y-24H	Pond 1.5	38.7517	25.39
SJRWMD 25Y-24H	Pond 1.5	39.0031	25.39
SJRWMD 25Y-24H	Pond 1.5	39.2520	25.38
SJRWMD 25Y-24H	Pond 1.5	39.5009	25.37
SJRWMD 25Y-24H	Pond 1.5	39.7545	25.37
SJRWMD 25Y-24H	Pond 1.5	40.0028	25.36
SJRWMD 25Y-24H	Pond 1.5	40.2531	25.36
SJRWMD 25Y-24H	Pond 1.5	40.5036	25.35
SJRWMD 25Y-24H	Pond 1.5	40.7509	25.35
SJRWMD 25Y-24H	Pond 1.5	41.0015	25.34
SJRWMD 25Y-24H	Pond 1.5	41.2504	25.34
SJRWMD 25Y-24H	Pond 1.5	41.5031	25.33
SJRWMD 25Y-24H	Pond 1.5	41.7531	25.33
SJRWMD 25Y-24H	Pond 1.5	42.0011	25.32

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.5	42.2526	25.32
SJRWMD 25Y-24H	Pond 1.5	42.5052	25.31
SJRWMD 25Y-24H	Pond 1.5	42.7580	25.31
SJRWMD 25Y-24H	Pond 1.5	43.0080	25.30
SJRWMD 25Y-24H	Pond 1.5	43.2580	25.30
SJRWMD 25Y-24H	Pond 1.5	43.5080	25.29
SJRWMD 25Y-24H	Pond 1.5	43.7580	25.29
SJRWMD 25Y-24H	Pond 1.5	44.0080	25.29
SJRWMD 25Y-24H	Pond 1.5	44.2580	25.28
SJRWMD 25Y-24H	Pond 1.5	44.5080	25.28
SJRWMD 25Y-24H	Pond 1.5	44.7580	25.27
SJRWMD 25Y-24H	Pond 1.5	45.0080	25.27
SJRWMD 25Y-24H	Pond 1.5	45.2580	25.26
SJRWMD 25Y-24H	Pond 1.5	45.5080	25.26
SJRWMD 25Y-24H	Pond 1.5	45.7580	25.26
SJRWMD 25Y-24H	Pond 1.5	46.0038	25.25
SJRWMD 25Y-24H	Pond 1.5	46.2580	25.25
SJRWMD 25Y-24H	Pond 1.5	46.5012	25.24
SJRWMD 25Y-24H	Pond 1.5	46.7504	25.24
SJRWMD 25Y-24H	Pond 1.5	47.0011	25.24
SJRWMD 25Y-24H	Pond 1.5	47.2544	25.23
SJRWMD 25Y-24H	Pond 1.5	47.5042	25.23
SJRWMD 25Y-24H	Pond 1.5	47.7504	25.23
SJRWMD 25Y-24H	Pond 1.5	48.0009	25.22
SJRWMD 25Y-24H	Pond 1.6	0.0000	24.29
SJRWMD 25Y-24H	Pond 1.6	0.2512	24.25
SJRWMD 25Y-24H	Pond 1.6	0.5002	24.20
SJRWMD 25Y-24H	Pond 1.6	0.7507	24.16
SJRWMD 25Y-24H	Pond 1.6	1.0008	24.13
SJRWMD 25Y-24H	Pond 1.6	1.2517	24.10
SJRWMD 25Y-24H	Pond 1.6	1.5006	24.08
SJRWMD 25Y-24H	Pond 1.6	1.7510	24.07
SJRWMD 25Y-24H	Pond 1.6	2.0004	24.06
SJRWMD 25Y-24H	Pond 1.6	2.2520	24.06
SJRWMD 25Y-24H	Pond 1.6	2.5029	24.06
SJRWMD 25Y-24H	Pond 1.6	2.7502	24.06
SJRWMD 25Y-24H	Pond 1.6	3.0011	24.07
SJRWMD 25Y-24H	Pond 1.6	3.2502	24.07
SJRWMD 25Y-24H	Pond 1.6	3.5010	24.07
SJRWMD 25Y-24H	Pond 1.6	3.7504	24.08
SJRWMD 25Y-24H	Pond 1.6	4.0013	24.08
SJRWMD 25Y-24H	Pond 1.6	4.2535	24.09

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.6	4.5015	24.10
SJRWMD 25Y-24H	Pond 1.6	4.7505	24.10
SJRWMD 25Y-24H	Pond 1.6	5.0021	24.11
SJRWMD 25Y-24H	Pond 1.6	5.2528	24.12
SJRWMD 25Y-24H	Pond 1.6	5.5008	24.13
SJRWMD 25Y-24H	Pond 1.6	5.7520	24.14
SJRWMD 25Y-24H	Pond 1.6	6.0040	24.15
SJRWMD 25Y-24H	Pond 1.6	6.2506	24.16
SJRWMD 25Y-24H	Pond 1.6	6.5021	24.17
SJRWMD 25Y-24H	Pond 1.6	6.7522	24.18
SJRWMD 25Y-24H	Pond 1.6	7.0029	24.19
SJRWMD 25Y-24H	Pond 1.6	7.2518	24.21
SJRWMD 25Y-24H	Pond 1.6	7.5020	24.22
SJRWMD 25Y-24H	Pond 1.6	7.7533	24.24
SJRWMD 25Y-24H	Pond 1.6	8.0008	24.25
SJRWMD 25Y-24H	Pond 1.6	8.2509	24.27
SJRWMD 25Y-24H	Pond 1.6	8.5025	24.29
SJRWMD 25Y-24H	Pond 1.6	8.7500	24.31
SJRWMD 25Y-24H	Pond 1.6	9.0046	24.33
SJRWMD 25Y-24H	Pond 1.6	9.2526	24.35
SJRWMD 25Y-24H	Pond 1.6	9.5034	24.38
SJRWMD 25Y-24H	Pond 1.6	9.7518	24.40
SJRWMD 25Y-24H	Pond 1.6	10.0002	24.43
SJRWMD 25Y-24H	Pond 1.6	10.2509	24.46
SJRWMD 25Y-24H	Pond 1.6	10.5024	24.50
SJRWMD 25Y-24H	Pond 1.6	10.7507	24.54
SJRWMD 25Y-24H	Pond 1.6	11.0003	24.59
SJRWMD 25Y-24H	Pond 1.6	11.2517	24.64
SJRWMD 25Y-24H	Pond 1.6	11.5008	24.72
SJRWMD 25Y-24H	Pond 1.6	11.7504	24.91
SJRWMD 25Y-24H	Pond 1.6	12.0001	25.37
SJRWMD 25Y-24H	Pond 1.6	12.2503	25.82
SJRWMD 25Y-24H	Pond 1.6	12.5003	26.12
SJRWMD 25Y-24H	Pond 1.6	12.7513	26.26
SJRWMD 25Y-24H	Pond 1.6	13.0007	26.32
SJRWMD 25Y-24H	Pond 1.6	13.2514	26.34
SJRWMD 25Y-24H	Pond 1.6	13.5009	26.35
SJRWMD 25Y-24H	Pond 1.6	13.7519	26.35
SJRWMD 25Y-24H	Pond 1.6	14.0031	26.35
SJRWMD 25Y-24H	Pond 1.6	14.2505	26.34
SJRWMD 25Y-24H	Pond 1.6	14.5007	26.33
SJRWMD 25Y-24H	Pond 1.6	14.7510	26.33

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.6	15.0012	26.32
SJRWMD 25Y-24H	Pond 1.6	15.2510	26.31
SJRWMD 25Y-24H	Pond 1.6	15.5006	26.31
SJRWMD 25Y-24H	Pond 1.6	15.7551	26.30
SJRWMD 25Y-24H	Pond 1.6	16.0017	26.29
SJRWMD 25Y-24H	Pond 1.6	16.2530	26.29
SJRWMD 25Y-24H	Pond 1.6	16.5001	26.28
SJRWMD 25Y-24H	Pond 1.6	16.7543	26.27
SJRWMD 25Y-24H	Pond 1.6	17.0010	26.27
SJRWMD 25Y-24H	Pond 1.6	17.2535	26.26
SJRWMD 25Y-24H	Pond 1.6	17.5012	26.25
SJRWMD 25Y-24H	Pond 1.6	17.7516	26.25
SJRWMD 25Y-24H	Pond 1.6	18.0034	26.24
SJRWMD 25Y-24H	Pond 1.6	18.2528	26.23
SJRWMD 25Y-24H	Pond 1.6	18.5015	26.22
SJRWMD 25Y-24H	Pond 1.6	18.7512	26.21
SJRWMD 25Y-24H	Pond 1.6	19.0039	26.21
SJRWMD 25Y-24H	Pond 1.6	19.2505	26.20
SJRWMD 25Y-24H	Pond 1.6	19.5009	26.19
SJRWMD 25Y-24H	Pond 1.6	19.7532	26.18
SJRWMD 25Y-24H	Pond 1.6	20.0021	26.17
SJRWMD 25Y-24H	Pond 1.6	20.2550	26.16
SJRWMD 25Y-24H	Pond 1.6	20.5016	26.16
SJRWMD 25Y-24H	Pond 1.6	20.7509	26.15
SJRWMD 25Y-24H	Pond 1.6	21.0030	26.14
SJRWMD 25Y-24H	Pond 1.6	21.2507	26.13
SJRWMD 25Y-24H	Pond 1.6	21.5027	26.12
SJRWMD 25Y-24H	Pond 1.6	21.7525	26.11
SJRWMD 25Y-24H	Pond 1.6	22.0035	26.10
SJRWMD 25Y-24H	Pond 1.6	22.2526	26.09
SJRWMD 25Y-24H	Pond 1.6	22.5036	26.08
SJRWMD 25Y-24H	Pond 1.6	22.7516	26.08
SJRWMD 25Y-24H	Pond 1.6	23.0009	26.07
SJRWMD 25Y-24H	Pond 1.6	23.2534	26.06
SJRWMD 25Y-24H	Pond 1.6	23.5002	26.05
SJRWMD 25Y-24H	Pond 1.6	23.7546	26.04
SJRWMD 25Y-24H	Pond 1.6	24.0003	26.03
SJRWMD 25Y-24H	Pond 1.6	24.2503	26.02
SJRWMD 25Y-24H	Pond 1.6	24.5023	26.00
SJRWMD 25Y-24H	Pond 1.6	24.7528	25.98
SJRWMD 25Y-24H	Pond 1.6	25.0005	25.97
SJRWMD 25Y-24H	Pond 1.6	25.2542	25.95

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.6	25.5003	25.93
SJRWMD 25Y-24H	Pond 1.6	25.7549	25.91
SJRWMD 25Y-24H	Pond 1.6	26.0011	25.90
SJRWMD 25Y-24H	Pond 1.6	26.2544	25.88
SJRWMD 25Y-24H	Pond 1.6	26.5021	25.87
SJRWMD 25Y-24H	Pond 1.6	26.7536	25.85
SJRWMD 25Y-24H	Pond 1.6	27.0001	25.84
SJRWMD 25Y-24H	Pond 1.6	27.2501	25.82
SJRWMD 25Y-24H	Pond 1.6	27.5033	25.81
SJRWMD 25Y-24H	Pond 1.6	27.7517	25.80
SJRWMD 25Y-24H	Pond 1.6	28.0023	25.78
SJRWMD 25Y-24H	Pond 1.6	28.2515	25.77
SJRWMD 25Y-24H	Pond 1.6	28.5015	25.76
SJRWMD 25Y-24H	Pond 1.6	28.7502	25.74
SJRWMD 25Y-24H	Pond 1.6	29.0013	25.73
SJRWMD 25Y-24H	Pond 1.6	29.2502	25.72
SJRWMD 25Y-24H	Pond 1.6	29.5003	25.71
SJRWMD 25Y-24H	Pond 1.6	29.7501	25.70
SJRWMD 25Y-24H	Pond 1.6	30.0016	25.68
SJRWMD 25Y-24H	Pond 1.6	30.2503	25.67
SJRWMD 25Y-24H	Pond 1.6	30.5008	25.66
SJRWMD 25Y-24H	Pond 1.6	30.7540	25.65
SJRWMD 25Y-24H	Pond 1.6	31.0006	25.64
SJRWMD 25Y-24H	Pond 1.6	31.2512	25.63
SJRWMD 25Y-24H	Pond 1.6	31.5037	25.62
SJRWMD 25Y-24H	Pond 1.6	31.7503	25.61
SJRWMD 25Y-24H	Pond 1.6	32.0024	25.60
SJRWMD 25Y-24H	Pond 1.6	32.2512	25.59
SJRWMD 25Y-24H	Pond 1.6	32.5015	25.58
SJRWMD 25Y-24H	Pond 1.6	32.7550	25.57
SJRWMD 25Y-24H	Pond 1.6	33.0005	25.56
SJRWMD 25Y-24H	Pond 1.6	33.2502	25.55
SJRWMD 25Y-24H	Pond 1.6	33.5007	25.55
SJRWMD 25Y-24H	Pond 1.6	33.7501	25.54
SJRWMD 25Y-24H	Pond 1.6	34.0007	25.53
SJRWMD 25Y-24H	Pond 1.6	34.2523	25.52
SJRWMD 25Y-24H	Pond 1.6	34.5008	25.51
SJRWMD 25Y-24H	Pond 1.6	34.7500	25.50
SJRWMD 25Y-24H	Pond 1.6	35.0010	25.50
SJRWMD 25Y-24H	Pond 1.6	35.2501	25.49
SJRWMD 25Y-24H	Pond 1.6	35.5043	25.48
SJRWMD 25Y-24H	Pond 1.6	35.7519	25.47



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.6	36.0053	25.47
SJRWMD 25Y-24H	Pond 1.6	36.2513	25.46
SJRWMD 25Y-24H	Pond 1.6	36.5013	25.45
SJRWMD 25Y-24H	Pond 1.6	36.7509	25.45
SJRWMD 25Y-24H	Pond 1.6	37.0005	25.44
SJRWMD 25Y-24H	Pond 1.6	37.2528	25.43
SJRWMD 25Y-24H	Pond 1.6	37.5010	25.43
SJRWMD 25Y-24H	Pond 1.6	37.7512	25.42
SJRWMD 25Y-24H	Pond 1.6	38.0001	25.41
SJRWMD 25Y-24H	Pond 1.6	38.2506	25.41
SJRWMD 25Y-24H	Pond 1.6	38.5012	25.40
SJRWMD 25Y-24H	Pond 1.6	38.7517	25.39
SJRWMD 25Y-24H	Pond 1.6	39.0031	25.39
SJRWMD 25Y-24H	Pond 1.6	39.2520	25.38
SJRWMD 25Y-24H	Pond 1.6	39.5009	25.38
SJRWMD 25Y-24H	Pond 1.6	39.7545	25.37
SJRWMD 25Y-24H	Pond 1.6	40.0028	25.37
SJRWMD 25Y-24H	Pond 1.6	40.2531	25.36
SJRWMD 25Y-24H	Pond 1.6	40.5036	25.35
SJRWMD 25Y-24H	Pond 1.6	40.7509	25.35
SJRWMD 25Y-24H	Pond 1.6	41.0015	25.34
SJRWMD 25Y-24H	Pond 1.6	41.2504	25.34
SJRWMD 25Y-24H	Pond 1.6	41.5031	25.33
SJRWMD 25Y-24H	Pond 1.6	41.7531	25.33
SJRWMD 25Y-24H	Pond 1.6	42.0011	25.32
SJRWMD 25Y-24H	Pond 1.6	42.2526	25.32
SJRWMD 25Y-24H	Pond 1.6	42.5052	25.31
SJRWMD 25Y-24H	Pond 1.6	42.7580	25.31
SJRWMD 25Y-24H	Pond 1.6	43.0080	25.31
SJRWMD 25Y-24H	Pond 1.6	43.2580	25.30
SJRWMD 25Y-24H	Pond 1.6	43.5080	25.30
SJRWMD 25Y-24H	Pond 1.6	43.7580	25.29
SJRWMD 25Y-24H	Pond 1.6	44.0080	25.29
SJRWMD 25Y-24H	Pond 1.6	44.2580	25.28
SJRWMD 25Y-24H	Pond 1.6	44.5080	25.28
SJRWMD 25Y-24H	Pond 1.6	44.7580	25.27
SJRWMD 25Y-24H	Pond 1.6	45.0080	25.27
SJRWMD 25Y-24H	Pond 1.6	45.2580	25.27
SJRWMD 25Y-24H	Pond 1.6	45.5080	25.26
SJRWMD 25Y-24H	Pond 1.6	45.7580	25.26
SJRWMD 25Y-24H	Pond 1.6	46.0038	25.25
SJRWMD 25Y-24H	Pond 1.6	46.2580	25.25

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.6	46.5012	25.25
SJRWMD 25Y-24H	Pond 1.6	46.7504	25.24
SJRWMD 25Y-24H	Pond 1.6	47.0011	25.24
SJRWMD 25Y-24H	Pond 1.6	47.2544	25.24
SJRWMD 25Y-24H	Pond 1.6	47.5042	25.23
SJRWMD 25Y-24H	Pond 1.6	47.7504	25.23
SJRWMD 25Y-24H	Pond 1.6	48.0009	25.23
SJRWMD 25Y-24H	Pond 1.7	0.0000	24.29
SJRWMD 25Y-24H	Pond 1.7	0.2512	24.29
SJRWMD 25Y-24H	Pond 1.7	0.5002	24.29
SJRWMD 25Y-24H	Pond 1.7	0.7507	24.29
SJRWMD 25Y-24H	Pond 1.7	1.0008	24.29
SJRWMD 25Y-24H	Pond 1.7	1.2517	24.29
SJRWMD 25Y-24H	Pond 1.7	1.5006	24.29
SJRWMD 25Y-24H	Pond 1.7	1.7510	24.29
SJRWMD 25Y-24H	Pond 1.7	2.0004	24.29
SJRWMD 25Y-24H	Pond 1.7	2.2520	24.29
SJRWMD 25Y-24H	Pond 1.7	2.5029	24.29
SJRWMD 25Y-24H	Pond 1.7	2.7502	24.30
SJRWMD 25Y-24H	Pond 1.7	3.0011	24.30
SJRWMD 25Y-24H	Pond 1.7	3.2502	24.30
SJRWMD 25Y-24H	Pond 1.7	3.5010	24.31
SJRWMD 25Y-24H	Pond 1.7	3.7504	24.31
SJRWMD 25Y-24H	Pond 1.7	4.0013	24.32
SJRWMD 25Y-24H	Pond 1.7	4.2535	24.32
SJRWMD 25Y-24H	Pond 1.7	4.5015	24.33
SJRWMD 25Y-24H	Pond 1.7	4.7505	24.33
SJRWMD 25Y-24H	Pond 1.7	5.0021	24.34
SJRWMD 25Y-24H	Pond 1.7	5.2528	24.35
SJRWMD 25Y-24H	Pond 1.7	5.5008	24.35
SJRWMD 25Y-24H	Pond 1.7	5.7520	24.36
SJRWMD 25Y-24H	Pond 1.7	6.0040	24.37
SJRWMD 25Y-24H	Pond 1.7	6.2506	24.38
SJRWMD 25Y-24H	Pond 1.7	6.5021	24.39
SJRWMD 25Y-24H	Pond 1.7	6.7522	24.40
SJRWMD 25Y-24H	Pond 1.7	7.0029	24.41
SJRWMD 25Y-24H	Pond 1.7	7.2518	24.42
SJRWMD 25Y-24H	Pond 1.7	7.5020	24.44
SJRWMD 25Y-24H	Pond 1.7	7.7533	24.45
SJRWMD 25Y-24H	Pond 1.7	8.0008	24.46
SJRWMD 25Y-24H	Pond 1.7	8.2509	24.48
SJRWMD 25Y-24H	Pond 1.7	8.5025	24.49

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.7	8.7500	24.51
SJRWMD 25Y-24H	Pond 1.7	9.0046	24.52
SJRWMD 25Y-24H	Pond 1.7	9.2526	24.54
SJRWMD 25Y-24H	Pond 1.7	9.5034	24.56
SJRWMD 25Y-24H	Pond 1.7	9.7518	24.58
SJRWMD 25Y-24H	Pond 1.7	10.0002	24.60
SJRWMD 25Y-24H	Pond 1.7	10.2509	24.63
SJRWMD 25Y-24H	Pond 1.7	10.5024	24.66
SJRWMD 25Y-24H	Pond 1.7	10.7507	24.68
SJRWMD 25Y-24H	Pond 1.7	11.0003	24.72
SJRWMD 25Y-24H	Pond 1.7	11.2517	24.75
SJRWMD 25Y-24H	Pond 1.7	11.5008	24.80
SJRWMD 25Y-24H	Pond 1.7	11.7504	24.86
SJRWMD 25Y-24H	Pond 1.7	12.0001	24.97
SJRWMD 25Y-24H	Pond 1.7	12.2503	25.14
SJRWMD 25Y-24H	Pond 1.7	12.5003	25.33
SJRWMD 25Y-24H	Pond 1.7	12.7513	25.51
SJRWMD 25Y-24H	Pond 1.7	13.0007	25.67
SJRWMD 25Y-24H	Pond 1.7	13.2514	25.81
SJRWMD 25Y-24H	Pond 1.7	13.5009	25.93
SJRWMD 25Y-24H	Pond 1.7	13.7519	26.03
SJRWMD 25Y-24H	Pond 1.7	14.0031	26.12
SJRWMD 25Y-24H	Pond 1.7	14.2505	26.18
SJRWMD 25Y-24H	Pond 1.7	14.5007	26.23
SJRWMD 25Y-24H	Pond 1.7	14.7510	26.26
SJRWMD 25Y-24H	Pond 1.7	15.0012	26.28
SJRWMD 25Y-24H	Pond 1.7	15.2510	26.29
SJRWMD 25Y-24H	Pond 1.7	15.5006	26.30
SJRWMD 25Y-24H	Pond 1.7	15.7551	26.30
SJRWMD 25Y-24H	Pond 1.7	16.0017	26.30
SJRWMD 25Y-24H	Pond 1.7	16.2530	26.30
SJRWMD 25Y-24H	Pond 1.7	16.5001	26.30
SJRWMD 25Y-24H	Pond 1.7	16.7543	26.30
SJRWMD 25Y-24H	Pond 1.7	17.0010	26.30
SJRWMD 25Y-24H	Pond 1.7	17.2535	26.30
SJRWMD 25Y-24H	Pond 1.7	17.5012	26.30
SJRWMD 25Y-24H	Pond 1.7	17.7516	26.29
SJRWMD 25Y-24H	Pond 1.7	18.0034	26.29
SJRWMD 25Y-24H	Pond 1.7	18.2528	26.28
SJRWMD 25Y-24H	Pond 1.7	18.5015	26.28
SJRWMD 25Y-24H	Pond 1.7	18.7512	26.28
SJRWMD 25Y-24H	Pond 1.7	19.0039	26.27

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.7	19.2505	26.26
SJRWMD 25Y-24H	Pond 1.7	19.5009	26.26
SJRWMD 25Y-24H	Pond 1.7	19.7532	26.25
SJRWMD 25Y-24H	Pond 1.7	20.0021	26.25
SJRWMD 25Y-24H	Pond 1.7	20.2550	26.24
SJRWMD 25Y-24H	Pond 1.7	20.5016	26.23
SJRWMD 25Y-24H	Pond 1.7	20.7509	26.23
SJRWMD 25Y-24H	Pond 1.7	21.0030	26.22
SJRWMD 25Y-24H	Pond 1.7	21.2507	26.21
SJRWMD 25Y-24H	Pond 1.7	21.5027	26.21
SJRWMD 25Y-24H	Pond 1.7	21.7525	26.20
SJRWMD 25Y-24H	Pond 1.7	22.0035	26.19
SJRWMD 25Y-24H	Pond 1.7	22.2526	26.19
SJRWMD 25Y-24H	Pond 1.7	22.5036	26.18
SJRWMD 25Y-24H	Pond 1.7	22.7516	26.17
SJRWMD 25Y-24H	Pond 1.7	23.0009	26.17
SJRWMD 25Y-24H	Pond 1.7	23.2534	26.16
SJRWMD 25Y-24H	Pond 1.7	23.5002	26.15
SJRWMD 25Y-24H	Pond 1.7	23.7546	26.14
SJRWMD 25Y-24H	Pond 1.7	24.0003	26.14
SJRWMD 25Y-24H	Pond 1.7	24.2503	26.13
SJRWMD 25Y-24H	Pond 1.7	24.5023	26.11
SJRWMD 25Y-24H	Pond 1.7	24.7528	26.10
SJRWMD 25Y-24H	Pond 1.7	25.0005	26.09
SJRWMD 25Y-24H	Pond 1.7	25.2542	26.07
SJRWMD 25Y-24H	Pond 1.7	25.5003	26.06
SJRWMD 25Y-24H	Pond 1.7	25.7549	26.04
SJRWMD 25Y-24H	Pond 1.7	26.0011	26.03
SJRWMD 25Y-24H	Pond 1.7	26.2544	26.02
SJRWMD 25Y-24H	Pond 1.7	26.5021	26.00
SJRWMD 25Y-24H	Pond 1.7	26.7536	25.99
SJRWMD 25Y-24H	Pond 1.7	27.0001	25.98
SJRWMD 25Y-24H	Pond 1.7	27.2501	25.96
SJRWMD 25Y-24H	Pond 1.7	27.5033	25.95
SJRWMD 25Y-24H	Pond 1.7	27.7517	25.94
SJRWMD 25Y-24H	Pond 1.7	28.0023	25.92
SJRWMD 25Y-24H	Pond 1.7	28.2515	25.91
SJRWMD 25Y-24H	Pond 1.7	28.5015	25.90
SJRWMD 25Y-24H	Pond 1.7	28.7502	25.89
SJRWMD 25Y-24H	Pond 1.7	29.0013	25.88
SJRWMD 25Y-24H	Pond 1.7	29.2502	25.87
SJRWMD 25Y-24H	Pond 1.7	29.5003	25.85

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.7	29.7501	25.84
SJRWMD 25Y-24H	Pond 1.7	30.0016	25.83
SJRWMD 25Y-24H	Pond 1.7	30.2503	25.82
SJRWMD 25Y-24H	Pond 1.7	30.5008	25.81
SJRWMD 25Y-24H	Pond 1.7	30.7540	25.80
SJRWMD 25Y-24H	Pond 1.7	31.0006	25.79
SJRWMD 25Y-24H	Pond 1.7	31.2512	25.78
SJRWMD 25Y-24H	Pond 1.7	31.5037	25.77
SJRWMD 25Y-24H	Pond 1.7	31.7503	25.76
SJRWMD 25Y-24H	Pond 1.7	32.0024	25.75
SJRWMD 25Y-24H	Pond 1.7	32.2512	25.74
SJRWMD 25Y-24H	Pond 1.7	32.5015	25.73
SJRWMD 25Y-24H	Pond 1.7	32.7550	25.72
SJRWMD 25Y-24H	Pond 1.7	33.0005	25.72
SJRWMD 25Y-24H	Pond 1.7	33.2502	25.71
SJRWMD 25Y-24H	Pond 1.7	33.5007	25.70
SJRWMD 25Y-24H	Pond 1.7	33.7501	25.69
SJRWMD 25Y-24H	Pond 1.7	34.0007	25.68
SJRWMD 25Y-24H	Pond 1.7	34.2523	25.67
SJRWMD 25Y-24H	Pond 1.7	34.5008	25.66
SJRWMD 25Y-24H	Pond 1.7	34.7500	25.66
SJRWMD 25Y-24H	Pond 1.7	35.0010	25.65
SJRWMD 25Y-24H	Pond 1.7	35.2501	25.64
SJRWMD 25Y-24H	Pond 1.7	35.5043	25.63
SJRWMD 25Y-24H	Pond 1.7	35.7519	25.63
SJRWMD 25Y-24H	Pond 1.7	36.0053	25.62
SJRWMD 25Y-24H	Pond 1.7	36.2513	25.61
SJRWMD 25Y-24H	Pond 1.7	36.5013	25.60
SJRWMD 25Y-24H	Pond 1.7	36.7509	25.60
SJRWMD 25Y-24H	Pond 1.7	37.0005	25.59
SJRWMD 25Y-24H	Pond 1.7	37.2528	25.58
SJRWMD 25Y-24H	Pond 1.7	37.5010	25.58
SJRWMD 25Y-24H	Pond 1.7	37.7512	25.57
SJRWMD 25Y-24H	Pond 1.7	38.0001	25.56
SJRWMD 25Y-24H	Pond 1.7	38.2506	25.56
SJRWMD 25Y-24H	Pond 1.7	38.5012	25.55
SJRWMD 25Y-24H	Pond 1.7	38.7517	25.54
SJRWMD 25Y-24H	Pond 1.7	39.0031	25.54
SJRWMD 25Y-24H	Pond 1.7	39.2520	25.53
SJRWMD 25Y-24H	Pond 1.7	39.5009	25.52
SJRWMD 25Y-24H	Pond 1.7	39.7545	25.52
SJRWMD 25Y-24H	Pond 1.7	40.0028	25.51

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.7	40.2531	25.51
SJRWMD 25Y-24H	Pond 1.7	40.5036	25.50
SJRWMD 25Y-24H	Pond 1.7	40.7509	25.50
SJRWMD 25Y-24H	Pond 1.7	41.0015	25.49
SJRWMD 25Y-24H	Pond 1.7	41.2504	25.48
SJRWMD 25Y-24H	Pond 1.7	41.5031	25.48
SJRWMD 25Y-24H	Pond 1.7	41.7531	25.47
SJRWMD 25Y-24H	Pond 1.7	42.0011	25.47
SJRWMD 25Y-24H	Pond 1.7	42.2526	25.46
SJRWMD 25Y-24H	Pond 1.7	42.5052	25.46
SJRWMD 25Y-24H	Pond 1.7	42.7580	25.45
SJRWMD 25Y-24H	Pond 1.7	43.0080	25.45
SJRWMD 25Y-24H	Pond 1.7	43.2580	25.44
SJRWMD 25Y-24H	Pond 1.7	43.5080	25.44
SJRWMD 25Y-24H	Pond 1.7	43.7580	25.43
SJRWMD 25Y-24H	Pond 1.7	44.0080	25.43
SJRWMD 25Y-24H	Pond 1.7	44.2580	25.42
SJRWMD 25Y-24H	Pond 1.7	44.5080	25.42
SJRWMD 25Y-24H	Pond 1.7	44.7580	25.41
SJRWMD 25Y-24H	Pond 1.7	45.0080	25.41
SJRWMD 25Y-24H	Pond 1.7	45.2580	25.41
SJRWMD 25Y-24H	Pond 1.7	45.5080	25.40
SJRWMD 25Y-24H	Pond 1.7	45.7580	25.40
SJRWMD 25Y-24H	Pond 1.7	46.0038	25.39
SJRWMD 25Y-24H	Pond 1.7	46.2580	25.39
SJRWMD 25Y-24H	Pond 1.7	46.5012	25.38
SJRWMD 25Y-24H	Pond 1.7	46.7504	25.38
SJRWMD 25Y-24H	Pond 1.7	47.0011	25.38
SJRWMD 25Y-24H	Pond 1.7	47.2544	25.37
SJRWMD 25Y-24H	Pond 1.7	47.5042	25.37
SJRWMD 25Y-24H	Pond 1.7	47.7504	25.36
SJRWMD 25Y-24H	Pond 1.7	48.0009	25.36
SJRWMD 25Y-24H	Pond 1.8	0.0000	23.74
SJRWMD 25Y-24H	Pond 1.8	0.2512	23.79
SJRWMD 25Y-24H	Pond 1.8	0.5002	23.85
SJRWMD 25Y-24H	Pond 1.8	0.7507	23.91
SJRWMD 25Y-24H	Pond 1.8	1.0008	23.96
SJRWMD 25Y-24H	Pond 1.8	1.2517	24.00
SJRWMD 25Y-24H	Pond 1.8	1.5006	24.03
SJRWMD 25Y-24H	Pond 1.8	1.7510	24.05
SJRWMD 25Y-24H	Pond 1.8	2.0004	24.05
SJRWMD 25Y-24H	Pond 1.8	2.2520	24.06

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.8	2.5029	24.06
SJRWMD 25Y-24H	Pond 1.8	2.7502	24.06
SJRWMD 25Y-24H	Pond 1.8	3.0011	24.06
SJRWMD 25Y-24H	Pond 1.8	3.2502	24.06
SJRWMD 25Y-24H	Pond 1.8	3.5010	24.07
SJRWMD 25Y-24H	Pond 1.8	3.7504	24.07
SJRWMD 25Y-24H	Pond 1.8	4.0013	24.08
SJRWMD 25Y-24H	Pond 1.8	4.2535	24.08
SJRWMD 25Y-24H	Pond 1.8	4.5015	24.09
SJRWMD 25Y-24H	Pond 1.8	4.7505	24.10
SJRWMD 25Y-24H	Pond 1.8	5.0021	24.10
SJRWMD 25Y-24H	Pond 1.8	5.2528	24.11
SJRWMD 25Y-24H	Pond 1.8	5.5008	24.12
SJRWMD 25Y-24H	Pond 1.8	5.7520	24.13
SJRWMD 25Y-24H	Pond 1.8	6.0040	24.14
SJRWMD 25Y-24H	Pond 1.8	6.2506	24.15
SJRWMD 25Y-24H	Pond 1.8	6.5021	24.16
SJRWMD 25Y-24H	Pond 1.8	6.7522	24.17
SJRWMD 25Y-24H	Pond 1.8	7.0029	24.18
SJRWMD 25Y-24H	Pond 1.8	7.2518	24.20
SJRWMD 25Y-24H	Pond 1.8	7.5020	24.21
SJRWMD 25Y-24H	Pond 1.8	7.7533	24.23
SJRWMD 25Y-24H	Pond 1.8	8.0008	24.24
SJRWMD 25Y-24H	Pond 1.8	8.2509	24.26
SJRWMD 25Y-24H	Pond 1.8	8.5025	24.28
SJRWMD 25Y-24H	Pond 1.8	8.7500	24.29
SJRWMD 25Y-24H	Pond 1.8	9.0046	24.32
SJRWMD 25Y-24H	Pond 1.8	9.2526	24.34
SJRWMD 25Y-24H	Pond 1.8	9.5034	24.36
SJRWMD 25Y-24H	Pond 1.8	9.7518	24.38
SJRWMD 25Y-24H	Pond 1.8	10.0002	24.41
SJRWMD 25Y-24H	Pond 1.8	10.2509	24.44
SJRWMD 25Y-24H	Pond 1.8	10.5024	24.47
SJRWMD 25Y-24H	Pond 1.8	10.7507	24.51
SJRWMD 25Y-24H	Pond 1.8	11.0003	24.55
SJRWMD 25Y-24H	Pond 1.8	11.2517	24.59
SJRWMD 25Y-24H	Pond 1.8	11.5008	24.64
SJRWMD 25Y-24H	Pond 1.8	11.7504	24.71
SJRWMD 25Y-24H	Pond 1.8	12.0001	24.84
SJRWMD 25Y-24H	Pond 1.8	12.2503	25.02
SJRWMD 25Y-24H	Pond 1.8	12.5003	25.22
SJRWMD 25Y-24H	Pond 1.8	12.7513	25.40

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.8	13.0007	25.55
SJRWMD 25Y-24H	Pond 1.8	13.2514	25.68
SJRWMD 25Y-24H	Pond 1.8	13.5009	25.78
SJRWMD 25Y-24H	Pond 1.8	13.7519	25.87
SJRWMD 25Y-24H	Pond 1.8	14.0031	25.93
SJRWMD 25Y-24H	Pond 1.8	14.2505	25.99
SJRWMD 25Y-24H	Pond 1.8	14.5007	26.03
SJRWMD 25Y-24H	Pond 1.8	14.7510	26.06
SJRWMD 25Y-24H	Pond 1.8	15.0012	26.09
SJRWMD 25Y-24H	Pond 1.8	15.2510	26.11
SJRWMD 25Y-24H	Pond 1.8	15.5006	26.13
SJRWMD 25Y-24H	Pond 1.8	15.7551	26.14
SJRWMD 25Y-24H	Pond 1.8	16.0017	26.15
SJRWMD 25Y-24H	Pond 1.8	16.2530	26.15
SJRWMD 25Y-24H	Pond 1.8	16.5001	26.15
SJRWMD 25Y-24H	Pond 1.8	16.7543	26.15
SJRWMD 25Y-24H	Pond 1.8	17.0010	26.15
SJRWMD 25Y-24H	Pond 1.8	17.2535	26.15
SJRWMD 25Y-24H	Pond 1.8	17.5012	26.15
SJRWMD 25Y-24H	Pond 1.8	17.7516	26.15
SJRWMD 25Y-24H	Pond 1.8	18.0034	26.14
SJRWMD 25Y-24H	Pond 1.8	18.2528	26.14
SJRWMD 25Y-24H	Pond 1.8	18.5015	26.13
SJRWMD 25Y-24H	Pond 1.8	18.7512	26.13
SJRWMD 25Y-24H	Pond 1.8	19.0039	26.12
SJRWMD 25Y-24H	Pond 1.8	19.2505	26.12
SJRWMD 25Y-24H	Pond 1.8	19.5009	26.11
SJRWMD 25Y-24H	Pond 1.8	19.7532	26.10
SJRWMD 25Y-24H	Pond 1.8	20.0021	26.10
SJRWMD 25Y-24H	Pond 1.8	20.2550	26.09
SJRWMD 25Y-24H	Pond 1.8	20.5016	26.08
SJRWMD 25Y-24H	Pond 1.8	20.7509	26.07
SJRWMD 25Y-24H	Pond 1.8	21.0030	26.07
SJRWMD 25Y-24H	Pond 1.8	21.2507	26.06
SJRWMD 25Y-24H	Pond 1.8	21.5027	26.05
SJRWMD 25Y-24H	Pond 1.8	21.7525	26.04
SJRWMD 25Y-24H	Pond 1.8	22.0035	26.04
SJRWMD 25Y-24H	Pond 1.8	22.2526	26.03
SJRWMD 25Y-24H	Pond 1.8	22.5036	26.02
SJRWMD 25Y-24H	Pond 1.8	22.7516	26.01
SJRWMD 25Y-24H	Pond 1.8	23.0009	26.01
SJRWMD 25Y-24H	Pond 1.8	23.2534	26.00



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.8	23.5002	25.99
SJRWMD 25Y-24H	Pond 1.8	23.7546	25.98
SJRWMD 25Y-24H	Pond 1.8	24.0003	25.97
SJRWMD 25Y-24H	Pond 1.8	24.2503	25.96
SJRWMD 25Y-24H	Pond 1.8	24.5023	25.95
SJRWMD 25Y-24H	Pond 1.8	24.7528	25.94
SJRWMD 25Y-24H	Pond 1.8	25.0005	25.92
SJRWMD 25Y-24H	Pond 1.8	25.2542	25.91
SJRWMD 25Y-24H	Pond 1.8	25.5003	25.89
SJRWMD 25Y-24H	Pond 1.8	25.7549	25.88
SJRWMD 25Y-24H	Pond 1.8	26.0011	25.86
SJRWMD 25Y-24H	Pond 1.8	26.2544	25.85
SJRWMD 25Y-24H	Pond 1.8	26.5021	25.84
SJRWMD 25Y-24H	Pond 1.8	26.7536	25.82
SJRWMD 25Y-24H	Pond 1.8	27.0001	25.81
SJRWMD 25Y-24H	Pond 1.8	27.2501	25.80
SJRWMD 25Y-24H	Pond 1.8	27.5033	25.78
SJRWMD 25Y-24H	Pond 1.8	27.7517	25.77
SJRWMD 25Y-24H	Pond 1.8	28.0023	25.76
SJRWMD 25Y-24H	Pond 1.8	28.2515	25.75
SJRWMD 25Y-24H	Pond 1.8	28.5015	25.73
SJRWMD 25Y-24H	Pond 1.8	28.7502	25.72
SJRWMD 25Y-24H	Pond 1.8	29.0013	25.71
SJRWMD 25Y-24H	Pond 1.8	29.2502	25.70
SJRWMD 25Y-24H	Pond 1.8	29.5003	25.69
SJRWMD 25Y-24H	Pond 1.8	29.7501	25.68
SJRWMD 25Y-24H	Pond 1.8	30.0016	25.67
SJRWMD 25Y-24H	Pond 1.8	30.2503	25.66
SJRWMD 25Y-24H	Pond 1.8	30.5008	25.65
SJRWMD 25Y-24H	Pond 1.8	30.7540	25.64
SJRWMD 25Y-24H	Pond 1.8	31.0006	25.63
SJRWMD 25Y-24H	Pond 1.8	31.2512	25.62
SJRWMD 25Y-24H	Pond 1.8	31.5037	25.61
SJRWMD 25Y-24H	Pond 1.8	31.7503	25.60
SJRWMD 25Y-24H	Pond 1.8	32.0024	25.59
SJRWMD 25Y-24H	Pond 1.8	32.2512	25.58
SJRWMD 25Y-24H	Pond 1.8	32.5015	25.57
SJRWMD 25Y-24H	Pond 1.8	32.7550	25.56
SJRWMD 25Y-24H	Pond 1.8	33.0005	25.55
SJRWMD 25Y-24H	Pond 1.8	33.2502	25.55
SJRWMD 25Y-24H	Pond 1.8	33.5007	25.54
SJRWMD 25Y-24H	Pond 1.8	33.7501	25.53

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.8	34.0007	25.52
SJRWMD 25Y-24H	Pond 1.8	34.2523	25.51
SJRWMD 25Y-24H	Pond 1.8	34.5008	25.50
SJRWMD 25Y-24H	Pond 1.8	34.7500	25.50
SJRWMD 25Y-24H	Pond 1.8	35.0010	25.49
SJRWMD 25Y-24H	Pond 1.8	35.2501	25.48
SJRWMD 25Y-24H	Pond 1.8	35.5043	25.47
SJRWMD 25Y-24H	Pond 1.8	35.7519	25.47
SJRWMD 25Y-24H	Pond 1.8	36.0053	25.46
SJRWMD 25Y-24H	Pond 1.8	36.2513	25.45
SJRWMD 25Y-24H	Pond 1.8	36.5013	25.45
SJRWMD 25Y-24H	Pond 1.8	36.7509	25.44
SJRWMD 25Y-24H	Pond 1.8	37.0005	25.43
SJRWMD 25Y-24H	Pond 1.8	37.2528	25.43
SJRWMD 25Y-24H	Pond 1.8	37.5010	25.42
SJRWMD 25Y-24H	Pond 1.8	37.7512	25.41
SJRWMD 25Y-24H	Pond 1.8	38.0001	25.41
SJRWMD 25Y-24H	Pond 1.8	38.2506	25.40
SJRWMD 25Y-24H	Pond 1.8	38.5012	25.40
SJRWMD 25Y-24H	Pond 1.8	38.7517	25.39
SJRWMD 25Y-24H	Pond 1.8	39.0031	25.38
SJRWMD 25Y-24H	Pond 1.8	39.2520	25.38
SJRWMD 25Y-24H	Pond 1.8	39.5009	25.37
SJRWMD 25Y-24H	Pond 1.8	39.7545	25.37
SJRWMD 25Y-24H	Pond 1.8	40.0028	25.36
SJRWMD 25Y-24H	Pond 1.8	40.2531	25.36
SJRWMD 25Y-24H	Pond 1.8	40.5036	25.35
SJRWMD 25Y-24H	Pond 1.8	40.7509	25.35
SJRWMD 25Y-24H	Pond 1.8	41.0015	25.34
SJRWMD 25Y-24H	Pond 1.8	41.2504	25.34
SJRWMD 25Y-24H	Pond 1.8	41.5031	25.33
SJRWMD 25Y-24H	Pond 1.8	41.7531	25.33
SJRWMD 25Y-24H	Pond 1.8	42.0011	25.32
SJRWMD 25Y-24H	Pond 1.8	42.2526	25.32
SJRWMD 25Y-24H	Pond 1.8	42.5052	25.31
SJRWMD 25Y-24H	Pond 1.8	42.7580	25.31
SJRWMD 25Y-24H	Pond 1.8	43.0080	25.30
SJRWMD 25Y-24H	Pond 1.8	43.2580	25.30
SJRWMD 25Y-24H	Pond 1.8	43.5080	25.29
SJRWMD 25Y-24H	Pond 1.8	43.7580	25.29
SJRWMD 25Y-24H	Pond 1.8	44.0080	25.28
SJRWMD 25Y-24H	Pond 1.8	44.2580	25.28

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Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 1.8	44.5080	25.28
SJRWMD 25Y-24H	Pond 1.8	44.7580	25.27
SJRWMD 25Y-24H	Pond 1.8	45.0080	25.27
SJRWMD 25Y-24H	Pond 1.8	45.2580	25.26
SJRWMD 25Y-24H	Pond 1.8	45.5080	25.26
SJRWMD 25Y-24H	Pond 1.8	45.7580	25.26
SJRWMD 25Y-24H	Pond 1.8	46.0038	25.25
SJRWMD 25Y-24H	Pond 1.8	46.2580	25.25
SJRWMD 25Y-24H	Pond 1.8	46.5012	25.24
SJRWMD 25Y-24H	Pond 1.8	46.7504	25.24
SJRWMD 25Y-24H	Pond 1.8	47.0011	25.24
SJRWMD 25Y-24H	Pond 1.8	47.2544	25.23
SJRWMD 25Y-24H	Pond 1.8	47.5042	25.23
SJRWMD 25Y-24H	Pond 1.8	47.7504	25.23
SJRWMD 25Y-24H	Pond 1.8	48.0009	25.22

Alternative 2

## Alternate 2

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	0.0000	24.36
SJRWMD 25Y-24H	Exist Wet Pond	0.2511	24.33
SJRWMD 25Y-24H	Exist Wet Pond	0.5050	24.33
SJRWMD 25Y-24H	Exist Wet Pond	0.7527	24.33
SJRWMD 25Y-24H	Exist Wet Pond	1.0027	24.33
SJRWMD 25Y-24H	Exist Wet Pond	1.2527	24.33
SJRWMD 25Y-24H	Exist Wet Pond	1.5027	24.33
SJRWMD 25Y-24H	Exist Wet Pond	1.7527	24.33
SJRWMD 25Y-24H	Exist Wet Pond	2.0027	24.33
SJRWMD 25Y-24H	Exist Wet Pond	2.2527	24.33
SJRWMD 25Y-24H	Exist Wet Pond	2.5027	24.33
SJRWMD 25Y-24H	Exist Wet Pond	2.7512	24.33
SJRWMD 25Y-24H	Exist Wet Pond	3.0001	24.34
SJRWMD 25Y-24H	Exist Wet Pond	3.2502	24.34
SJRWMD 25Y-24H	Exist Wet Pond	3.5004	24.35
SJRWMD 25Y-24H	Exist Wet Pond	3.7513	24.35
SJRWMD 25Y-24H	Exist Wet Pond	4.0000	24.36
SJRWMD 25Y-24H	Exist Wet Pond	4.2519	24.37
SJRWMD 25Y-24H	Exist Wet Pond	4.5035	24.37
SJRWMD 25Y-24H	Exist Wet Pond	4.7520	24.38
SJRWMD 25Y-24H	Exist Wet Pond	5.0019	24.39
SJRWMD 25Y-24H	Exist Wet Pond	5.2528	24.40
SJRWMD 25Y-24H	Exist Wet Pond	5.5021	24.41
SJRWMD 25Y-24H	Exist Wet Pond	5.7525	24.42
SJRWMD 25Y-24H	Exist Wet Pond	6.0007	24.43
SJRWMD 25Y-24H	Exist Wet Pond	6.2526	24.44
SJRWMD 25Y-24H	Exist Wet Pond	6.5029	24.46
SJRWMD 25Y-24H	Exist Wet Pond	6.7520	24.47
SJRWMD 25Y-24H	Exist Wet Pond	7.0008	24.48
SJRWMD 25Y-24H	Exist Wet Pond	7.2517	24.50
SJRWMD 25Y-24H	Exist Wet Pond	7.5001	24.52
SJRWMD 25Y-24H	Exist Wet Pond	7.7525	24.53
SJRWMD 25Y-24H	Exist Wet Pond	8.0013	24.55
SJRWMD 25Y-24H	Exist Wet Pond	8.2503	24.57
SJRWMD 25Y-24H	Exist Wet Pond	8.5008	24.59
SJRWMD 25Y-24H	Exist Wet Pond	8.7509	24.61
SJRWMD 25Y-24H	Exist Wet Pond	9.0006	24.63
SJRWMD 25Y-24H	Exist Wet Pond	9.2509	24.66
SJRWMD 25Y-24H	Exist Wet Pond	9.5005	24.68
SJRWMD 25Y-24H	Exist Wet Pond	9.7505	24.71
SJRWMD 25Y-24H	Exist Wet Pond	10.0016	24.74
SJRWMD 25Y-24H	Exist Wet Pond	10.2509	24.78

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	10.5002	24.81
SJRWMD 25Y-24H	Exist Wet Pond	10.7502	24.86
SJRWMD 25Y-24H	Exist Wet Pond	11.0007	24.90
SJRWMD 25Y-24H	Exist Wet Pond	11.2500	24.95
SJRWMD 25Y-24H	Exist Wet Pond	11.5007	25.02
SJRWMD 25Y-24H	Exist Wet Pond	11.7505	25.16
SJRWMD 25Y-24H	Exist Wet Pond	12.0003	25.49
SJRWMD 25Y-24H	Exist Wet Pond	12.2505	25.91
SJRWMD 25Y-24H	Exist Wet Pond	12.5008	26.19
SJRWMD 25Y-24H	Exist Wet Pond	12.7503	26.34
SJRWMD 25Y-24H	Exist Wet Pond	13.0008	26.41
SJRWMD 25Y-24H	Exist Wet Pond	13.2523	26.44
SJRWMD 25Y-24H	Exist Wet Pond	13.5033	26.45
SJRWMD 25Y-24H	Exist Wet Pond	13.7515	26.45
SJRWMD 25Y-24H	Exist Wet Pond	14.0013	26.45
SJRWMD 25Y-24H	Exist Wet Pond	14.2519	26.44
SJRWMD 25Y-24H	Exist Wet Pond	14.5005	26.44
SJRWMD 25Y-24H	Exist Wet Pond	14.7503	26.43
SJRWMD 25Y-24H	Exist Wet Pond	15.0009	26.42
SJRWMD 25Y-24H	Exist Wet Pond	15.2502	26.41
SJRWMD 25Y-24H	Exist Wet Pond	15.5017	26.40
SJRWMD 25Y-24H	Exist Wet Pond	15.7506	26.39
SJRWMD 25Y-24H	Exist Wet Pond	16.0031	26.38
SJRWMD 25Y-24H	Exist Wet Pond	16.2537	26.37
SJRWMD 25Y-24H	Exist Wet Pond	16.5007	26.36
SJRWMD 25Y-24H	Exist Wet Pond	16.7535	26.35
SJRWMD 25Y-24H	Exist Wet Pond	17.0000	26.34
SJRWMD 25Y-24H	Exist Wet Pond	17.2518	26.33
SJRWMD 25Y-24H	Exist Wet Pond	17.5001	26.31
SJRWMD 25Y-24H	Exist Wet Pond	17.7530	26.30
SJRWMD 25Y-24H	Exist Wet Pond	18.0033	26.29
SJRWMD 25Y-24H	Exist Wet Pond	18.2511	26.28
SJRWMD 25Y-24H	Exist Wet Pond	18.5030	26.27
SJRWMD 25Y-24H	Exist Wet Pond	18.7501	26.25
SJRWMD 25Y-24H	Exist Wet Pond	19.0030	26.24
SJRWMD 25Y-24H	Exist Wet Pond	19.2512	26.23
SJRWMD 25Y-24H	Exist Wet Pond	19.5005	26.21
SJRWMD 25Y-24H	Exist Wet Pond	19.7521	26.20
SJRWMD 25Y-24H	Exist Wet Pond	20.0030	26.19
SJRWMD 25Y-24H	Exist Wet Pond	20.2516	26.18
SJRWMD 25Y-24H	Exist Wet Pond	20.5004	26.16
SJRWMD 25Y-24H	Exist Wet Pond	20.7526	26.15

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	21.0001	26.13
SJRWMD 25Y-24H	Exist Wet Pond	21.2527	26.12
SJRWMD 25Y-24H	Exist Wet Pond	21.5020	26.10
SJRWMD 25Y-24H	Exist Wet Pond	21.7503	26.09
SJRWMD 25Y-24H	Exist Wet Pond	22.0033	26.08
SJRWMD 25Y-24H	Exist Wet Pond	22.2501	26.06
SJRWMD 25Y-24H	Exist Wet Pond	22.5004	26.05
SJRWMD 25Y-24H	Exist Wet Pond	22.7513	26.03
SJRWMD 25Y-24H	Exist Wet Pond	23.0045	26.02
SJRWMD 25Y-24H	Exist Wet Pond	23.2526	26.01
SJRWMD 25Y-24H	Exist Wet Pond	23.5021	25.99
SJRWMD 25Y-24H	Exist Wet Pond	23.7507	25.98
SJRWMD 25Y-24H	Exist Wet Pond	24.0000	25.96
SJRWMD 25Y-24H	Exist Wet Pond	24.2532	25.94
SJRWMD 25Y-24H	Exist Wet Pond	24.5017	25.92
SJRWMD 25Y-24H	Exist Wet Pond	24.7520	25.90
SJRWMD 25Y-24H	Exist Wet Pond	25.0012	25.87
SJRWMD 25Y-24H	Exist Wet Pond	25.2526	25.85
SJRWMD 25Y-24H	Exist Wet Pond	25.5023	25.83
SJRWMD 25Y-24H	Exist Wet Pond	25.7547	25.80
SJRWMD 25Y-24H	Exist Wet Pond	26.0011	25.78
SJRWMD 25Y-24H	Exist Wet Pond	26.2537	25.75
SJRWMD 25Y-24H	Exist Wet Pond	26.5029	25.73
SJRWMD 25Y-24H	Exist Wet Pond	26.7538	25.71
SJRWMD 25Y-24H	Exist Wet Pond	27.0011	25.69
SJRWMD 25Y-24H	Exist Wet Pond	27.2548	25.66
SJRWMD 25Y-24H	Exist Wet Pond	27.5020	25.64
SJRWMD 25Y-24H	Exist Wet Pond	27.7548	25.62
SJRWMD 25Y-24H	Exist Wet Pond	28.0013	25.60
SJRWMD 25Y-24H	Exist Wet Pond	28.2535	25.58
SJRWMD 25Y-24H	Exist Wet Pond	28.5016	25.56
SJRWMD 25Y-24H	Exist Wet Pond	28.7515	25.54
SJRWMD 25Y-24H	Exist Wet Pond	29.0004	25.52
SJRWMD 25Y-24H	Exist Wet Pond	29.2516	25.50
SJRWMD 25Y-24H	Exist Wet Pond	29.5018	25.48
SJRWMD 25Y-24H	Exist Wet Pond	29.7525	25.46
SJRWMD 25Y-24H	Exist Wet Pond	30.0054	25.44
SJRWMD 25Y-24H	Exist Wet Pond	30.2505	25.42
SJRWMD 25Y-24H	Exist Wet Pond	30.5043	25.40
SJRWMD 25Y-24H	Exist Wet Pond	30.7532	25.38
SJRWMD 25Y-24H	Exist Wet Pond	31.0021	25.37
SJRWMD 25Y-24H	Exist Wet Pond	31.2549	25.35

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	31.5025	25.33
SJRWMD 25Y-24H	Exist Wet Pond	31.7502	25.32
SJRWMD 25Y-24H	Exist Wet Pond	32.0021	25.30
SJRWMD 25Y-24H	Exist Wet Pond	32.2504	25.28
SJRWMD 25Y-24H	Exist Wet Pond	32.5001	25.27
SJRWMD 25Y-24H	Exist Wet Pond	32.7563	25.25
SJRWMD 25Y-24H	Exist Wet Pond	33.0003	25.24
SJRWMD 25Y-24H	Exist Wet Pond	33.2512	25.23
SJRWMD 25Y-24H	Exist Wet Pond	33.5013	25.21
SJRWMD 25Y-24H	Exist Wet Pond	33.7507	25.20
SJRWMD 25Y-24H	Exist Wet Pond	34.0019	25.19
SJRWMD 25Y-24H	Exist Wet Pond	34.2502	25.17
SJRWMD 25Y-24H	Exist Wet Pond	34.5015	25.16
SJRWMD 25Y-24H	Exist Wet Pond	34.7524	25.15
SJRWMD 25Y-24H	Exist Wet Pond	35.0036	25.14
SJRWMD 25Y-24H	Exist Wet Pond	35.2512	25.13
SJRWMD 25Y-24H	Exist Wet Pond	35.5029	25.11
SJRWMD 25Y-24H	Exist Wet Pond	35.7535	25.10
SJRWMD 25Y-24H	Exist Wet Pond	36.0007	25.09
SJRWMD 25Y-24H	Exist Wet Pond	36.2520	25.08
SJRWMD 25Y-24H	Exist Wet Pond	36.5013	25.07
SJRWMD 25Y-24H	Exist Wet Pond	36.7539	25.06
SJRWMD 25Y-24H	Exist Wet Pond	37.0021	25.06
SJRWMD 25Y-24H	Exist Wet Pond	37.2508	25.05
SJRWMD 25Y-24H	Exist Wet Pond	37.5027	25.04
SJRWMD 25Y-24H	Exist Wet Pond	37.7520	25.03
SJRWMD 25Y-24H	Exist Wet Pond	38.0030	25.02
SJRWMD 25Y-24H	Exist Wet Pond	38.2514	25.01
SJRWMD 25Y-24H	Exist Wet Pond	38.5004	25.01
SJRWMD 25Y-24H	Exist Wet Pond	38.7508	25.00
SJRWMD 25Y-24H	Exist Wet Pond	39.0016	24.99
SJRWMD 25Y-24H	Exist Wet Pond	39.2518	24.99
SJRWMD 25Y-24H	Exist Wet Pond	39.5010	24.98
SJRWMD 25Y-24H	Exist Wet Pond	39.7535	24.97
SJRWMD 25Y-24H	Exist Wet Pond	40.0005	24.97
SJRWMD 25Y-24H	Exist Wet Pond	40.2502	24.96
SJRWMD 25Y-24H	Exist Wet Pond	40.5028	24.96
SJRWMD 25Y-24H	Exist Wet Pond	40.7505	24.95
SJRWMD 25Y-24H	Exist Wet Pond	41.0023	24.95
SJRWMD 25Y-24H	Exist Wet Pond	41.2500	24.94
SJRWMD 25Y-24H	Exist Wet Pond	41.5020	24.94
SJRWMD 25Y-24H	Exist Wet Pond	41.7535	24.93



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	42.0005	24.93
SJRWMD 25Y-24H	Exist Wet Pond	42.2512	24.93
SJRWMD 25Y-24H	Exist Wet Pond	42.5009	24.92
SJRWMD 25Y-24H	Exist Wet Pond	42.7524	24.92
SJRWMD 25Y-24H	Exist Wet Pond	43.0023	24.91
SJRWMD 25Y-24H	Exist Wet Pond	43.2505	24.91
SJRWMD 25Y-24H	Exist Wet Pond	43.5036	24.91
SJRWMD 25Y-24H	Exist Wet Pond	43.7535	24.90
SJRWMD 25Y-24H	Exist Wet Pond	44.0063	24.90
SJRWMD 25Y-24H	Exist Wet Pond	44.2549	24.90
SJRWMD 25Y-24H	Exist Wet Pond	44.5009	24.89
SJRWMD 25Y-24H	Exist Wet Pond	44.7519	24.89
SJRWMD 25Y-24H	Exist Wet Pond	45.0010	24.89
SJRWMD 25Y-24H	Exist Wet Pond	45.2513	24.89
SJRWMD 25Y-24H	Exist Wet Pond	45.5000	24.88
SJRWMD 25Y-24H	Exist Wet Pond	45.7505	24.88
SJRWMD 25Y-24H	Exist Wet Pond	46.0017	24.88
SJRWMD 25Y-24H	Exist Wet Pond	46.2524	24.88
SJRWMD 25Y-24H	Exist Wet Pond	46.5016	24.87
SJRWMD 25Y-24H	Exist Wet Pond	46.7545	24.87
SJRWMD 25Y-24H	Exist Wet Pond	47.0004	24.87
SJRWMD 25Y-24H	Exist Wet Pond	47.2538	24.87
SJRWMD 25Y-24H	Exist Wet Pond	47.5002	24.87
SJRWMD 25Y-24H	Exist Wet Pond	47.7505	24.86
SJRWMD 25Y-24H	Exist Wet Pond	48.0029	24.86
SJRWMD 25Y-24H	Pond 2.1	0.0000	23.74
SJRWMD 25Y-24H	Pond 2.1	0.2511	23.74
SJRWMD 25Y-24H	Pond 2.1	0.5050	23.74
SJRWMD 25Y-24H	Pond 2.1	0.7527	23.74
SJRWMD 25Y-24H	Pond 2.1	1.0027	23.74
SJRWMD 25Y-24H	Pond 2.1	1.2527	23.74
SJRWMD 25Y-24H	Pond 2.1	1.5027	23.74
SJRWMD 25Y-24H	Pond 2.1	1.7527	23.74
SJRWMD 25Y-24H	Pond 2.1	2.0027	23.74
SJRWMD 25Y-24H	Pond 2.1	2.2527	23.74
SJRWMD 25Y-24H	Pond 2.1	2.5027	23.75
SJRWMD 25Y-24H	Pond 2.1	2.7512	23.75
SJRWMD 25Y-24H	Pond 2.1	3.0001	23.75
SJRWMD 25Y-24H	Pond 2.1	3.2502	23.75
SJRWMD 25Y-24H	Pond 2.1	3.5004	23.76
SJRWMD 25Y-24H	Pond 2.1	3.7513	23.76
SJRWMD 25Y-24H	Pond 2.1	4.0000	23.77

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.1	4.2519	23.77
SJRWMD 25Y-24H	Pond 2.1	4.5035	23.78
SJRWMD 25Y-24H	Pond 2.1	4.7520	23.79
SJRWMD 25Y-24H	Pond 2.1	5.0019	23.80
SJRWMD 25Y-24H	Pond 2.1	5.2528	23.80
SJRWMD 25Y-24H	Pond 2.1	5.5021	23.81
SJRWMD 25Y-24H	Pond 2.1	5.7525	23.82
SJRWMD 25Y-24H	Pond 2.1	6.0007	23.83
SJRWMD 25Y-24H	Pond 2.1	6.2526	23.84
SJRWMD 25Y-24H	Pond 2.1	6.5029	23.85
SJRWMD 25Y-24H	Pond 2.1	6.7520	23.86
SJRWMD 25Y-24H	Pond 2.1	7.0008	23.88
SJRWMD 25Y-24H	Pond 2.1	7.2517	23.89
SJRWMD 25Y-24H	Pond 2.1	7.5001	23.90
SJRWMD 25Y-24H	Pond 2.1	7.7525	23.92
SJRWMD 25Y-24H	Pond 2.1	8.0013	23.93
SJRWMD 25Y-24H	Pond 2.1	8.2503	23.95
SJRWMD 25Y-24H	Pond 2.1	8.5008	23.97
SJRWMD 25Y-24H	Pond 2.1	8.7509	23.99
SJRWMD 25Y-24H	Pond 2.1	9.0006	24.01
SJRWMD 25Y-24H	Pond 2.1	9.2509	24.03
SJRWMD 25Y-24H	Pond 2.1	9.5005	24.05
SJRWMD 25Y-24H	Pond 2.1	9.7505	24.07
SJRWMD 25Y-24H	Pond 2.1	10.0016	24.10
SJRWMD 25Y-24H	Pond 2.1	10.2509	24.13
SJRWMD 25Y-24H	Pond 2.1	10.5002	24.16
SJRWMD 25Y-24H	Pond 2.1	10.7502	24.20
SJRWMD 25Y-24H	Pond 2.1	11.0007	24.25
SJRWMD 25Y-24H	Pond 2.1	11.2500	24.30
SJRWMD 25Y-24H	Pond 2.1	11.5007	24.37
SJRWMD 25Y-24H	Pond 2.1	11.7505	24.55
SJRWMD 25Y-24H	Pond 2.1	12.0003	24.96
SJRWMD 25Y-24H	Pond 2.1	12.2505	25.44
SJRWMD 25Y-24H	Pond 2.1	12.5008	25.73
SJRWMD 25Y-24H	Pond 2.1	12.7503	25.87
SJRWMD 25Y-24H	Pond 2.1	13.0008	25.93
SJRWMD 25Y-24H	Pond 2.1	13.2523	25.97
SJRWMD 25Y-24H	Pond 2.1	13.5033	26.00
SJRWMD 25Y-24H	Pond 2.1	13.7515	26.02
SJRWMD 25Y-24H	Pond 2.1	14.0013	26.05
SJRWMD 25Y-24H	Pond 2.1	14.2519	26.06
SJRWMD 25Y-24H	Pond 2.1	14.5005	26.08

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.1	14.7503	26.09
SJRWMD 25Y-24H	Pond 2.1	15.0009	26.10
SJRWMD 25Y-24H	Pond 2.1	15.2502	26.11
SJRWMD 25Y-24H	Pond 2.1	15.5017	26.11
SJRWMD 25Y-24H	Pond 2.1	15.7506	26.11
SJRWMD 25Y-24H	Pond 2.1	16.0031	26.11
SJRWMD 25Y-24H	Pond 2.1	16.2537	26.11
SJRWMD 25Y-24H	Pond 2.1	16.5007	26.11
SJRWMD 25Y-24H	Pond 2.1	16.7535	26.10
SJRWMD 25Y-24H	Pond 2.1	17.0000	26.10
SJRWMD 25Y-24H	Pond 2.1	17.2518	26.09
SJRWMD 25Y-24H	Pond 2.1	17.5001	26.09
SJRWMD 25Y-24H	Pond 2.1	17.7530	26.08
SJRWMD 25Y-24H	Pond 2.1	18.0033	26.07
SJRWMD 25Y-24H	Pond 2.1	18.2511	26.06
SJRWMD 25Y-24H	Pond 2.1	18.5030	26.05
SJRWMD 25Y-24H	Pond 2.1	18.7501	26.04
SJRWMD 25Y-24H	Pond 2.1	19.0030	26.03
SJRWMD 25Y-24H	Pond 2.1	19.2512	26.02
SJRWMD 25Y-24H	Pond 2.1	19.5005	26.01
SJRWMD 25Y-24H	Pond 2.1	19.7521	26.00
SJRWMD 25Y-24H	Pond 2.1	20.0030	25.99
SJRWMD 25Y-24H	Pond 2.1	20.2516	25.98
SJRWMD 25Y-24H	Pond 2.1	20.5004	25.97
SJRWMD 25Y-24H	Pond 2.1	20.7526	25.95
SJRWMD 25Y-24H	Pond 2.1	21.0001	25.94
SJRWMD 25Y-24H	Pond 2.1	21.2527	25.93
SJRWMD 25Y-24H	Pond 2.1	21.5020	25.91
SJRWMD 25Y-24H	Pond 2.1	21.7503	25.90
SJRWMD 25Y-24H	Pond 2.1	22.0033	25.89
SJRWMD 25Y-24H	Pond 2.1	22.2501	25.88
SJRWMD 25Y-24H	Pond 2.1	22.5004	25.86
SJRWMD 25Y-24H	Pond 2.1	22.7513	25.85
SJRWMD 25Y-24H	Pond 2.1	23.0045	25.84
SJRWMD 25Y-24H	Pond 2.1	23.2526	25.82
SJRWMD 25Y-24H	Pond 2.1	23.5021	25.81
SJRWMD 25Y-24H	Pond 2.1	23.7507	25.80
SJRWMD 25Y-24H	Pond 2.1	24.0000	25.78
SJRWMD 25Y-24H	Pond 2.1	24.2532	25.76
SJRWMD 25Y-24H	Pond 2.1	24.5017	25.74
SJRWMD 25Y-24H	Pond 2.1	24.7520	25.72
SJRWMD 25Y-24H	Pond 2.1	25.0012	25.70

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.1	25.2526	25.68
SJRWMD 25Y-24H	Pond 2.1	25.5023	25.65
SJRWMD 25Y-24H	Pond 2.1	25.7547	25.63
SJRWMD 25Y-24H	Pond 2.1	26.0011	25.61
SJRWMD 25Y-24H	Pond 2.1	26.2537	25.59
SJRWMD 25Y-24H	Pond 2.1	26.5029	25.57
SJRWMD 25Y-24H	Pond 2.1	26.7538	25.55
SJRWMD 25Y-24H	Pond 2.1	27.0011	25.53
SJRWMD 25Y-24H	Pond 2.1	27.2548	25.50
SJRWMD 25Y-24H	Pond 2.1	27.5020	25.48
SJRWMD 25Y-24H	Pond 2.1	27.7548	25.46
SJRWMD 25Y-24H	Pond 2.1	28.0013	25.44
SJRWMD 25Y-24H	Pond 2.1	28.2535	25.42
SJRWMD 25Y-24H	Pond 2.1	28.5016	25.40
SJRWMD 25Y-24H	Pond 2.1	28.7515	25.38
SJRWMD 25Y-24H	Pond 2.1	29.0004	25.37
SJRWMD 25Y-24H	Pond 2.1	29.2516	25.35
SJRWMD 25Y-24H	Pond 2.1	29.5018	25.33
SJRWMD 25Y-24H	Pond 2.1	29.7525	25.31
SJRWMD 25Y-24H	Pond 2.1	30.0054	25.29
SJRWMD 25Y-24H	Pond 2.1	30.2505	25.28
SJRWMD 25Y-24H	Pond 2.1	30.5043	25.26
SJRWMD 25Y-24H	Pond 2.1	30.7532	25.24
SJRWMD 25Y-24H	Pond 2.1	31.0021	25.23
SJRWMD 25Y-24H	Pond 2.1	31.2549	25.21
SJRWMD 25Y-24H	Pond 2.1	31.5025	25.19
SJRWMD 25Y-24H	Pond 2.1	31.7502	25.18
SJRWMD 25Y-24H	Pond 2.1	32.0021	25.16
SJRWMD 25Y-24H	Pond 2.1	32.2504	25.15
SJRWMD 25Y-24H	Pond 2.1	32.5001	25.13
SJRWMD 25Y-24H	Pond 2.1	32.7563	25.12
SJRWMD 25Y-24H	Pond 2.1	33.0003	25.10
SJRWMD 25Y-24H	Pond 2.1	33.2512	25.09
SJRWMD 25Y-24H	Pond 2.1	33.5013	25.07
SJRWMD 25Y-24H	Pond 2.1	33.7507	25.06
SJRWMD 25Y-24H	Pond 2.1	34.0019	25.05
SJRWMD 25Y-24H	Pond 2.1	34.2502	25.03
SJRWMD 25Y-24H	Pond 2.1	34.5015	25.02
SJRWMD 25Y-24H	Pond 2.1	34.7524	25.01
SJRWMD 25Y-24H	Pond 2.1	35.0036	24.99
SJRWMD 25Y-24H	Pond 2.1	35.2512	24.98
SJRWMD 25Y-24H	Pond 2.1	35.5029	24.97

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.1	35.7535	24.96
SJRWMD 25Y-24H	Pond 2.1	36.0007	24.94
SJRWMD 25Y-24H	Pond 2.1	36.2520	24.93
SJRWMD 25Y-24H	Pond 2.1	36.5013	24.92
SJRWMD 25Y-24H	Pond 2.1	36.7539	24.91
SJRWMD 25Y-24H	Pond 2.1	37.0021	24.89
SJRWMD 25Y-24H	Pond 2.1	37.2508	24.88
SJRWMD 25Y-24H	Pond 2.1	37.5027	24.87
SJRWMD 25Y-24H	Pond 2.1	37.7520	24.86
SJRWMD 25Y-24H	Pond 2.1	38.0030	24.85
SJRWMD 25Y-24H	Pond 2.1	38.2514	24.84
SJRWMD 25Y-24H	Pond 2.1	38.5004	24.83
SJRWMD 25Y-24H	Pond 2.1	38.7508	24.82
SJRWMD 25Y-24H	Pond 2.1	39.0016	24.81
SJRWMD 25Y-24H	Pond 2.1	39.2518	24.80
SJRWMD 25Y-24H	Pond 2.1	39.5010	24.79
SJRWMD 25Y-24H	Pond 2.1	39.7535	24.78
SJRWMD 25Y-24H	Pond 2.1	40.0005	24.77
SJRWMD 25Y-24H	Pond 2.1	40.2502	24.76
SJRWMD 25Y-24H	Pond 2.1	40.5028	24.75
SJRWMD 25Y-24H	Pond 2.1	40.7505	24.74
SJRWMD 25Y-24H	Pond 2.1	41.0023	24.73
SJRWMD 25Y-24H	Pond 2.1	41.2500	24.72
SJRWMD 25Y-24H	Pond 2.1	41.5020	24.71
SJRWMD 25Y-24H	Pond 2.1	41.7535	24.70
SJRWMD 25Y-24H	Pond 2.1	42.0005	24.69
SJRWMD 25Y-24H	Pond 2.1	42.2512	24.68
SJRWMD 25Y-24H	Pond 2.1	42.5009	24.67
SJRWMD 25Y-24H	Pond 2.1	42.7524	24.66
SJRWMD 25Y-24H	Pond 2.1	43.0023	24.65
SJRWMD 25Y-24H	Pond 2.1	43.2505	24.65
SJRWMD 25Y-24H	Pond 2.1	43.5036	24.64
SJRWMD 25Y-24H	Pond 2.1	43.7535	24.63
SJRWMD 25Y-24H	Pond 2.1	44.0063	24.62
SJRWMD 25Y-24H	Pond 2.1	44.2549	24.61
SJRWMD 25Y-24H	Pond 2.1	44.5009	24.61
SJRWMD 25Y-24H	Pond 2.1	44.7519	24.60
SJRWMD 25Y-24H	Pond 2.1	45.0010	24.59
SJRWMD 25Y-24H	Pond 2.1	45.2513	24.58
SJRWMD 25Y-24H	Pond 2.1	45.5000	24.58
SJRWMD 25Y-24H	Pond 2.1	45.7505	24.57
SJRWMD 25Y-24H	Pond 2.1	46.0017	24.56

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.1	46.2524	24.56
SJRWMD 25Y-24H	Pond 2.1	46.5016	24.55
SJRWMD 25Y-24H	Pond 2.1	46.7545	24.54
SJRWMD 25Y-24H	Pond 2.1	47.0004	24.54
SJRWMD 25Y-24H	Pond 2.1	47.2538	24.53
SJRWMD 25Y-24H	Pond 2.1	47.5002	24.53
SJRWMD 25Y-24H	Pond 2.1	47.7505	24.52
SJRWMD 25Y-24H	Pond 2.1	48.0029	24.51
SJRWMD 25Y-24H	Pond 2.2	0.0000	23.74
SJRWMD 25Y-24H	Pond 2.2	0.2511	23.74
SJRWMD 25Y-24H	Pond 2.2	0.5050	23.74
SJRWMD 25Y-24H	Pond 2.2	0.7527	23.74
SJRWMD 25Y-24H	Pond 2.2	1.0027	23.74
SJRWMD 25Y-24H	Pond 2.2	1.2527	23.74
SJRWMD 25Y-24H	Pond 2.2	1.5027	23.74
SJRWMD 25Y-24H	Pond 2.2	1.7527	23.74
SJRWMD 25Y-24H	Pond 2.2	2.0027	23.74
SJRWMD 25Y-24H	Pond 2.2	2.2527	23.74
SJRWMD 25Y-24H	Pond 2.2	2.5027	23.74
SJRWMD 25Y-24H	Pond 2.2	2.7512	23.75
SJRWMD 25Y-24H	Pond 2.2	3.0001	23.75
SJRWMD 25Y-24H	Pond 2.2	3.2502	23.75
SJRWMD 25Y-24H	Pond 2.2	3.5004	23.76
SJRWMD 25Y-24H	Pond 2.2	3.7513	23.76
SJRWMD 25Y-24H	Pond 2.2	4.0000	23.77
SJRWMD 25Y-24H	Pond 2.2	4.2519	23.77
SJRWMD 25Y-24H	Pond 2.2	4.5035	23.78
SJRWMD 25Y-24H	Pond 2.2	4.7520	23.79
SJRWMD 25Y-24H	Pond 2.2	5.0019	23.79
SJRWMD 25Y-24H	Pond 2.2	5.2528	23.80
SJRWMD 25Y-24H	Pond 2.2	5.5021	23.81
SJRWMD 25Y-24H	Pond 2.2	5.7525	23.82
SJRWMD 25Y-24H	Pond 2.2	6.0007	23.83
SJRWMD 25Y-24H	Pond 2.2	6.2526	23.84
SJRWMD 25Y-24H	Pond 2.2	6.5029	23.85
SJRWMD 25Y-24H	Pond 2.2	6.7520	23.86
SJRWMD 25Y-24H	Pond 2.2	7.0008	23.87
SJRWMD 25Y-24H	Pond 2.2	7.2517	23.89
SJRWMD 25Y-24H	Pond 2.2	7.5001	23.90
SJRWMD 25Y-24H	Pond 2.2	7.7525	23.92
SJRWMD 25Y-24H	Pond 2.2	8.0013	23.93
SJRWMD 25Y-24H	Pond 2.2	8.2503	23.95

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.2	8.5008	23.96
SJRWMD 25Y-24H	Pond 2.2	8.7509	23.98
SJRWMD 25Y-24H	Pond 2.2	9.0006	24.00
SJRWMD 25Y-24H	Pond 2.2	9.2509	24.02
SJRWMD 25Y-24H	Pond 2.2	9.5005	24.05
SJRWMD 25Y-24H	Pond 2.2	9.7505	24.07
SJRWMD 25Y-24H	Pond 2.2	10.0016	24.10
SJRWMD 25Y-24H	Pond 2.2	10.2509	24.13
SJRWMD 25Y-24H	Pond 2.2	10.5002	24.16
SJRWMD 25Y-24H	Pond 2.2	10.7502	24.20
SJRWMD 25Y-24H	Pond 2.2	11.0007	24.24
SJRWMD 25Y-24H	Pond 2.2	11.2500	24.29
SJRWMD 25Y-24H	Pond 2.2	11.5007	24.34
SJRWMD 25Y-24H	Pond 2.2	11.7505	24.44
SJRWMD 25Y-24H	Pond 2.2	12.0003	24.63
SJRWMD 25Y-24H	Pond 2.2	12.2505	24.89
SJRWMD 25Y-24H	Pond 2.2	12.5008	25.15
SJRWMD 25Y-24H	Pond 2.2	12.7503	25.35
SJRWMD 25Y-24H	Pond 2.2	13.0008	25.49
SJRWMD 25Y-24H	Pond 2.2	13.2523	25.60
SJRWMD 25Y-24H	Pond 2.2	13.5033	25.68
SJRWMD 25Y-24H	Pond 2.2	13.7515	25.73
SJRWMD 25Y-24H	Pond 2.2	14.0013	25.78
SJRWMD 25Y-24H	Pond 2.2	14.2519	25.81
SJRWMD 25Y-24H	Pond 2.2	14.5005	25.83
SJRWMD 25Y-24H	Pond 2.2	14.7503	25.85
SJRWMD 25Y-24H	Pond 2.2	15.0009	25.86
SJRWMD 25Y-24H	Pond 2.2	15.2502	25.88
SJRWMD 25Y-24H	Pond 2.2	15.5017	25.88
SJRWMD 25Y-24H	Pond 2.2	15.7506	25.89
SJRWMD 25Y-24H	Pond 2.2	16.0031	25.89
SJRWMD 25Y-24H	Pond 2.2	16.2537	25.90
SJRWMD 25Y-24H	Pond 2.2	16.5007	25.90
SJRWMD 25Y-24H	Pond 2.2	16.7535	25.89
SJRWMD 25Y-24H	Pond 2.2	17.0000	25.89
SJRWMD 25Y-24H	Pond 2.2	17.2518	25.89
SJRWMD 25Y-24H	Pond 2.2	17.5001	25.88
SJRWMD 25Y-24H	Pond 2.2	17.7530	25.88
SJRWMD 25Y-24H	Pond 2.2	18.0033	25.87
SJRWMD 25Y-24H	Pond 2.2	18.2511	25.87
SJRWMD 25Y-24H	Pond 2.2	18.5030	25.86
SJRWMD 25Y-24H	Pond 2.2	18.7501	25.85

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.2	19.0030	25.84
SJRWMD 25Y-24H	Pond 2.2	19.2512	25.83
SJRWMD 25Y-24H	Pond 2.2	19.5005	25.83
SJRWMD 25Y-24H	Pond 2.2	19.7521	25.82
SJRWMD 25Y-24H	Pond 2.2	20.0030	25.81
SJRWMD 25Y-24H	Pond 2.2	20.2516	25.80
SJRWMD 25Y-24H	Pond 2.2	20.5004	25.79
SJRWMD 25Y-24H	Pond 2.2	20.7526	25.78
SJRWMD 25Y-24H	Pond 2.2	21.0001	25.77
SJRWMD 25Y-24H	Pond 2.2	21.2527	25.76
SJRWMD 25Y-24H	Pond 2.2	21.5020	25.74
SJRWMD 25Y-24H	Pond 2.2	21.7503	25.73
SJRWMD 25Y-24H	Pond 2.2	22.0033	25.72
SJRWMD 25Y-24H	Pond 2.2	22.2501	25.71
SJRWMD 25Y-24H	Pond 2.2	22.5004	25.70
SJRWMD 25Y-24H	Pond 2.2	22.7513	25.69
SJRWMD 25Y-24H	Pond 2.2	23.0045	25.68
SJRWMD 25Y-24H	Pond 2.2	23.2526	25.67
SJRWMD 25Y-24H	Pond 2.2	23.5021	25.65
SJRWMD 25Y-24H	Pond 2.2	23.7507	25.64
SJRWMD 25Y-24H	Pond 2.2	24.0000	25.63
SJRWMD 25Y-24H	Pond 2.2	24.2532	25.62
SJRWMD 25Y-24H	Pond 2.2	24.5017	25.60
SJRWMD 25Y-24H	Pond 2.2	24.7520	25.58
SJRWMD 25Y-24H	Pond 2.2	25.0012	25.57
SJRWMD 25Y-24H	Pond 2.2	25.2526	25.55
SJRWMD 25Y-24H	Pond 2.2	25.5023	25.53
SJRWMD 25Y-24H	Pond 2.2	25.7547	25.51
SJRWMD 25Y-24H	Pond 2.2	26.0011	25.49
SJRWMD 25Y-24H	Pond 2.2	26.2537	25.47
SJRWMD 25Y-24H	Pond 2.2	26.5029	25.45
SJRWMD 25Y-24H	Pond 2.2	26.7538	25.43
SJRWMD 25Y-24H	Pond 2.2	27.0011	25.42
SJRWMD 25Y-24H	Pond 2.2	27.2548	25.40
SJRWMD 25Y-24H	Pond 2.2	27.5020	25.38
SJRWMD 25Y-24H	Pond 2.2	27.7548	25.36
SJRWMD 25Y-24H	Pond 2.2	28.0013	25.34
SJRWMD 25Y-24H	Pond 2.2	28.2535	25.33
SJRWMD 25Y-24H	Pond 2.2	28.5016	25.31
SJRWMD 25Y-24H	Pond 2.2	28.7515	25.29
SJRWMD 25Y-24H	Pond 2.2	29.0004	25.28
SJRWMD 25Y-24H	Pond 2.2	29.2516	25.26



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.2	29.5018	25.25
SJRWMD 25Y-24H	Pond 2.2	29.7525	25.23
SJRWMD 25Y-24H	Pond 2.2	30.0054	25.22
SJRWMD 25Y-24H	Pond 2.2	30.2505	25.20
SJRWMD 25Y-24H	Pond 2.2	30.5043	25.19
SJRWMD 25Y-24H	Pond 2.2	30.7532	25.17
SJRWMD 25Y-24H	Pond 2.2	31.0021	25.16
SJRWMD 25Y-24H	Pond 2.2	31.2549	25.15
SJRWMD 25Y-24H	Pond 2.2	31.5025	25.13
SJRWMD 25Y-24H	Pond 2.2	31.7502	25.12
SJRWMD 25Y-24H	Pond 2.2	32.0021	25.11
SJRWMD 25Y-24H	Pond 2.2	32.2504	25.09
SJRWMD 25Y-24H	Pond 2.2	32.5001	25.08
SJRWMD 25Y-24H	Pond 2.2	32.7563	25.07
SJRWMD 25Y-24H	Pond 2.2	33.0003	25.06
SJRWMD 25Y-24H	Pond 2.2	33.2512	25.04
SJRWMD 25Y-24H	Pond 2.2	33.5013	25.03
SJRWMD 25Y-24H	Pond 2.2	33.7507	25.02
SJRWMD 25Y-24H	Pond 2.2	34.0019	25.01
SJRWMD 25Y-24H	Pond 2.2	34.2502	25.00
SJRWMD 25Y-24H	Pond 2.2	34.5015	24.98
SJRWMD 25Y-24H	Pond 2.2	34.7524	24.97
SJRWMD 25Y-24H	Pond 2.2	35.0036	24.96
SJRWMD 25Y-24H	Pond 2.2	35.2512	24.95
SJRWMD 25Y-24H	Pond 2.2	35.5029	24.94
SJRWMD 25Y-24H	Pond 2.2	35.7535	24.93
SJRWMD 25Y-24H	Pond 2.2	36.0007	24.92
SJRWMD 25Y-24H	Pond 2.2	36.2520	24.90
SJRWMD 25Y-24H	Pond 2.2	36.5013	24.89
SJRWMD 25Y-24H	Pond 2.2	36.7539	24.88
SJRWMD 25Y-24H	Pond 2.2	37.0021	24.87
SJRWMD 25Y-24H	Pond 2.2	37.2508	24.86
SJRWMD 25Y-24H	Pond 2.2	37.5027	24.85
SJRWMD 25Y-24H	Pond 2.2	37.7520	24.84
SJRWMD 25Y-24H	Pond 2.2	38.0030	24.83
SJRWMD 25Y-24H	Pond 2.2	38.2514	24.82
SJRWMD 25Y-24H	Pond 2.2	38.5004	24.81
SJRWMD 25Y-24H	Pond 2.2	38.7508	24.80
SJRWMD 25Y-24H	Pond 2.2	39.0016	24.79
SJRWMD 25Y-24H	Pond 2.2	39.2518	24.78
SJRWMD 25Y-24H	Pond 2.2	39.5010	24.77
SJRWMD 25Y-24H	Pond 2.2	39.7535	24.76

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.2	40.0005	24.75
SJRWMD 25Y-24H	Pond 2.2	40.2502	24.74
SJRWMD 25Y-24H	Pond 2.2	40.5028	24.73
SJRWMD 25Y-24H	Pond 2.2	40.7505	24.72
SJRWMD 25Y-24H	Pond 2.2	41.0023	24.72
SJRWMD 25Y-24H	Pond 2.2	41.2500	24.71
SJRWMD 25Y-24H	Pond 2.2	41.5020	24.70
SJRWMD 25Y-24H	Pond 2.2	41.7535	24.69
SJRWMD 25Y-24H	Pond 2.2	42.0005	24.68
SJRWMD 25Y-24H	Pond 2.2	42.2512	24.67
SJRWMD 25Y-24H	Pond 2.2	42.5009	24.66
SJRWMD 25Y-24H	Pond 2.2	42.7524	24.65
SJRWMD 25Y-24H	Pond 2.2	43.0023	24.65
SJRWMD 25Y-24H	Pond 2.2	43.2505	24.64
SJRWMD 25Y-24H	Pond 2.2	43.5036	24.63
SJRWMD 25Y-24H	Pond 2.2	43.7535	24.62
SJRWMD 25Y-24H	Pond 2.2	44.0063	24.62
SJRWMD 25Y-24H	Pond 2.2	44.2549	24.61
SJRWMD 25Y-24H	Pond 2.2	44.5009	24.60
SJRWMD 25Y-24H	Pond 2.2	44.7519	24.59
SJRWMD 25Y-24H	Pond 2.2	45.0010	24.59
SJRWMD 25Y-24H	Pond 2.2	45.2513	24.58
SJRWMD 25Y-24H	Pond 2.2	45.5000	24.57
SJRWMD 25Y-24H	Pond 2.2	45.7505	24.57
SJRWMD 25Y-24H	Pond 2.2	46.0017	24.56
SJRWMD 25Y-24H	Pond 2.2	46.2524	24.55
SJRWMD 25Y-24H	Pond 2.2	46.5016	24.55
SJRWMD 25Y-24H	Pond 2.2	46.7545	24.54
SJRWMD 25Y-24H	Pond 2.2	47.0004	24.53
SJRWMD 25Y-24H	Pond 2.2	47.2538	24.53
SJRWMD 25Y-24H	Pond 2.2	47.5002	24.52
SJRWMD 25Y-24H	Pond 2.2	47.7505	24.52
SJRWMD 25Y-24H	Pond 2.2	48.0029	24.51
SJRWMD 25Y-24H	Pond 2.3	0.0000	24.29
SJRWMD 25Y-24H	Pond 2.3	0.2511	24.29
SJRWMD 25Y-24H	Pond 2.3	0.5050	24.29
SJRWMD 25Y-24H	Pond 2.3	0.7527	24.29
SJRWMD 25Y-24H	Pond 2.3	1.0027	24.29
SJRWMD 25Y-24H	Pond 2.3	1.2527	24.29
SJRWMD 25Y-24H	Pond 2.3	1.5027	24.29
SJRWMD 25Y-24H	Pond 2.3	1.7527	24.29
SJRWMD 25Y-24H	Pond 2.3	2.0027	24.29

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.3	2.2527	24.29
SJRWMD 25Y-24H	Pond 2.3	2.5027	24.29
SJRWMD 25Y-24H	Pond 2.3	2.7512	24.30
SJRWMD 25Y-24H	Pond 2.3	3.0001	24.30
SJRWMD 25Y-24H	Pond 2.3	3.2502	24.30
SJRWMD 25Y-24H	Pond 2.3	3.5004	24.31
SJRWMD 25Y-24H	Pond 2.3	3.7513	24.31
SJRWMD 25Y-24H	Pond 2.3	4.0000	24.32
SJRWMD 25Y-24H	Pond 2.3	4.2519	24.32
SJRWMD 25Y-24H	Pond 2.3	4.5035	24.33
SJRWMD 25Y-24H	Pond 2.3	4.7520	24.34
SJRWMD 25Y-24H	Pond 2.3	5.0019	24.35
SJRWMD 25Y-24H	Pond 2.3	5.2528	24.35
SJRWMD 25Y-24H	Pond 2.3	5.5021	24.36
SJRWMD 25Y-24H	Pond 2.3	5.7525	24.37
SJRWMD 25Y-24H	Pond 2.3	6.0007	24.38
SJRWMD 25Y-24H	Pond 2.3	6.2526	24.39
SJRWMD 25Y-24H	Pond 2.3	6.5029	24.40
SJRWMD 25Y-24H	Pond 2.3	6.7520	24.42
SJRWMD 25Y-24H	Pond 2.3	7.0008	24.43
SJRWMD 25Y-24H	Pond 2.3	7.2517	24.44
SJRWMD 25Y-24H	Pond 2.3	7.5001	24.46
SJRWMD 25Y-24H	Pond 2.3	7.7525	24.47
SJRWMD 25Y-24H	Pond 2.3	8.0013	24.49
SJRWMD 25Y-24H	Pond 2.3	8.2503	24.50
SJRWMD 25Y-24H	Pond 2.3	8.5008	24.52
SJRWMD 25Y-24H	Pond 2.3	8.7509	24.54
SJRWMD 25Y-24H	Pond 2.3	9.0006	24.56
SJRWMD 25Y-24H	Pond 2.3	9.2509	24.58
SJRWMD 25Y-24H	Pond 2.3	9.5005	24.61
SJRWMD 25Y-24H	Pond 2.3	9.7505	24.63
SJRWMD 25Y-24H	Pond 2.3	10.0016	24.66
SJRWMD 25Y-24H	Pond 2.3	10.2509	24.69
SJRWMD 25Y-24H	Pond 2.3	10.5002	24.73
SJRWMD 25Y-24H	Pond 2.3	10.7502	24.77
SJRWMD 25Y-24H	Pond 2.3	11.0007	24.81
SJRWMD 25Y-24H	Pond 2.3	11.2500	24.86
SJRWMD 25Y-24H	Pond 2.3	11.5007	24.93
SJRWMD 25Y-24H	Pond 2.3	11.7505	25.13
SJRWMD 25Y-24H	Pond 2.3	12.0003	25.59
SJRWMD 25Y-24H	Pond 2.3	12.2505	26.06
SJRWMD 25Y-24H	Pond 2.3	12.5008	26.24

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.3	12.7503	26.28
SJRWMD 25Y-24H	Pond 2.3	13.0008	26.28
SJRWMD 25Y-24H	Pond 2.3	13.2523	26.30
SJRWMD 25Y-24H	Pond 2.3	13.5033	26.32
SJRWMD 25Y-24H	Pond 2.3	13.7515	26.33
SJRWMD 25Y-24H	Pond 2.3	14.0013	26.34
SJRWMD 25Y-24H	Pond 2.3	14.2519	26.35
SJRWMD 25Y-24H	Pond 2.3	14.5005	26.36
SJRWMD 25Y-24H	Pond 2.3	14.7503	26.36
SJRWMD 25Y-24H	Pond 2.3	15.0009	26.36
SJRWMD 25Y-24H	Pond 2.3	15.2502	26.36
SJRWMD 25Y-24H	Pond 2.3	15.5017	26.36
SJRWMD 25Y-24H	Pond 2.3	15.7506	26.36
SJRWMD 25Y-24H	Pond 2.3	16.0031	26.35
SJRWMD 25Y-24H	Pond 2.3	16.2537	26.35
SJRWMD 25Y-24H	Pond 2.3	16.5007	26.34
SJRWMD 25Y-24H	Pond 2.3	16.7535	26.34
SJRWMD 25Y-24H	Pond 2.3	17.0000	26.33
SJRWMD 25Y-24H	Pond 2.3	17.2518	26.33
SJRWMD 25Y-24H	Pond 2.3	17.5001	26.32
SJRWMD 25Y-24H	Pond 2.3	17.7530	26.31
SJRWMD 25Y-24H	Pond 2.3	18.0033	26.31
SJRWMD 25Y-24H	Pond 2.3	18.2511	26.30
SJRWMD 25Y-24H	Pond 2.3	18.5030	26.29
SJRWMD 25Y-24H	Pond 2.3	18.7501	26.28
SJRWMD 25Y-24H	Pond 2.3	19.0030	26.28
SJRWMD 25Y-24H	Pond 2.3	19.2512	26.27
SJRWMD 25Y-24H	Pond 2.3	19.5005	26.26
SJRWMD 25Y-24H	Pond 2.3	19.7521	26.25
SJRWMD 25Y-24H	Pond 2.3	20.0030	26.24
SJRWMD 25Y-24H	Pond 2.3	20.2516	26.23
SJRWMD 25Y-24H	Pond 2.3	20.5004	26.23
SJRWMD 25Y-24H	Pond 2.3	20.7526	26.22
SJRWMD 25Y-24H	Pond 2.3	21.0001	26.21
SJRWMD 25Y-24H	Pond 2.3	21.2527	26.20
SJRWMD 25Y-24H	Pond 2.3	21.5020	26.19
SJRWMD 25Y-24H	Pond 2.3	21.7503	26.18
SJRWMD 25Y-24H	Pond 2.3	22.0033	26.17
SJRWMD 25Y-24H	Pond 2.3	22.2501	26.16
SJRWMD 25Y-24H	Pond 2.3	22.5004	26.15
SJRWMD 25Y-24H	Pond 2.3	22.7513	26.15
SJRWMD 25Y-24H	Pond 2.3	23.0045	26.14

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.3	23.2526	26.13
SJRWMD 25Y-24H	Pond 2.3	23.5021	26.12
SJRWMD 25Y-24H	Pond 2.3	23.7507	26.11
SJRWMD 25Y-24H	Pond 2.3	24.0000	26.10
SJRWMD 25Y-24H	Pond 2.3	24.2532	26.08
SJRWMD 25Y-24H	Pond 2.3	24.5017	26.07
SJRWMD 25Y-24H	Pond 2.3	24.7520	26.05
SJRWMD 25Y-24H	Pond 2.3	25.0012	26.03
SJRWMD 25Y-24H	Pond 2.3	25.2526	26.02
SJRWMD 25Y-24H	Pond 2.3	25.5023	26.00
SJRWMD 25Y-24H	Pond 2.3	25.7547	25.99
SJRWMD 25Y-24H	Pond 2.3	26.0011	25.97
SJRWMD 25Y-24H	Pond 2.3	26.2537	25.95
SJRWMD 25Y-24H	Pond 2.3	26.5029	25.94
SJRWMD 25Y-24H	Pond 2.3	26.7538	25.92
SJRWMD 25Y-24H	Pond 2.3	27.0011	25.91
SJRWMD 25Y-24H	Pond 2.3	27.2548	25.90
SJRWMD 25Y-24H	Pond 2.3	27.5020	25.88
SJRWMD 25Y-24H	Pond 2.3	27.7548	25.87
SJRWMD 25Y-24H	Pond 2.3	28.0013	25.85
SJRWMD 25Y-24H	Pond 2.3	28.2535	25.84
SJRWMD 25Y-24H	Pond 2.3	28.5016	25.83
SJRWMD 25Y-24H	Pond 2.3	28.7515	25.82
SJRWMD 25Y-24H	Pond 2.3	29.0004	25.80
SJRWMD 25Y-24H	Pond 2.3	29.2516	25.79
SJRWMD 25Y-24H	Pond 2.3	29.5018	25.78
SJRWMD 25Y-24H	Pond 2.3	29.7525	25.77
SJRWMD 25Y-24H	Pond 2.3	30.0054	25.75
SJRWMD 25Y-24H	Pond 2.3	30.2505	25.74
SJRWMD 25Y-24H	Pond 2.3	30.5043	25.73
SJRWMD 25Y-24H	Pond 2.3	30.7532	25.72
SJRWMD 25Y-24H	Pond 2.3	31.0021	25.71
SJRWMD 25Y-24H	Pond 2.3	31.2549	25.70
SJRWMD 25Y-24H	Pond 2.3	31.5025	25.69
SJRWMD 25Y-24H	Pond 2.3	31.7502	25.68
SJRWMD 25Y-24H	Pond 2.3	32.0021	25.66
SJRWMD 25Y-24H	Pond 2.3	32.2504	25.65
SJRWMD 25Y-24H	Pond 2.3	32.5001	25.64
SJRWMD 25Y-24H	Pond 2.3	32.7563	25.63
SJRWMD 25Y-24H	Pond 2.3	33.0003	25.62
SJRWMD 25Y-24H	Pond 2.3	33.2512	25.61
SJRWMD 25Y-24H	Pond 2.3	33.5013	25.60

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.3	33.7507	25.60
SJRWMD 25Y-24H	Pond 2.3	34.0019	25.59
SJRWMD 25Y-24H	Pond 2.3	34.2502	25.58
SJRWMD 25Y-24H	Pond 2.3	34.5015	25.57
SJRWMD 25Y-24H	Pond 2.3	34.7524	25.56
SJRWMD 25Y-24H	Pond 2.3	35.0036	25.55
SJRWMD 25Y-24H	Pond 2.3	35.2512	25.54
SJRWMD 25Y-24H	Pond 2.3	35.5029	25.53
SJRWMD 25Y-24H	Pond 2.3	35.7535	25.52
SJRWMD 25Y-24H	Pond 2.3	36.0007	25.52
SJRWMD 25Y-24H	Pond 2.3	36.2520	25.51
SJRWMD 25Y-24H	Pond 2.3	36.5013	25.50
SJRWMD 25Y-24H	Pond 2.3	36.7539	25.49
SJRWMD 25Y-24H	Pond 2.3	37.0021	25.48
SJRWMD 25Y-24H	Pond 2.3	37.2508	25.48
SJRWMD 25Y-24H	Pond 2.3	37.5027	25.47
SJRWMD 25Y-24H	Pond 2.3	37.7520	25.46
SJRWMD 25Y-24H	Pond 2.3	38.0030	25.45
SJRWMD 25Y-24H	Pond 2.3	38.2514	25.45
SJRWMD 25Y-24H	Pond 2.3	38.5004	25.44
SJRWMD 25Y-24H	Pond 2.3	38.7508	25.43
SJRWMD 25Y-24H	Pond 2.3	39.0016	25.43
SJRWMD 25Y-24H	Pond 2.3	39.2518	25.42
SJRWMD 25Y-24H	Pond 2.3	39.5010	25.41
SJRWMD 25Y-24H	Pond 2.3	39.7535	25.41
SJRWMD 25Y-24H	Pond 2.3	40.0005	25.40
SJRWMD 25Y-24H	Pond 2.3	40.2502	25.39
SJRWMD 25Y-24H	Pond 2.3	40.5028	25.39
SJRWMD 25Y-24H	Pond 2.3	40.7505	25.38
SJRWMD 25Y-24H	Pond 2.3	41.0023	25.37
SJRWMD 25Y-24H	Pond 2.3	41.2500	25.37
SJRWMD 25Y-24H	Pond 2.3	41.5020	25.36
SJRWMD 25Y-24H	Pond 2.3	41.7535	25.36
SJRWMD 25Y-24H	Pond 2.3	42.0005	25.35
SJRWMD 25Y-24H	Pond 2.3	42.2512	25.34
SJRWMD 25Y-24H	Pond 2.3	42.5009	25.34
SJRWMD 25Y-24H	Pond 2.3	42.7524	25.33
SJRWMD 25Y-24H	Pond 2.3	43.0023	25.33
SJRWMD 25Y-24H	Pond 2.3	43.2505	25.32
SJRWMD 25Y-24H	Pond 2.3	43.5036	25.32
SJRWMD 25Y-24H	Pond 2.3	43.7535	25.31
SJRWMD 25Y-24H	Pond 2.3	44.0063	25.31

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.3	44.2549	25.30
SJRWMD 25Y-24H	Pond 2.3	44.5009	25.30
SJRWMD 25Y-24H	Pond 2.3	44.7519	25.29
SJRWMD 25Y-24H	Pond 2.3	45.0010	25.29
SJRWMD 25Y-24H	Pond 2.3	45.2513	25.28
SJRWMD 25Y-24H	Pond 2.3	45.5000	25.28
SJRWMD 25Y-24H	Pond 2.3	45.7505	25.27
SJRWMD 25Y-24H	Pond 2.3	46.0017	25.27
SJRWMD 25Y-24H	Pond 2.3	46.2524	25.26
SJRWMD 25Y-24H	Pond 2.3	46.5016	25.26
SJRWMD 25Y-24H	Pond 2.3	46.7545	25.25
SJRWMD 25Y-24H	Pond 2.3	47.0004	25.25
SJRWMD 25Y-24H	Pond 2.3	47.2538	25.24
SJRWMD 25Y-24H	Pond 2.3	47.5002	25.24
SJRWMD 25Y-24H	Pond 2.3	47.7505	25.23
SJRWMD 25Y-24H	Pond 2.3	48.0029	25.23
SJRWMD 25Y-24H	Pond 2.4	0.0000	24.29
SJRWMD 25Y-24H	Pond 2.4	0.2511	24.29
SJRWMD 25Y-24H	Pond 2.4	0.5050	24.29
SJRWMD 25Y-24H	Pond 2.4	0.7527	24.29
SJRWMD 25Y-24H	Pond 2.4	1.0027	24.29
SJRWMD 25Y-24H	Pond 2.4	1.2527	24.29
SJRWMD 25Y-24H	Pond 2.4	1.5027	24.29
SJRWMD 25Y-24H	Pond 2.4	1.7527	24.29
SJRWMD 25Y-24H	Pond 2.4	2.0027	24.29
SJRWMD 25Y-24H	Pond 2.4	2.2527	24.29
SJRWMD 25Y-24H	Pond 2.4	2.5027	24.29
SJRWMD 25Y-24H	Pond 2.4	2.7512	24.29
SJRWMD 25Y-24H	Pond 2.4	3.0001	24.30
SJRWMD 25Y-24H	Pond 2.4	3.2502	24.30
SJRWMD 25Y-24H	Pond 2.4	3.5004	24.31
SJRWMD 25Y-24H	Pond 2.4	3.7513	24.31
SJRWMD 25Y-24H	Pond 2.4	4.0000	24.32
SJRWMD 25Y-24H	Pond 2.4	4.2519	24.32
SJRWMD 25Y-24H	Pond 2.4	4.5035	24.33
SJRWMD 25Y-24H	Pond 2.4	4.7520	24.34
SJRWMD 25Y-24H	Pond 2.4	5.0019	24.34
SJRWMD 25Y-24H	Pond 2.4	5.2528	24.35
SJRWMD 25Y-24H	Pond 2.4	5.5021	24.36
SJRWMD 25Y-24H	Pond 2.4	5.7525	24.37
SJRWMD 25Y-24H	Pond 2.4	6.0007	24.38
SJRWMD 25Y-24H	Pond 2.4	6.2526	24.39

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.4	6.5029	24.40
SJRWMD 25Y-24H	Pond 2.4	6.7520	24.41
SJRWMD 25Y-24H	Pond 2.4	7.0008	24.43
SJRWMD 25Y-24H	Pond 2.4	7.2517	24.44
SJRWMD 25Y-24H	Pond 2.4	7.5001	24.45
SJRWMD 25Y-24H	Pond 2.4	7.7525	24.47
SJRWMD 25Y-24H	Pond 2.4	8.0013	24.48
SJRWMD 25Y-24H	Pond 2.4	8.2503	24.50
SJRWMD 25Y-24H	Pond 2.4	8.5008	24.52
SJRWMD 25Y-24H	Pond 2.4	8.7509	24.54
SJRWMD 25Y-24H	Pond 2.4	9.0006	24.56
SJRWMD 25Y-24H	Pond 2.4	9.2509	24.58
SJRWMD 25Y-24H	Pond 2.4	9.5005	24.60
SJRWMD 25Y-24H	Pond 2.4	9.7505	24.63
SJRWMD 25Y-24H	Pond 2.4	10.0016	24.66
SJRWMD 25Y-24H	Pond 2.4	10.2509	24.69
SJRWMD 25Y-24H	Pond 2.4	10.5002	24.72
SJRWMD 25Y-24H	Pond 2.4	10.7502	24.76
SJRWMD 25Y-24H	Pond 2.4	11.0007	24.81
SJRWMD 25Y-24H	Pond 2.4	11.2500	24.85
SJRWMD 25Y-24H	Pond 2.4	11.5007	24.92
SJRWMD 25Y-24H	Pond 2.4	11.7505	25.05
SJRWMD 25Y-24H	Pond 2.4	12.0003	25.33
SJRWMD 25Y-24H	Pond 2.4	12.2505	25.71
SJRWMD 25Y-24H	Pond 2.4	12.5008	26.02
SJRWMD 25Y-24H	Pond 2.4	12.7503	26.18
SJRWMD 25Y-24H	Pond 2.4	13.0008	26.23
SJRWMD 25Y-24H	Pond 2.4	13.2523	26.25
SJRWMD 25Y-24H	Pond 2.4	13.5033	26.27
SJRWMD 25Y-24H	Pond 2.4	13.7515	26.28
SJRWMD 25Y-24H	Pond 2.4	14.0013	26.29
SJRWMD 25Y-24H	Pond 2.4	14.2519	26.30
SJRWMD 25Y-24H	Pond 2.4	14.5005	26.31
SJRWMD 25Y-24H	Pond 2.4	14.7503	26.31
SJRWMD 25Y-24H	Pond 2.4	15.0009	26.31
SJRWMD 25Y-24H	Pond 2.4	15.2502	26.32
SJRWMD 25Y-24H	Pond 2.4	15.5017	26.31
SJRWMD 25Y-24H	Pond 2.4	15.7506	26.31
SJRWMD 25Y-24H	Pond 2.4	16.0031	26.31
SJRWMD 25Y-24H	Pond 2.4	16.2537	26.31
SJRWMD 25Y-24H	Pond 2.4	16.5007	26.30
SJRWMD 25Y-24H	Pond 2.4	16.7535	26.30



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.4	17.0000	26.29
SJRWMD 25Y-24H	Pond 2.4	17.2518	26.29
SJRWMD 25Y-24H	Pond 2.4	17.5001	26.28
SJRWMD 25Y-24H	Pond 2.4	17.7530	26.28
SJRWMD 25Y-24H	Pond 2.4	18.0033	26.27
SJRWMD 25Y-24H	Pond 2.4	18.2511	26.26
SJRWMD 25Y-24H	Pond 2.4	18.5030	26.26
SJRWMD 25Y-24H	Pond 2.4	18.7501	26.25
SJRWMD 25Y-24H	Pond 2.4	19.0030	26.24
SJRWMD 25Y-24H	Pond 2.4	19.2512	26.23
SJRWMD 25Y-24H	Pond 2.4	19.5005	26.23
SJRWMD 25Y-24H	Pond 2.4	19.7521	26.22
SJRWMD 25Y-24H	Pond 2.4	20.0030	26.21
SJRWMD 25Y-24H	Pond 2.4	20.2516	26.20
SJRWMD 25Y-24H	Pond 2.4	20.5004	26.19
SJRWMD 25Y-24H	Pond 2.4	20.7526	26.19
SJRWMD 25Y-24H	Pond 2.4	21.0001	26.18
SJRWMD 25Y-24H	Pond 2.4	21.2527	26.17
SJRWMD 25Y-24H	Pond 2.4	21.5020	26.16
SJRWMD 25Y-24H	Pond 2.4	21.7503	26.15
SJRWMD 25Y-24H	Pond 2.4	22.0033	26.14
SJRWMD 25Y-24H	Pond 2.4	22.2501	26.14
SJRWMD 25Y-24H	Pond 2.4	22.5004	26.13
SJRWMD 25Y-24H	Pond 2.4	22.7513	26.12
SJRWMD 25Y-24H	Pond 2.4	23.0045	26.11
SJRWMD 25Y-24H	Pond 2.4	23.2526	26.10
SJRWMD 25Y-24H	Pond 2.4	23.5021	26.09
SJRWMD 25Y-24H	Pond 2.4	23.7507	26.08
SJRWMD 25Y-24H	Pond 2.4	24.0000	26.08
SJRWMD 25Y-24H	Pond 2.4	24.2532	26.06
SJRWMD 25Y-24H	Pond 2.4	24.5017	26.05
SJRWMD 25Y-24H	Pond 2.4	24.7520	26.03
SJRWMD 25Y-24H	Pond 2.4	25.0012	26.02
SJRWMD 25Y-24H	Pond 2.4	25.2526	26.00
SJRWMD 25Y-24H	Pond 2.4	25.5023	25.98
SJRWMD 25Y-24H	Pond 2.4	25.7547	25.97
SJRWMD 25Y-24H	Pond 2.4	26.0011	25.95
SJRWMD 25Y-24H	Pond 2.4	26.2537	25.94
SJRWMD 25Y-24H	Pond 2.4	26.5029	25.93
SJRWMD 25Y-24H	Pond 2.4	26.7538	25.91
SJRWMD 25Y-24H	Pond 2.4	27.0011	25.90
SJRWMD 25Y-24H	Pond 2.4	27.2548	25.88

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.4	27.5020	25.87
SJRWMD 25Y-24H	Pond 2.4	27.7548	25.86
SJRWMD 25Y-24H	Pond 2.4	28.0013	25.84
SJRWMD 25Y-24H	Pond 2.4	28.2535	25.83
SJRWMD 25Y-24H	Pond 2.4	28.5016	25.82
SJRWMD 25Y-24H	Pond 2.4	28.7515	25.81
SJRWMD 25Y-24H	Pond 2.4	29.0004	25.79
SJRWMD 25Y-24H	Pond 2.4	29.2516	25.78
SJRWMD 25Y-24H	Pond 2.4	29.5018	25.77
SJRWMD 25Y-24H	Pond 2.4	29.7525	25.76
SJRWMD 25Y-24H	Pond 2.4	30.0054	25.74
SJRWMD 25Y-24H	Pond 2.4	30.2505	25.73
SJRWMD 25Y-24H	Pond 2.4	30.5043	25.72
SJRWMD 25Y-24H	Pond 2.4	30.7532	25.71
SJRWMD 25Y-24H	Pond 2.4	31.0021	25.70
SJRWMD 25Y-24H	Pond 2.4	31.2549	25.69
SJRWMD 25Y-24H	Pond 2.4	31.5025	25.68
SJRWMD 25Y-24H	Pond 2.4	31.7502	25.67
SJRWMD 25Y-24H	Pond 2.4	32.0021	25.66
SJRWMD 25Y-24H	Pond 2.4	32.2504	25.65
SJRWMD 25Y-24H	Pond 2.4	32.5001	25.64
SJRWMD 25Y-24H	Pond 2.4	32.7563	25.63
SJRWMD 25Y-24H	Pond 2.4	33.0003	25.62
SJRWMD 25Y-24H	Pond 2.4	33.2512	25.61
SJRWMD 25Y-24H	Pond 2.4	33.5013	25.60
SJRWMD 25Y-24H	Pond 2.4	33.7507	25.59
SJRWMD 25Y-24H	Pond 2.4	34.0019	25.58
SJRWMD 25Y-24H	Pond 2.4	34.2502	25.57
SJRWMD 25Y-24H	Pond 2.4	34.5015	25.56
SJRWMD 25Y-24H	Pond 2.4	34.7524	25.55
SJRWMD 25Y-24H	Pond 2.4	35.0036	25.55
SJRWMD 25Y-24H	Pond 2.4	35.2512	25.54
SJRWMD 25Y-24H	Pond 2.4	35.5029	25.53
SJRWMD 25Y-24H	Pond 2.4	35.7535	25.52
SJRWMD 25Y-24H	Pond 2.4	36.0007	25.51
SJRWMD 25Y-24H	Pond 2.4	36.2520	25.50
SJRWMD 25Y-24H	Pond 2.4	36.5013	25.50
SJRWMD 25Y-24H	Pond 2.4	36.7539	25.49
SJRWMD 25Y-24H	Pond 2.4	37.0021	25.48
SJRWMD 25Y-24H	Pond 2.4	37.2508	25.47
SJRWMD 25Y-24H	Pond 2.4	37.5027	25.47
SJRWMD 25Y-24H	Pond 2.4	37.7520	25.46

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.4	38.0030	25.45
SJRWMD 25Y-24H	Pond 2.4	38.2514	25.44
SJRWMD 25Y-24H	Pond 2.4	38.5004	25.44
SJRWMD 25Y-24H	Pond 2.4	38.7508	25.43
SJRWMD 25Y-24H	Pond 2.4	39.0016	25.42
SJRWMD 25Y-24H	Pond 2.4	39.2518	25.42
SJRWMD 25Y-24H	Pond 2.4	39.5010	25.41
SJRWMD 25Y-24H	Pond 2.4	39.7535	25.40
SJRWMD 25Y-24H	Pond 2.4	40.0005	25.40
SJRWMD 25Y-24H	Pond 2.4	40.2502	25.39
SJRWMD 25Y-24H	Pond 2.4	40.5028	25.38
SJRWMD 25Y-24H	Pond 2.4	40.7505	25.38
SJRWMD 25Y-24H	Pond 2.4	41.0023	25.37
SJRWMD 25Y-24H	Pond 2.4	41.2500	25.36
SJRWMD 25Y-24H	Pond 2.4	41.5020	25.36
SJRWMD 25Y-24H	Pond 2.4	41.7535	25.35
SJRWMD 25Y-24H	Pond 2.4	42.0005	25.35
SJRWMD 25Y-24H	Pond 2.4	42.2512	25.34
SJRWMD 25Y-24H	Pond 2.4	42.5009	25.34
SJRWMD 25Y-24H	Pond 2.4	42.7524	25.33
SJRWMD 25Y-24H	Pond 2.4	43.0023	25.32
SJRWMD 25Y-24H	Pond 2.4	43.2505	25.32
SJRWMD 25Y-24H	Pond 2.4	43.5036	25.31
SJRWMD 25Y-24H	Pond 2.4	43.7535	25.31
SJRWMD 25Y-24H	Pond 2.4	44.0063	25.30
SJRWMD 25Y-24H	Pond 2.4	44.2549	25.30
SJRWMD 25Y-24H	Pond 2.4	44.5009	25.29
SJRWMD 25Y-24H	Pond 2.4	44.7519	25.29
SJRWMD 25Y-24H	Pond 2.4	45.0010	25.28
SJRWMD 25Y-24H	Pond 2.4	45.2513	25.28
SJRWMD 25Y-24H	Pond 2.4	45.5000	25.27
SJRWMD 25Y-24H	Pond 2.4	45.7505	25.27
SJRWMD 25Y-24H	Pond 2.4	46.0017	25.26
SJRWMD 25Y-24H	Pond 2.4	46.2524	25.26
SJRWMD 25Y-24H	Pond 2.4	46.5016	25.25
SJRWMD 25Y-24H	Pond 2.4	46.7545	25.25
SJRWMD 25Y-24H	Pond 2.4	47.0004	25.24
SJRWMD 25Y-24H	Pond 2.4	47.2538	25.24
SJRWMD 25Y-24H	Pond 2.4	47.5002	25.24
SJRWMD 25Y-24H	Pond 2.4	47.7505	25.23
SJRWMD 25Y-24H	Pond 2.4	48.0029	25.23
SJRWMD 25Y-24H	Pond 2.5	0.0000	24.29

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.5	0.2511	24.29
SJRWMD 25Y-24H	Pond 2.5	0.5050	24.29
SJRWMD 25Y-24H	Pond 2.5	0.7527	24.29
SJRWMD 25Y-24H	Pond 2.5	1.0027	24.29
SJRWMD 25Y-24H	Pond 2.5	1.2527	24.29
SJRWMD 25Y-24H	Pond 2.5	1.5027	24.29
SJRWMD 25Y-24H	Pond 2.5	1.7527	24.29
SJRWMD 25Y-24H	Pond 2.5	2.0027	24.29
SJRWMD 25Y-24H	Pond 2.5	2.2527	24.29
SJRWMD 25Y-24H	Pond 2.5	2.5027	24.29
SJRWMD 25Y-24H	Pond 2.5	2.7512	24.30
SJRWMD 25Y-24H	Pond 2.5	3.0001	24.30
SJRWMD 25Y-24H	Pond 2.5	3.2502	24.30
SJRWMD 25Y-24H	Pond 2.5	3.5004	24.31
SJRWMD 25Y-24H	Pond 2.5	3.7513	24.31
SJRWMD 25Y-24H	Pond 2.5	4.0000	24.32
SJRWMD 25Y-24H	Pond 2.5	4.2519	24.32
SJRWMD 25Y-24H	Pond 2.5	4.5035	24.33
SJRWMD 25Y-24H	Pond 2.5	4.7520	24.34
SJRWMD 25Y-24H	Pond 2.5	5.0019	24.34
SJRWMD 25Y-24H	Pond 2.5	5.2528	24.35
SJRWMD 25Y-24H	Pond 2.5	5.5021	24.36
SJRWMD 25Y-24H	Pond 2.5	5.7525	24.37
SJRWMD 25Y-24H	Pond 2.5	6.0007	24.38
SJRWMD 25Y-24H	Pond 2.5	6.2526	24.39
SJRWMD 25Y-24H	Pond 2.5	6.5029	24.40
SJRWMD 25Y-24H	Pond 2.5	6.7520	24.41
SJRWMD 25Y-24H	Pond 2.5	7.0008	24.43
SJRWMD 25Y-24H	Pond 2.5	7.2517	24.44
SJRWMD 25Y-24H	Pond 2.5	7.5001	24.45
SJRWMD 25Y-24H	Pond 2.5	7.7525	24.47
SJRWMD 25Y-24H	Pond 2.5	8.0013	24.49
SJRWMD 25Y-24H	Pond 2.5	8.2503	24.50
SJRWMD 25Y-24H	Pond 2.5	8.5008	24.52
SJRWMD 25Y-24H	Pond 2.5	8.7509	24.54
SJRWMD 25Y-24H	Pond 2.5	9.0006	24.56
SJRWMD 25Y-24H	Pond 2.5	9.2509	24.58
SJRWMD 25Y-24H	Pond 2.5	9.5005	24.61
SJRWMD 25Y-24H	Pond 2.5	9.7505	24.63
SJRWMD 25Y-24H	Pond 2.5	10.0016	24.66
SJRWMD 25Y-24H	Pond 2.5	10.2509	24.69
SJRWMD 25Y-24H	Pond 2.5	10.5002	24.72

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.5	10.7502	24.76
SJRWMD 25Y-24H	Pond 2.5	11.0007	24.81
SJRWMD 25Y-24H	Pond 2.5	11.2500	24.85
SJRWMD 25Y-24H	Pond 2.5	11.5007	24.92
SJRWMD 25Y-24H	Pond 2.5	11.7505	25.10
SJRWMD 25Y-24H	Pond 2.5	12.0003	25.51
SJRWMD 25Y-24H	Pond 2.5	12.2505	25.91
SJRWMD 25Y-24H	Pond 2.5	12.5008	26.10
SJRWMD 25Y-24H	Pond 2.5	12.7503	26.20
SJRWMD 25Y-24H	Pond 2.5	13.0008	26.27
SJRWMD 25Y-24H	Pond 2.5	13.2523	26.31
SJRWMD 25Y-24H	Pond 2.5	13.5033	26.33
SJRWMD 25Y-24H	Pond 2.5	13.7515	26.35
SJRWMD 25Y-24H	Pond 2.5	14.0013	26.37
SJRWMD 25Y-24H	Pond 2.5	14.2519	26.38
SJRWMD 25Y-24H	Pond 2.5	14.5005	26.39
SJRWMD 25Y-24H	Pond 2.5	14.7503	26.39
SJRWMD 25Y-24H	Pond 2.5	15.0009	26.39
SJRWMD 25Y-24H	Pond 2.5	15.2502	26.40
SJRWMD 25Y-24H	Pond 2.5	15.5017	26.40
SJRWMD 25Y-24H	Pond 2.5	15.7506	26.39
SJRWMD 25Y-24H	Pond 2.5	16.0031	26.39
SJRWMD 25Y-24H	Pond 2.5	16.2537	26.39
SJRWMD 25Y-24H	Pond 2.5	16.5007	26.38
SJRWMD 25Y-24H	Pond 2.5	16.7535	26.38
SJRWMD 25Y-24H	Pond 2.5	17.0000	26.37
SJRWMD 25Y-24H	Pond 2.5	17.2518	26.37
SJRWMD 25Y-24H	Pond 2.5	17.5001	26.36
SJRWMD 25Y-24H	Pond 2.5	17.7530	26.36
SJRWMD 25Y-24H	Pond 2.5	18.0033	26.35
SJRWMD 25Y-24H	Pond 2.5	18.2511	26.34
SJRWMD 25Y-24H	Pond 2.5	18.5030	26.33
SJRWMD 25Y-24H	Pond 2.5	18.7501	26.32
SJRWMD 25Y-24H	Pond 2.5	19.0030	26.32
SJRWMD 25Y-24H	Pond 2.5	19.2512	26.31
SJRWMD 25Y-24H	Pond 2.5	19.5005	26.30
SJRWMD 25Y-24H	Pond 2.5	19.7521	26.29
SJRWMD 25Y-24H	Pond 2.5	20.0030	26.28
SJRWMD 25Y-24H	Pond 2.5	20.2516	26.27
SJRWMD 25Y-24H	Pond 2.5	20.5004	26.26
SJRWMD 25Y-24H	Pond 2.5	20.7526	26.25
SJRWMD 25Y-24H	Pond 2.5	21.0001	26.24

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.5	21.2527	26.23
SJRWMD 25Y-24H	Pond 2.5	21.5020	26.22
SJRWMD 25Y-24H	Pond 2.5	21.7503	26.21
SJRWMD 25Y-24H	Pond 2.5	22.0033	26.20
SJRWMD 25Y-24H	Pond 2.5	22.2501	26.20
SJRWMD 25Y-24H	Pond 2.5	22.5004	26.19
SJRWMD 25Y-24H	Pond 2.5	22.7513	26.18
SJRWMD 25Y-24H	Pond 2.5	23.0045	26.17
SJRWMD 25Y-24H	Pond 2.5	23.2526	26.16
SJRWMD 25Y-24H	Pond 2.5	23.5021	26.15
SJRWMD 25Y-24H	Pond 2.5	23.7507	26.14
SJRWMD 25Y-24H	Pond 2.5	24.0000	26.13
SJRWMD 25Y-24H	Pond 2.5	24.2532	26.11
SJRWMD 25Y-24H	Pond 2.5	24.5017	26.10
SJRWMD 25Y-24H	Pond 2.5	24.7520	26.08
SJRWMD 25Y-24H	Pond 2.5	25.0012	26.06
SJRWMD 25Y-24H	Pond 2.5	25.2526	26.05
SJRWMD 25Y-24H	Pond 2.5	25.5023	26.03
SJRWMD 25Y-24H	Pond 2.5	25.7547	26.01
SJRWMD 25Y-24H	Pond 2.5	26.0011	26.00
SJRWMD 25Y-24H	Pond 2.5	26.2537	25.98
SJRWMD 25Y-24H	Pond 2.5	26.5029	25.96
SJRWMD 25Y-24H	Pond 2.5	26.7538	25.95
SJRWMD 25Y-24H	Pond 2.5	27.0011	25.93
SJRWMD 25Y-24H	Pond 2.5	27.2548	25.92
SJRWMD 25Y-24H	Pond 2.5	27.5020	25.90
SJRWMD 25Y-24H	Pond 2.5	27.7548	25.89
SJRWMD 25Y-24H	Pond 2.5	28.0013	25.87
SJRWMD 25Y-24H	Pond 2.5	28.2535	25.86
SJRWMD 25Y-24H	Pond 2.5	28.5016	25.85
SJRWMD 25Y-24H	Pond 2.5	28.7515	25.83
SJRWMD 25Y-24H	Pond 2.5	29.0004	25.82
SJRWMD 25Y-24H	Pond 2.5	29.2516	25.81
SJRWMD 25Y-24H	Pond 2.5	29.5018	25.79
SJRWMD 25Y-24H	Pond 2.5	29.7525	25.78
SJRWMD 25Y-24H	Pond 2.5	30.0054	25.77
SJRWMD 25Y-24H	Pond 2.5	30.2505	25.76
SJRWMD 25Y-24H	Pond 2.5	30.5043	25.74
SJRWMD 25Y-24H	Pond 2.5	30.7532	25.73
SJRWMD 25Y-24H	Pond 2.5	31.0021	25.72
SJRWMD 25Y-24H	Pond 2.5	31.2549	25.71
SJRWMD 25Y-24H	Pond 2.5	31.5025	25.70

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.5	31.7502	25.69
SJRWMD 25Y-24H	Pond 2.5	32.0021	25.68
SJRWMD 25Y-24H	Pond 2.5	32.2504	25.67
SJRWMD 25Y-24H	Pond 2.5	32.5001	25.65
SJRWMD 25Y-24H	Pond 2.5	32.7563	25.64
SJRWMD 25Y-24H	Pond 2.5	33.0003	25.63
SJRWMD 25Y-24H	Pond 2.5	33.2512	25.62
SJRWMD 25Y-24H	Pond 2.5	33.5013	25.61
SJRWMD 25Y-24H	Pond 2.5	33.7507	25.60
SJRWMD 25Y-24H	Pond 2.5	34.0019	25.59
SJRWMD 25Y-24H	Pond 2.5	34.2502	25.59
SJRWMD 25Y-24H	Pond 2.5	34.5015	25.58
SJRWMD 25Y-24H	Pond 2.5	34.7524	25.57
SJRWMD 25Y-24H	Pond 2.5	35.0036	25.56
SJRWMD 25Y-24H	Pond 2.5	35.2512	25.55
SJRWMD 25Y-24H	Pond 2.5	35.5029	25.54
SJRWMD 25Y-24H	Pond 2.5	35.7535	25.53
SJRWMD 25Y-24H	Pond 2.5	36.0007	25.52
SJRWMD 25Y-24H	Pond 2.5	36.2520	25.51
SJRWMD 25Y-24H	Pond 2.5	36.5013	25.51
SJRWMD 25Y-24H	Pond 2.5	36.7539	25.50
SJRWMD 25Y-24H	Pond 2.5	37.0021	25.49
SJRWMD 25Y-24H	Pond 2.5	37.2508	25.48
SJRWMD 25Y-24H	Pond 2.5	37.5027	25.48
SJRWMD 25Y-24H	Pond 2.5	37.7520	25.47
SJRWMD 25Y-24H	Pond 2.5	38.0030	25.46
SJRWMD 25Y-24H	Pond 2.5	38.2514	25.45
SJRWMD 25Y-24H	Pond 2.5	38.5004	25.45
SJRWMD 25Y-24H	Pond 2.5	38.7508	25.44
SJRWMD 25Y-24H	Pond 2.5	39.0016	25.43
SJRWMD 25Y-24H	Pond 2.5	39.2518	25.42
SJRWMD 25Y-24H	Pond 2.5	39.5010	25.42
SJRWMD 25Y-24H	Pond 2.5	39.7535	25.41
SJRWMD 25Y-24H	Pond 2.5	40.0005	25.40
SJRWMD 25Y-24H	Pond 2.5	40.2502	25.40
SJRWMD 25Y-24H	Pond 2.5	40.5028	25.39
SJRWMD 25Y-24H	Pond 2.5	40.7505	25.38
SJRWMD 25Y-24H	Pond 2.5	41.0023	25.38
SJRWMD 25Y-24H	Pond 2.5	41.2500	25.37
SJRWMD 25Y-24H	Pond 2.5	41.5020	25.37
SJRWMD 25Y-24H	Pond 2.5	41.7535	25.36
SJRWMD 25Y-24H	Pond 2.5	42.0005	25.35

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.5	42.2512	25.35
SJRWMD 25Y-24H	Pond 2.5	42.5009	25.34
SJRWMD 25Y-24H	Pond 2.5	42.7524	25.34
SJRWMD 25Y-24H	Pond 2.5	43.0023	25.33
SJRWMD 25Y-24H	Pond 2.5	43.2505	25.33
SJRWMD 25Y-24H	Pond 2.5	43.5036	25.32
SJRWMD 25Y-24H	Pond 2.5	43.7535	25.31
SJRWMD 25Y-24H	Pond 2.5	44.0063	25.31
SJRWMD 25Y-24H	Pond 2.5	44.2549	25.30
SJRWMD 25Y-24H	Pond 2.5	44.5009	25.30
SJRWMD 25Y-24H	Pond 2.5	44.7519	25.29
SJRWMD 25Y-24H	Pond 2.5	45.0010	25.29
SJRWMD 25Y-24H	Pond 2.5	45.2513	25.28
SJRWMD 25Y-24H	Pond 2.5	45.5000	25.28
SJRWMD 25Y-24H	Pond 2.5	45.7505	25.27
SJRWMD 25Y-24H	Pond 2.5	46.0017	25.27
SJRWMD 25Y-24H	Pond 2.5	46.2524	25.26
SJRWMD 25Y-24H	Pond 2.5	46.5016	25.26
SJRWMD 25Y-24H	Pond 2.5	46.7545	25.26
SJRWMD 25Y-24H	Pond 2.5	47.0004	25.25
SJRWMD 25Y-24H	Pond 2.5	47.2538	25.25
SJRWMD 25Y-24H	Pond 2.5	47.5002	25.24
SJRWMD 25Y-24H	Pond 2.5	47.7505	25.24
SJRWMD 25Y-24H	Pond 2.5	48.0029	25.23
SJRWMD 25Y-24H	Pond 2.6	0.0000	24.29
SJRWMD 25Y-24H	Pond 2.6	0.2511	24.33
SJRWMD 25Y-24H	Pond 2.6	0.5050	24.33
SJRWMD 25Y-24H	Pond 2.6	0.7527	24.33
SJRWMD 25Y-24H	Pond 2.6	1.0027	24.33
SJRWMD 25Y-24H	Pond 2.6	1.2527	24.33
SJRWMD 25Y-24H	Pond 2.6	1.5027	24.33
SJRWMD 25Y-24H	Pond 2.6	1.7527	24.33
SJRWMD 25Y-24H	Pond 2.6	2.0027	24.33
SJRWMD 25Y-24H	Pond 2.6	2.2527	24.33
SJRWMD 25Y-24H	Pond 2.6	2.5027	24.33
SJRWMD 25Y-24H	Pond 2.6	2.7512	24.34
SJRWMD 25Y-24H	Pond 2.6	3.0001	24.34
SJRWMD 25Y-24H	Pond 2.6	3.2502	24.34
SJRWMD 25Y-24H	Pond 2.6	3.5004	24.35
SJRWMD 25Y-24H	Pond 2.6	3.7513	24.35
SJRWMD 25Y-24H	Pond 2.6	4.0000	24.36
SJRWMD 25Y-24H	Pond 2.6	4.2519	24.37



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.6	4.5035	24.38
SJRWMD 25Y-24H	Pond 2.6	4.7520	24.38
SJRWMD 25Y-24H	Pond 2.6	5.0019	24.39
SJRWMD 25Y-24H	Pond 2.6	5.2528	24.40
SJRWMD 25Y-24H	Pond 2.6	5.5021	24.41
SJRWMD 25Y-24H	Pond 2.6	5.7525	24.42
SJRWMD 25Y-24H	Pond 2.6	6.0007	24.43
SJRWMD 25Y-24H	Pond 2.6	6.2526	24.44
SJRWMD 25Y-24H	Pond 2.6	6.5029	24.46
SJRWMD 25Y-24H	Pond 2.6	6.7520	24.47
SJRWMD 25Y-24H	Pond 2.6	7.0008	24.48
SJRWMD 25Y-24H	Pond 2.6	7.2517	24.50
SJRWMD 25Y-24H	Pond 2.6	7.5001	24.52
SJRWMD 25Y-24H	Pond 2.6	7.7525	24.53
SJRWMD 25Y-24H	Pond 2.6	8.0013	24.55
SJRWMD 25Y-24H	Pond 2.6	8.2503	24.57
SJRWMD 25Y-24H	Pond 2.6	8.5008	24.59
SJRWMD 25Y-24H	Pond 2.6	8.7509	24.61
SJRWMD 25Y-24H	Pond 2.6	9.0006	24.63
SJRWMD 25Y-24H	Pond 2.6	9.2509	24.66
SJRWMD 25Y-24H	Pond 2.6	9.5005	24.68
SJRWMD 25Y-24H	Pond 2.6	9.7505	24.71
SJRWMD 25Y-24H	Pond 2.6	10.0016	24.74
SJRWMD 25Y-24H	Pond 2.6	10.2509	24.78
SJRWMD 25Y-24H	Pond 2.6	10.5002	24.81
SJRWMD 25Y-24H	Pond 2.6	10.7502	24.86
SJRWMD 25Y-24H	Pond 2.6	11.0007	24.90
SJRWMD 25Y-24H	Pond 2.6	11.2500	24.95
SJRWMD 25Y-24H	Pond 2.6	11.5007	25.01
SJRWMD 25Y-24H	Pond 2.6	11.7505	25.17
SJRWMD 25Y-24H	Pond 2.6	12.0003	25.51
SJRWMD 25Y-24H	Pond 2.6	12.2505	25.87
SJRWMD 25Y-24H	Pond 2.6	12.5008	26.08
SJRWMD 25Y-24H	Pond 2.6	12.7503	26.20
SJRWMD 25Y-24H	Pond 2.6	13.0008	26.25
SJRWMD 25Y-24H	Pond 2.6	13.2523	26.27
SJRWMD 25Y-24H	Pond 2.6	13.5033	26.29
SJRWMD 25Y-24H	Pond 2.6	13.7515	26.30
SJRWMD 25Y-24H	Pond 2.6	14.0013	26.31
SJRWMD 25Y-24H	Pond 2.6	14.2519	26.31
SJRWMD 25Y-24H	Pond 2.6	14.5005	26.31
SJRWMD 25Y-24H	Pond 2.6	14.7503	26.31

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.6	15.0009	26.31
SJRWMD 25Y-24H	Pond 2.6	15.2502	26.31
SJRWMD 25Y-24H	Pond 2.6	15.5017	26.31
SJRWMD 25Y-24H	Pond 2.6	15.7506	26.30
SJRWMD 25Y-24H	Pond 2.6	16.0031	26.29
SJRWMD 25Y-24H	Pond 2.6	16.2537	26.29
SJRWMD 25Y-24H	Pond 2.6	16.5007	26.28
SJRWMD 25Y-24H	Pond 2.6	16.7535	26.27
SJRWMD 25Y-24H	Pond 2.6	17.0000	26.26
SJRWMD 25Y-24H	Pond 2.6	17.2518	26.25
SJRWMD 25Y-24H	Pond 2.6	17.5001	26.25
SJRWMD 25Y-24H	Pond 2.6	17.7530	26.24
SJRWMD 25Y-24H	Pond 2.6	18.0033	26.22
SJRWMD 25Y-24H	Pond 2.6	18.2511	26.21
SJRWMD 25Y-24H	Pond 2.6	18.5030	26.20
SJRWMD 25Y-24H	Pond 2.6	18.7501	26.19
SJRWMD 25Y-24H	Pond 2.6	19.0030	26.18
SJRWMD 25Y-24H	Pond 2.6	19.2512	26.17
SJRWMD 25Y-24H	Pond 2.6	19.5005	26.16
SJRWMD 25Y-24H	Pond 2.6	19.7521	26.14
SJRWMD 25Y-24H	Pond 2.6	20.0030	26.13
SJRWMD 25Y-24H	Pond 2.6	20.2516	26.12
SJRWMD 25Y-24H	Pond 2.6	20.5004	26.10
SJRWMD 25Y-24H	Pond 2.6	20.7526	26.09
SJRWMD 25Y-24H	Pond 2.6	21.0001	26.08
SJRWMD 25Y-24H	Pond 2.6	21.2527	26.06
SJRWMD 25Y-24H	Pond 2.6	21.5020	26.05
SJRWMD 25Y-24H	Pond 2.6	21.7503	26.04
SJRWMD 25Y-24H	Pond 2.6	22.0033	26.02
SJRWMD 25Y-24H	Pond 2.6	22.2501	26.01
SJRWMD 25Y-24H	Pond 2.6	22.5004	26.00
SJRWMD 25Y-24H	Pond 2.6	22.7513	25.98
SJRWMD 25Y-24H	Pond 2.6	23.0045	25.97
SJRWMD 25Y-24H	Pond 2.6	23.2526	25.96
SJRWMD 25Y-24H	Pond 2.6	23.5021	25.94
SJRWMD 25Y-24H	Pond 2.6	23.7507	25.93
SJRWMD 25Y-24H	Pond 2.6	24.0000	25.91
SJRWMD 25Y-24H	Pond 2.6	24.2532	25.89
SJRWMD 25Y-24H	Pond 2.6	24.5017	25.87
SJRWMD 25Y-24H	Pond 2.6	24.7520	25.85
SJRWMD 25Y-24H	Pond 2.6	25.0012	25.83
SJRWMD 25Y-24H	Pond 2.6	25.2526	25.80

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.6	25.5023	25.78
SJRWMD 25Y-24H	Pond 2.6	25.7547	25.76
SJRWMD 25Y-24H	Pond 2.6	26.0011	25.74
SJRWMD 25Y-24H	Pond 2.6	26.2537	25.71
SJRWMD 25Y-24H	Pond 2.6	26.5029	25.69
SJRWMD 25Y-24H	Pond 2.6	26.7538	25.67
SJRWMD 25Y-24H	Pond 2.6	27.0011	25.65
SJRWMD 25Y-24H	Pond 2.6	27.2548	25.63
SJRWMD 25Y-24H	Pond 2.6	27.5020	25.61
SJRWMD 25Y-24H	Pond 2.6	27.7548	25.59
SJRWMD 25Y-24H	Pond 2.6	28.0013	25.57
SJRWMD 25Y-24H	Pond 2.6	28.2535	25.54
SJRWMD 25Y-24H	Pond 2.6	28.5016	25.53
SJRWMD 25Y-24H	Pond 2.6	28.7515	25.51
SJRWMD 25Y-24H	Pond 2.6	29.0004	25.49
SJRWMD 25Y-24H	Pond 2.6	29.2516	25.47
SJRWMD 25Y-24H	Pond 2.6	29.5018	25.45
SJRWMD 25Y-24H	Pond 2.6	29.7525	25.43
SJRWMD 25Y-24H	Pond 2.6	30.0054	25.41
SJRWMD 25Y-24H	Pond 2.6	30.2505	25.39
SJRWMD 25Y-24H	Pond 2.6	30.5043	25.38
SJRWMD 25Y-24H	Pond 2.6	30.7532	25.36
SJRWMD 25Y-24H	Pond 2.6	31.0021	25.34
SJRWMD 25Y-24H	Pond 2.6	31.2549	25.33
SJRWMD 25Y-24H	Pond 2.6	31.5025	25.31
SJRWMD 25Y-24H	Pond 2.6	31.7502	25.30
SJRWMD 25Y-24H	Pond 2.6	32.0021	25.28
SJRWMD 25Y-24H	Pond 2.6	32.2504	25.27
SJRWMD 25Y-24H	Pond 2.6	32.5001	25.25
SJRWMD 25Y-24H	Pond 2.6	32.7563	25.24
SJRWMD 25Y-24H	Pond 2.6	33.0003	25.22
SJRWMD 25Y-24H	Pond 2.6	33.2512	25.21
SJRWMD 25Y-24H	Pond 2.6	33.5013	25.20
SJRWMD 25Y-24H	Pond 2.6	33.7507	25.19
SJRWMD 25Y-24H	Pond 2.6	34.0019	25.17
SJRWMD 25Y-24H	Pond 2.6	34.2502	25.16
SJRWMD 25Y-24H	Pond 2.6	34.5015	25.15
SJRWMD 25Y-24H	Pond 2.6	34.7524	25.14
SJRWMD 25Y-24H	Pond 2.6	35.0036	25.13
SJRWMD 25Y-24H	Pond 2.6	35.2512	25.12
SJRWMD 25Y-24H	Pond 2.6	35.5029	25.11
SJRWMD 25Y-24H	Pond 2.6	35.7535	25.10

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.6	36.0007	25.09
SJRWMD 25Y-24H	Pond 2.6	36.2520	25.08
SJRWMD 25Y-24H	Pond 2.6	36.5013	25.07
SJRWMD 25Y-24H	Pond 2.6	36.7539	25.06
SJRWMD 25Y-24H	Pond 2.6	37.0021	25.05
SJRWMD 25Y-24H	Pond 2.6	37.2508	25.04
SJRWMD 25Y-24H	Pond 2.6	37.5027	25.03
SJRWMD 25Y-24H	Pond 2.6	37.7520	25.02
SJRWMD 25Y-24H	Pond 2.6	38.0030	25.02
SJRWMD 25Y-24H	Pond 2.6	38.2514	25.01
SJRWMD 25Y-24H	Pond 2.6	38.5004	25.00
SJRWMD 25Y-24H	Pond 2.6	38.7508	24.99
SJRWMD 25Y-24H	Pond 2.6	39.0016	24.99
SJRWMD 25Y-24H	Pond 2.6	39.2518	24.98
SJRWMD 25Y-24H	Pond 2.6	39.5010	24.97
SJRWMD 25Y-24H	Pond 2.6	39.7535	24.97
SJRWMD 25Y-24H	Pond 2.6	40.0005	24.96
SJRWMD 25Y-24H	Pond 2.6	40.2502	24.96
SJRWMD 25Y-24H	Pond 2.6	40.5028	24.95
SJRWMD 25Y-24H	Pond 2.6	40.7505	24.95
SJRWMD 25Y-24H	Pond 2.6	41.0023	24.94
SJRWMD 25Y-24H	Pond 2.6	41.2500	24.94
SJRWMD 25Y-24H	Pond 2.6	41.5020	24.93
SJRWMD 25Y-24H	Pond 2.6	41.7535	24.93
SJRWMD 25Y-24H	Pond 2.6	42.0005	24.92
SJRWMD 25Y-24H	Pond 2.6	42.2512	24.92
SJRWMD 25Y-24H	Pond 2.6	42.5009	24.92
SJRWMD 25Y-24H	Pond 2.6	42.7524	24.91
SJRWMD 25Y-24H	Pond 2.6	43.0023	24.91
SJRWMD 25Y-24H	Pond 2.6	43.2505	24.91
SJRWMD 25Y-24H	Pond 2.6	43.5036	24.90
SJRWMD 25Y-24H	Pond 2.6	43.7535	24.90
SJRWMD 25Y-24H	Pond 2.6	44.0063	24.90
SJRWMD 25Y-24H	Pond 2.6	44.2549	24.89
SJRWMD 25Y-24H	Pond 2.6	44.5009	24.89
SJRWMD 25Y-24H	Pond 2.6	44.7519	24.89
SJRWMD 25Y-24H	Pond 2.6	45.0010	24.88
SJRWMD 25Y-24H	Pond 2.6	45.2513	24.88
SJRWMD 25Y-24H	Pond 2.6	45.5000	24.88
SJRWMD 25Y-24H	Pond 2.6	45.7505	24.88
SJRWMD 25Y-24H	Pond 2.6	46.0017	24.87
SJRWMD 25Y-24H	Pond 2.6	46.2524	24.87

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.6	46.5016	24.87
SJRWMD 25Y-24H	Pond 2.6	46.7545	24.87
SJRWMD 25Y-24H	Pond 2.6	47.0004	24.87
SJRWMD 25Y-24H	Pond 2.6	47.2538	24.86
SJRWMD 25Y-24H	Pond 2.6	47.5002	24.86
SJRWMD 25Y-24H	Pond 2.6	47.7505	24.86
SJRWMD 25Y-24H	Pond 2.6	48.0029	24.86
SJRWMD 25Y-24H	Pond 2.7	0.0000	24.29
SJRWMD 25Y-24H	Pond 2.7	0.2511	24.33
SJRWMD 25Y-24H	Pond 2.7	0.5050	24.33
SJRWMD 25Y-24H	Pond 2.7	0.7527	24.33
SJRWMD 25Y-24H	Pond 2.7	1.0027	24.33
SJRWMD 25Y-24H	Pond 2.7	1.2527	24.33
SJRWMD 25Y-24H	Pond 2.7	1.5027	24.33
SJRWMD 25Y-24H	Pond 2.7	1.7527	24.33
SJRWMD 25Y-24H	Pond 2.7	2.0027	24.33
SJRWMD 25Y-24H	Pond 2.7	2.2527	24.33
SJRWMD 25Y-24H	Pond 2.7	2.5027	24.33
SJRWMD 25Y-24H	Pond 2.7	2.7512	24.34
SJRWMD 25Y-24H	Pond 2.7	3.0001	24.34
SJRWMD 25Y-24H	Pond 2.7	3.2502	24.34
SJRWMD 25Y-24H	Pond 2.7	3.5004	24.35
SJRWMD 25Y-24H	Pond 2.7	3.7513	24.35
SJRWMD 25Y-24H	Pond 2.7	4.0000	24.36
SJRWMD 25Y-24H	Pond 2.7	4.2519	24.37
SJRWMD 25Y-24H	Pond 2.7	4.5035	24.37
SJRWMD 25Y-24H	Pond 2.7	4.7520	24.38
SJRWMD 25Y-24H	Pond 2.7	5.0019	24.39
SJRWMD 25Y-24H	Pond 2.7	5.2528	24.40
SJRWMD 25Y-24H	Pond 2.7	5.5021	24.41
SJRWMD 25Y-24H	Pond 2.7	5.7525	24.42
SJRWMD 25Y-24H	Pond 2.7	6.0007	24.43
SJRWMD 25Y-24H	Pond 2.7	6.2526	24.44
SJRWMD 25Y-24H	Pond 2.7	6.5029	24.46
SJRWMD 25Y-24H	Pond 2.7	6.7520	24.47
SJRWMD 25Y-24H	Pond 2.7	7.0008	24.48
SJRWMD 25Y-24H	Pond 2.7	7.2517	24.50
SJRWMD 25Y-24H	Pond 2.7	7.5001	24.51
SJRWMD 25Y-24H	Pond 2.7	7.7525	24.53
SJRWMD 25Y-24H	Pond 2.7	8.0013	24.55
SJRWMD 25Y-24H	Pond 2.7	8.2503	24.57
SJRWMD 25Y-24H	Pond 2.7	8.5008	24.59

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.7	8.7509	24.61
SJRWMD 25Y-24H	Pond 2.7	9.0006	24.63
SJRWMD 25Y-24H	Pond 2.7	9.2509	24.66
SJRWMD 25Y-24H	Pond 2.7	9.5005	24.68
SJRWMD 25Y-24H	Pond 2.7	9.7505	24.71
SJRWMD 25Y-24H	Pond 2.7	10.0016	24.74
SJRWMD 25Y-24H	Pond 2.7	10.2509	24.77
SJRWMD 25Y-24H	Pond 2.7	10.5002	24.81
SJRWMD 25Y-24H	Pond 2.7	10.7502	24.85
SJRWMD 25Y-24H	Pond 2.7	11.0007	24.90
SJRWMD 25Y-24H	Pond 2.7	11.2500	24.95
SJRWMD 25Y-24H	Pond 2.7	11.5007	25.01
SJRWMD 25Y-24H	Pond 2.7	11.7505	25.15
SJRWMD 25Y-24H	Pond 2.7	12.0003	25.45
SJRWMD 25Y-24H	Pond 2.7	12.2505	25.84
SJRWMD 25Y-24H	Pond 2.7	12.5008	26.09
SJRWMD 25Y-24H	Pond 2.7	12.7503	26.23
SJRWMD 25Y-24H	Pond 2.7	13.0008	26.31
SJRWMD 25Y-24H	Pond 2.7	13.2523	26.34
SJRWMD 25Y-24H	Pond 2.7	13.5033	26.36
SJRWMD 25Y-24H	Pond 2.7	13.7515	26.37
SJRWMD 25Y-24H	Pond 2.7	14.0013	26.37
SJRWMD 25Y-24H	Pond 2.7	14.2519	26.37
SJRWMD 25Y-24H	Pond 2.7	14.5005	26.37
SJRWMD 25Y-24H	Pond 2.7	14.7503	26.37
SJRWMD 25Y-24H	Pond 2.7	15.0009	26.36
SJRWMD 25Y-24H	Pond 2.7	15.2502	26.36
SJRWMD 25Y-24H	Pond 2.7	15.5017	26.35
SJRWMD 25Y-24H	Pond 2.7	15.7506	26.35
SJRWMD 25Y-24H	Pond 2.7	16.0031	26.34
SJRWMD 25Y-24H	Pond 2.7	16.2537	26.33
SJRWMD 25Y-24H	Pond 2.7	16.5007	26.32
SJRWMD 25Y-24H	Pond 2.7	16.7535	26.31
SJRWMD 25Y-24H	Pond 2.7	17.0000	26.30
SJRWMD 25Y-24H	Pond 2.7	17.2518	26.29
SJRWMD 25Y-24H	Pond 2.7	17.5001	26.28
SJRWMD 25Y-24H	Pond 2.7	17.7530	26.27
SJRWMD 25Y-24H	Pond 2.7	18.0033	26.26
SJRWMD 25Y-24H	Pond 2.7	18.2511	26.25
SJRWMD 25Y-24H	Pond 2.7	18.5030	26.23
SJRWMD 25Y-24H	Pond 2.7	18.7501	26.22
SJRWMD 25Y-24H	Pond 2.7	19.0030	26.21

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.7	19.2512	26.20
SJRWMD 25Y-24H	Pond 2.7	19.5005	26.19
SJRWMD 25Y-24H	Pond 2.7	19.7521	26.17
SJRWMD 25Y-24H	Pond 2.7	20.0030	26.16
SJRWMD 25Y-24H	Pond 2.7	20.2516	26.15
SJRWMD 25Y-24H	Pond 2.7	20.5004	26.13
SJRWMD 25Y-24H	Pond 2.7	20.7526	26.12
SJRWMD 25Y-24H	Pond 2.7	21.0001	26.11
SJRWMD 25Y-24H	Pond 2.7	21.2527	26.09
SJRWMD 25Y-24H	Pond 2.7	21.5020	26.08
SJRWMD 25Y-24H	Pond 2.7	21.7503	26.06
SJRWMD 25Y-24H	Pond 2.7	22.0033	26.05
SJRWMD 25Y-24H	Pond 2.7	22.2501	26.04
SJRWMD 25Y-24H	Pond 2.7	22.5004	26.02
SJRWMD 25Y-24H	Pond 2.7	22.7513	26.01
SJRWMD 25Y-24H	Pond 2.7	23.0045	26.00
SJRWMD 25Y-24H	Pond 2.7	23.2526	25.98
SJRWMD 25Y-24H	Pond 2.7	23.5021	25.97
SJRWMD 25Y-24H	Pond 2.7	23.7507	25.95
SJRWMD 25Y-24H	Pond 2.7	24.0000	25.94
SJRWMD 25Y-24H	Pond 2.7	24.2532	25.92
SJRWMD 25Y-24H	Pond 2.7	24.5017	25.90
SJRWMD 25Y-24H	Pond 2.7	24.7520	25.88
SJRWMD 25Y-24H	Pond 2.7	25.0012	25.85
SJRWMD 25Y-24H	Pond 2.7	25.2526	25.83
SJRWMD 25Y-24H	Pond 2.7	25.5023	25.81
SJRWMD 25Y-24H	Pond 2.7	25.7547	25.78
SJRWMD 25Y-24H	Pond 2.7	26.0011	25.76
SJRWMD 25Y-24H	Pond 2.7	26.2537	25.74
SJRWMD 25Y-24H	Pond 2.7	26.5029	25.71
SJRWMD 25Y-24H	Pond 2.7	26.7538	25.69
SJRWMD 25Y-24H	Pond 2.7	27.0011	25.67
SJRWMD 25Y-24H	Pond 2.7	27.2548	25.65
SJRWMD 25Y-24H	Pond 2.7	27.5020	25.63
SJRWMD 25Y-24H	Pond 2.7	27.7548	25.61
SJRWMD 25Y-24H	Pond 2.7	28.0013	25.58
SJRWMD 25Y-24H	Pond 2.7	28.2535	25.56
SJRWMD 25Y-24H	Pond 2.7	28.5016	25.54
SJRWMD 25Y-24H	Pond 2.7	28.7515	25.52
SJRWMD 25Y-24H	Pond 2.7	29.0004	25.50
SJRWMD 25Y-24H	Pond 2.7	29.2516	25.48
SJRWMD 25Y-24H	Pond 2.7	29.5018	25.46

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.7	29.7525	25.45
SJRWMD 25Y-24H	Pond 2.7	30.0054	25.43
SJRWMD 25Y-24H	Pond 2.7	30.2505	25.41
SJRWMD 25Y-24H	Pond 2.7	30.5043	25.39
SJRWMD 25Y-24H	Pond 2.7	30.7532	25.37
SJRWMD 25Y-24H	Pond 2.7	31.0021	25.36
SJRWMD 25Y-24H	Pond 2.7	31.2549	25.34
SJRWMD 25Y-24H	Pond 2.7	31.5025	25.32
SJRWMD 25Y-24H	Pond 2.7	31.7502	25.31
SJRWMD 25Y-24H	Pond 2.7	32.0021	25.29
SJRWMD 25Y-24H	Pond 2.7	32.2504	25.28
SJRWMD 25Y-24H	Pond 2.7	32.5001	25.26
SJRWMD 25Y-24H	Pond 2.7	32.7563	25.25
SJRWMD 25Y-24H	Pond 2.7	33.0003	25.23
SJRWMD 25Y-24H	Pond 2.7	33.2512	25.22
SJRWMD 25Y-24H	Pond 2.7	33.5013	25.21
SJRWMD 25Y-24H	Pond 2.7	33.7507	25.19
SJRWMD 25Y-24H	Pond 2.7	34.0019	25.18
SJRWMD 25Y-24H	Pond 2.7	34.2502	25.17
SJRWMD 25Y-24H	Pond 2.7	34.5015	25.16
SJRWMD 25Y-24H	Pond 2.7	34.7524	25.14
SJRWMD 25Y-24H	Pond 2.7	35.0036	25.13
SJRWMD 25Y-24H	Pond 2.7	35.2512	25.12
SJRWMD 25Y-24H	Pond 2.7	35.5029	25.11
SJRWMD 25Y-24H	Pond 2.7	35.7535	25.10
SJRWMD 25Y-24H	Pond 2.7	36.0007	25.09
SJRWMD 25Y-24H	Pond 2.7	36.2520	25.08
SJRWMD 25Y-24H	Pond 2.7	36.5013	25.07
SJRWMD 25Y-24H	Pond 2.7	36.7539	25.06
SJRWMD 25Y-24H	Pond 2.7	37.0021	25.05
SJRWMD 25Y-24H	Pond 2.7	37.2508	25.04
SJRWMD 25Y-24H	Pond 2.7	37.5027	25.03
SJRWMD 25Y-24H	Pond 2.7	37.7520	25.03
SJRWMD 25Y-24H	Pond 2.7	38.0030	25.02
SJRWMD 25Y-24H	Pond 2.7	38.2514	25.01
SJRWMD 25Y-24H	Pond 2.7	38.5004	25.00
SJRWMD 25Y-24H	Pond 2.7	38.7508	25.00
SJRWMD 25Y-24H	Pond 2.7	39.0016	24.99
SJRWMD 25Y-24H	Pond 2.7	39.2518	24.98
SJRWMD 25Y-24H	Pond 2.7	39.5010	24.98
SJRWMD 25Y-24H	Pond 2.7	39.7535	24.97
SJRWMD 25Y-24H	Pond 2.7	40.0005	24.97



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.7	40.2502	24.96
SJRWMD 25Y-24H	Pond 2.7	40.5028	24.95
SJRWMD 25Y-24H	Pond 2.7	40.7505	24.95
SJRWMD 25Y-24H	Pond 2.7	41.0023	24.94
SJRWMD 25Y-24H	Pond 2.7	41.2500	24.94
SJRWMD 25Y-24H	Pond 2.7	41.5020	24.94
SJRWMD 25Y-24H	Pond 2.7	41.7535	24.93
SJRWMD 25Y-24H	Pond 2.7	42.0005	24.93
SJRWMD 25Y-24H	Pond 2.7	42.2512	24.92
SJRWMD 25Y-24H	Pond 2.7	42.5009	24.92
SJRWMD 25Y-24H	Pond 2.7	42.7524	24.92
SJRWMD 25Y-24H	Pond 2.7	43.0023	24.91
SJRWMD 25Y-24H	Pond 2.7	43.2505	24.91
SJRWMD 25Y-24H	Pond 2.7	43.5036	24.90
SJRWMD 25Y-24H	Pond 2.7	43.7535	24.90
SJRWMD 25Y-24H	Pond 2.7	44.0063	24.90
SJRWMD 25Y-24H	Pond 2.7	44.2549	24.90
SJRWMD 25Y-24H	Pond 2.7	44.5009	24.89
SJRWMD 25Y-24H	Pond 2.7	44.7519	24.89
SJRWMD 25Y-24H	Pond 2.7	45.0010	24.89
SJRWMD 25Y-24H	Pond 2.7	45.2513	24.88
SJRWMD 25Y-24H	Pond 2.7	45.5000	24.88
SJRWMD 25Y-24H	Pond 2.7	45.7505	24.88
SJRWMD 25Y-24H	Pond 2.7	46.0017	24.88
SJRWMD 25Y-24H	Pond 2.7	46.2524	24.87
SJRWMD 25Y-24H	Pond 2.7	46.5016	24.87
SJRWMD 25Y-24H	Pond 2.7	46.7545	24.87
SJRWMD 25Y-24H	Pond 2.7	47.0004	24.87
SJRWMD 25Y-24H	Pond 2.7	47.2538	24.87
SJRWMD 25Y-24H	Pond 2.7	47.5002	24.86
SJRWMD 25Y-24H	Pond 2.7	47.7505	24.86
SJRWMD 25Y-24H	Pond 2.7	48.0029	24.86
SJRWMD 25Y-24H	Pond 2.8	0.0000	24.29
SJRWMD 25Y-24H	Pond 2.8	0.2511	24.29
SJRWMD 25Y-24H	Pond 2.8	0.5050	24.29
SJRWMD 25Y-24H	Pond 2.8	0.7527	24.29
SJRWMD 25Y-24H	Pond 2.8	1.0027	24.29
SJRWMD 25Y-24H	Pond 2.8	1.2527	24.29
SJRWMD 25Y-24H	Pond 2.8	1.5027	24.29
SJRWMD 25Y-24H	Pond 2.8	1.7527	24.29
SJRWMD 25Y-24H	Pond 2.8	2.0027	24.29
SJRWMD 25Y-24H	Pond 2.8	2.2527	24.29

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.8	2.5027	24.29
SJRWMD 25Y-24H	Pond 2.8	2.7512	24.30
SJRWMD 25Y-24H	Pond 2.8	3.0001	24.30
SJRWMD 25Y-24H	Pond 2.8	3.2502	24.30
SJRWMD 25Y-24H	Pond 2.8	3.5004	24.31
SJRWMD 25Y-24H	Pond 2.8	3.7513	24.31
SJRWMD 25Y-24H	Pond 2.8	4.0000	24.32
SJRWMD 25Y-24H	Pond 2.8	4.2519	24.32
SJRWMD 25Y-24H	Pond 2.8	4.5035	24.33
SJRWMD 25Y-24H	Pond 2.8	4.7520	24.34
SJRWMD 25Y-24H	Pond 2.8	5.0019	24.34
SJRWMD 25Y-24H	Pond 2.8	5.2528	24.35
SJRWMD 25Y-24H	Pond 2.8	5.5021	24.36
SJRWMD 25Y-24H	Pond 2.8	5.7525	24.37
SJRWMD 25Y-24H	Pond 2.8	6.0007	24.38
SJRWMD 25Y-24H	Pond 2.8	6.2526	24.39
SJRWMD 25Y-24H	Pond 2.8	6.5029	24.40
SJRWMD 25Y-24H	Pond 2.8	6.7520	24.41
SJRWMD 25Y-24H	Pond 2.8	7.0008	24.42
SJRWMD 25Y-24H	Pond 2.8	7.2517	24.44
SJRWMD 25Y-24H	Pond 2.8	7.5001	24.45
SJRWMD 25Y-24H	Pond 2.8	7.7525	24.47
SJRWMD 25Y-24H	Pond 2.8	8.0013	24.48
SJRWMD 25Y-24H	Pond 2.8	8.2503	24.50
SJRWMD 25Y-24H	Pond 2.8	8.5008	24.52
SJRWMD 25Y-24H	Pond 2.8	8.7509	24.54
SJRWMD 25Y-24H	Pond 2.8	9.0006	24.56
SJRWMD 25Y-24H	Pond 2.8	9.2509	24.58
SJRWMD 25Y-24H	Pond 2.8	9.5005	24.60
SJRWMD 25Y-24H	Pond 2.8	9.7505	24.63
SJRWMD 25Y-24H	Pond 2.8	10.0016	24.65
SJRWMD 25Y-24H	Pond 2.8	10.2509	24.68
SJRWMD 25Y-24H	Pond 2.8	10.5002	24.72
SJRWMD 25Y-24H	Pond 2.8	10.7502	24.76
SJRWMD 25Y-24H	Pond 2.8	11.0007	24.80
SJRWMD 25Y-24H	Pond 2.8	11.2500	24.85
SJRWMD 25Y-24H	Pond 2.8	11.5007	24.91
SJRWMD 25Y-24H	Pond 2.8	11.7505	25.03
SJRWMD 25Y-24H	Pond 2.8	12.0003	25.29
SJRWMD 25Y-24H	Pond 2.8	12.2505	25.65
SJRWMD 25Y-24H	Pond 2.8	12.5008	25.96
SJRWMD 25Y-24H	Pond 2.8	12.7503	26.15

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.8	13.0008	26.26
SJRWMD 25Y-24H	Pond 2.8	13.2523	26.30
SJRWMD 25Y-24H	Pond 2.8	13.5033	26.33
SJRWMD 25Y-24H	Pond 2.8	13.7515	26.35
SJRWMD 25Y-24H	Pond 2.8	14.0013	26.37
SJRWMD 25Y-24H	Pond 2.8	14.2519	26.38
SJRWMD 25Y-24H	Pond 2.8	14.5005	26.38
SJRWMD 25Y-24H	Pond 2.8	14.7503	26.39
SJRWMD 25Y-24H	Pond 2.8	15.0009	26.39
SJRWMD 25Y-24H	Pond 2.8	15.2502	26.39
SJRWMD 25Y-24H	Pond 2.8	15.5017	26.40
SJRWMD 25Y-24H	Pond 2.8	15.7506	26.40
SJRWMD 25Y-24H	Pond 2.8	16.0031	26.39
SJRWMD 25Y-24H	Pond 2.8	16.2537	26.39
SJRWMD 25Y-24H	Pond 2.8	16.5007	26.39
SJRWMD 25Y-24H	Pond 2.8	16.7535	26.38
SJRWMD 25Y-24H	Pond 2.8	17.0000	26.38
SJRWMD 25Y-24H	Pond 2.8	17.2518	26.37
SJRWMD 25Y-24H	Pond 2.8	17.5001	26.36
SJRWMD 25Y-24H	Pond 2.8	17.7530	26.36
SJRWMD 25Y-24H	Pond 2.8	18.0033	26.35
SJRWMD 25Y-24H	Pond 2.8	18.2511	26.34
SJRWMD 25Y-24H	Pond 2.8	18.5030	26.33
SJRWMD 25Y-24H	Pond 2.8	18.7501	26.33
SJRWMD 25Y-24H	Pond 2.8	19.0030	26.32
SJRWMD 25Y-24H	Pond 2.8	19.2512	26.31
SJRWMD 25Y-24H	Pond 2.8	19.5005	26.30
SJRWMD 25Y-24H	Pond 2.8	19.7521	26.29
SJRWMD 25Y-24H	Pond 2.8	20.0030	26.28
SJRWMD 25Y-24H	Pond 2.8	20.2516	26.27
SJRWMD 25Y-24H	Pond 2.8	20.5004	26.26
SJRWMD 25Y-24H	Pond 2.8	20.7526	26.25
SJRWMD 25Y-24H	Pond 2.8	21.0001	26.24
SJRWMD 25Y-24H	Pond 2.8	21.2527	26.23
SJRWMD 25Y-24H	Pond 2.8	21.5020	26.22
SJRWMD 25Y-24H	Pond 2.8	21.7503	26.22
SJRWMD 25Y-24H	Pond 2.8	22.0033	26.21
SJRWMD 25Y-24H	Pond 2.8	22.2501	26.20
SJRWMD 25Y-24H	Pond 2.8	22.5004	26.19
SJRWMD 25Y-24H	Pond 2.8	22.7513	26.18
SJRWMD 25Y-24H	Pond 2.8	23.0045	26.17
SJRWMD 25Y-24H	Pond 2.8	23.2526	26.16

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.8	23.5021	26.15
SJRWMD 25Y-24H	Pond 2.8	23.7507	26.14
SJRWMD 25Y-24H	Pond 2.8	24.0000	26.13
SJRWMD 25Y-24H	Pond 2.8	24.2532	26.12
SJRWMD 25Y-24H	Pond 2.8	24.5017	26.10
SJRWMD 25Y-24H	Pond 2.8	24.7520	26.08
SJRWMD 25Y-24H	Pond 2.8	25.0012	26.07
SJRWMD 25Y-24H	Pond 2.8	25.2526	26.05
SJRWMD 25Y-24H	Pond 2.8	25.5023	26.03
SJRWMD 25Y-24H	Pond 2.8	25.7547	26.02
SJRWMD 25Y-24H	Pond 2.8	26.0011	26.00
SJRWMD 25Y-24H	Pond 2.8	26.2537	25.98
SJRWMD 25Y-24H	Pond 2.8	26.5029	25.97
SJRWMD 25Y-24H	Pond 2.8	26.7538	25.95
SJRWMD 25Y-24H	Pond 2.8	27.0011	25.94
SJRWMD 25Y-24H	Pond 2.8	27.2548	25.92
SJRWMD 25Y-24H	Pond 2.8	27.5020	25.91
SJRWMD 25Y-24H	Pond 2.8	27.7548	25.89
SJRWMD 25Y-24H	Pond 2.8	28.0013	25.88
SJRWMD 25Y-24H	Pond 2.8	28.2535	25.86
SJRWMD 25Y-24H	Pond 2.8	28.5016	25.85
SJRWMD 25Y-24H	Pond 2.8	28.7515	25.84
SJRWMD 25Y-24H	Pond 2.8	29.0004	25.82
SJRWMD 25Y-24H	Pond 2.8	29.2516	25.81
SJRWMD 25Y-24H	Pond 2.8	29.5018	25.80
SJRWMD 25Y-24H	Pond 2.8	29.7525	25.78
SJRWMD 25Y-24H	Pond 2.8	30.0054	25.77
SJRWMD 25Y-24H	Pond 2.8	30.2505	25.76
SJRWMD 25Y-24H	Pond 2.8	30.5043	25.75
SJRWMD 25Y-24H	Pond 2.8	30.7532	25.73
SJRWMD 25Y-24H	Pond 2.8	31.0021	25.72
SJRWMD 25Y-24H	Pond 2.8	31.2549	25.71
SJRWMD 25Y-24H	Pond 2.8	31.5025	25.70
SJRWMD 25Y-24H	Pond 2.8	31.7502	25.69
SJRWMD 25Y-24H	Pond 2.8	32.0021	25.68
SJRWMD 25Y-24H	Pond 2.8	32.2504	25.67
SJRWMD 25Y-24H	Pond 2.8	32.5001	25.66
SJRWMD 25Y-24H	Pond 2.8	32.7563	25.65
SJRWMD 25Y-24H	Pond 2.8	33.0003	25.64
SJRWMD 25Y-24H	Pond 2.8	33.2512	25.63
SJRWMD 25Y-24H	Pond 2.8	33.5013	25.62
SJRWMD 25Y-24H	Pond 2.8	33.7507	25.61

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.8	34.0019	25.60
SJRWMD 25Y-24H	Pond 2.8	34.2502	25.59
SJRWMD 25Y-24H	Pond 2.8	34.5015	25.58
SJRWMD 25Y-24H	Pond 2.8	34.7524	25.57
SJRWMD 25Y-24H	Pond 2.8	35.0036	25.56
SJRWMD 25Y-24H	Pond 2.8	35.2512	25.55
SJRWMD 25Y-24H	Pond 2.8	35.5029	25.54
SJRWMD 25Y-24H	Pond 2.8	35.7535	25.53
SJRWMD 25Y-24H	Pond 2.8	36.0007	25.53
SJRWMD 25Y-24H	Pond 2.8	36.2520	25.52
SJRWMD 25Y-24H	Pond 2.8	36.5013	25.51
SJRWMD 25Y-24H	Pond 2.8	36.7539	25.50
SJRWMD 25Y-24H	Pond 2.8	37.0021	25.49
SJRWMD 25Y-24H	Pond 2.8	37.2508	25.48
SJRWMD 25Y-24H	Pond 2.8	37.5027	25.48
SJRWMD 25Y-24H	Pond 2.8	37.7520	25.47
SJRWMD 25Y-24H	Pond 2.8	38.0030	25.46
SJRWMD 25Y-24H	Pond 2.8	38.2514	25.45
SJRWMD 25Y-24H	Pond 2.8	38.5004	25.45
SJRWMD 25Y-24H	Pond 2.8	38.7508	25.44
SJRWMD 25Y-24H	Pond 2.8	39.0016	25.43
SJRWMD 25Y-24H	Pond 2.8	39.2518	25.43
SJRWMD 25Y-24H	Pond 2.8	39.5010	25.42
SJRWMD 25Y-24H	Pond 2.8	39.7535	25.41
SJRWMD 25Y-24H	Pond 2.8	40.0005	25.41
SJRWMD 25Y-24H	Pond 2.8	40.2502	25.40
SJRWMD 25Y-24H	Pond 2.8	40.5028	25.39
SJRWMD 25Y-24H	Pond 2.8	40.7505	25.39
SJRWMD 25Y-24H	Pond 2.8	41.0023	25.38
SJRWMD 25Y-24H	Pond 2.8	41.2500	25.37
SJRWMD 25Y-24H	Pond 2.8	41.5020	25.37
SJRWMD 25Y-24H	Pond 2.8	41.7535	25.36
SJRWMD 25Y-24H	Pond 2.8	42.0005	25.36
SJRWMD 25Y-24H	Pond 2.8	42.2512	25.35
SJRWMD 25Y-24H	Pond 2.8	42.5009	25.34
SJRWMD 25Y-24H	Pond 2.8	42.7524	25.34
SJRWMD 25Y-24H	Pond 2.8	43.0023	25.33
SJRWMD 25Y-24H	Pond 2.8	43.2505	25.33
SJRWMD 25Y-24H	Pond 2.8	43.5036	25.32
SJRWMD 25Y-24H	Pond 2.8	43.7535	25.32
SJRWMD 25Y-24H	Pond 2.8	44.0063	25.31
SJRWMD 25Y-24H	Pond 2.8	44.2549	25.31

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Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 2.8	44.5009	25.30
SJRWMD 25Y-24H	Pond 2.8	44.7519	25.30
SJRWMD 25Y-24H	Pond 2.8	45.0010	25.29
SJRWMD 25Y-24H	Pond 2.8	45.2513	25.29
SJRWMD 25Y-24H	Pond 2.8	45.5000	25.28
SJRWMD 25Y-24H	Pond 2.8	45.7505	25.28
SJRWMD 25Y-24H	Pond 2.8	46.0017	25.27
SJRWMD 25Y-24H	Pond 2.8	46.2524	25.27
SJRWMD 25Y-24H	Pond 2.8	46.5016	25.26
SJRWMD 25Y-24H	Pond 2.8	46.7545	25.26
SJRWMD 25Y-24H	Pond 2.8	47.0004	25.25
SJRWMD 25Y-24H	Pond 2.8	47.2538	25.25
SJRWMD 25Y-24H	Pond 2.8	47.5002	25.24
SJRWMD 25Y-24H	Pond 2.8	47.7505	25.24
SJRWMD 25Y-24H	Pond 2.8	48.0029	25.23

Alternative 3

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	0.0000	24.36
SJRWMD 25Y-24H	Exist Wet Pond	0.2511	24.33
SJRWMD 25Y-24H	Exist Wet Pond	0.5050	24.33
SJRWMD 25Y-24H	Exist Wet Pond	0.7527	24.33
SJRWMD 25Y-24H	Exist Wet Pond	1.0027	24.33
SJRWMD 25Y-24H	Exist Wet Pond	1.2527	24.33
SJRWMD 25Y-24H	Exist Wet Pond	1.5027	24.33
SJRWMD 25Y-24H	Exist Wet Pond	1.7527	24.33
SJRWMD 25Y-24H	Exist Wet Pond	2.0027	24.33
SJRWMD 25Y-24H	Exist Wet Pond	2.2527	24.33
SJRWMD 25Y-24H	Exist Wet Pond	2.5027	24.33
SJRWMD 25Y-24H	Exist Wet Pond	2.7507	24.33
SJRWMD 25Y-24H	Exist Wet Pond	3.0009	24.34
SJRWMD 25Y-24H	Exist Wet Pond	3.2501	24.34
SJRWMD 25Y-24H	Exist Wet Pond	3.5010	24.35
SJRWMD 25Y-24H	Exist Wet Pond	3.7512	24.35
SJRWMD 25Y-24H	Exist Wet Pond	4.0004	24.36
SJRWMD 25Y-24H	Exist Wet Pond	4.2508	24.36
SJRWMD 25Y-24H	Exist Wet Pond	4.5005	24.37
SJRWMD 25Y-24H	Exist Wet Pond	4.7540	24.38
SJRWMD 25Y-24H	Exist Wet Pond	5.0007	24.39
SJRWMD 25Y-24H	Exist Wet Pond	5.2516	24.40
SJRWMD 25Y-24H	Exist Wet Pond	5.5040	24.41
SJRWMD 25Y-24H	Exist Wet Pond	5.7514	24.42
SJRWMD 25Y-24H	Exist Wet Pond	6.0008	24.43
SJRWMD 25Y-24H	Exist Wet Pond	6.2516	24.44
SJRWMD 25Y-24H	Exist Wet Pond	6.5021	24.45
SJRWMD 25Y-24H	Exist Wet Pond	6.7514	24.47
SJRWMD 25Y-24H	Exist Wet Pond	7.0020	24.48
SJRWMD 25Y-24H	Exist Wet Pond	7.2502	24.50
SJRWMD 25Y-24H	Exist Wet Pond	7.5017	24.51
SJRWMD 25Y-24H	Exist Wet Pond	7.7523	24.53
SJRWMD 25Y-24H	Exist Wet Pond	8.0010	24.55
SJRWMD 25Y-24H	Exist Wet Pond	8.2513	24.56
SJRWMD 25Y-24H	Exist Wet Pond	8.5006	24.58
SJRWMD 25Y-24H	Exist Wet Pond	8.7500	24.61
SJRWMD 25Y-24H	Exist Wet Pond	9.0012	24.63
SJRWMD 25Y-24H	Exist Wet Pond	9.2501	24.65
SJRWMD 25Y-24H	Exist Wet Pond	9.5026	24.68
SJRWMD 25Y-24H	Exist Wet Pond	9.7522	24.71
SJRWMD 25Y-24H	Exist Wet Pond	10.0006	24.74
SJRWMD 25Y-24H	Exist Wet Pond	10.2504	24.77



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	10.5015	24.81
SJRWMD 25Y-24H	Exist Wet Pond	10.7512	24.86
SJRWMD 25Y-24H	Exist Wet Pond	11.0010	24.91
SJRWMD 25Y-24H	Exist Wet Pond	11.2507	24.96
SJRWMD 25Y-24H	Exist Wet Pond	11.5005	25.03
SJRWMD 25Y-24H	Exist Wet Pond	11.7504	25.18
SJRWMD 25Y-24H	Exist Wet Pond	12.0003	25.52
SJRWMD 25Y-24H	Exist Wet Pond	12.2506	25.94
SJRWMD 25Y-24H	Exist Wet Pond	12.5000	26.23
SJRWMD 25Y-24H	Exist Wet Pond	12.7513	26.39
SJRWMD 25Y-24H	Exist Wet Pond	13.0017	26.46
SJRWMD 25Y-24H	Exist Wet Pond	13.2501	26.49
SJRWMD 25Y-24H	Exist Wet Pond	13.5001	26.50
SJRWMD 25Y-24H	Exist Wet Pond	13.7542	26.50
SJRWMD 25Y-24H	Exist Wet Pond	14.0033	26.50
SJRWMD 25Y-24H	Exist Wet Pond	14.2513	26.49
SJRWMD 25Y-24H	Exist Wet Pond	14.5033	26.49
SJRWMD 25Y-24H	Exist Wet Pond	14.7510	26.48
SJRWMD 25Y-24H	Exist Wet Pond	15.0011	26.48
SJRWMD 25Y-24H	Exist Wet Pond	15.2507	26.47
SJRWMD 25Y-24H	Exist Wet Pond	15.5018	26.47
SJRWMD 25Y-24H	Exist Wet Pond	15.7511	26.46
SJRWMD 25Y-24H	Exist Wet Pond	16.0040	26.46
SJRWMD 25Y-24H	Exist Wet Pond	16.2505	26.45
SJRWMD 25Y-24H	Exist Wet Pond	16.5015	26.44
SJRWMD 25Y-24H	Exist Wet Pond	16.7530	26.44
SJRWMD 25Y-24H	Exist Wet Pond	17.0014	26.43
SJRWMD 25Y-24H	Exist Wet Pond	17.2525	26.43
SJRWMD 25Y-24H	Exist Wet Pond	17.5004	26.42
SJRWMD 25Y-24H	Exist Wet Pond	17.7523	26.41
SJRWMD 25Y-24H	Exist Wet Pond	18.0013	26.41
SJRWMD 25Y-24H	Exist Wet Pond	18.2539	26.40
SJRWMD 25Y-24H	Exist Wet Pond	18.5027	26.39
SJRWMD 25Y-24H	Exist Wet Pond	18.7532	26.39
SJRWMD 25Y-24H	Exist Wet Pond	19.0029	26.38
SJRWMD 25Y-24H	Exist Wet Pond	19.2514	26.37
SJRWMD 25Y-24H	Exist Wet Pond	19.5020	26.36
SJRWMD 25Y-24H	Exist Wet Pond	19.7509	26.36
SJRWMD 25Y-24H	Exist Wet Pond	20.0021	26.35
SJRWMD 25Y-24H	Exist Wet Pond	20.2523	26.34
SJRWMD 25Y-24H	Exist Wet Pond	20.5016	26.33
SJRWMD 25Y-24H	Exist Wet Pond	20.7514	26.32

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	21.0010	26.31
SJRWMD 25Y-24H	Exist Wet Pond	21.2511	26.30
SJRWMD 25Y-24H	Exist Wet Pond	21.5014	26.29
SJRWMD 25Y-24H	Exist Wet Pond	21.7543	26.29
SJRWMD 25Y-24H	Exist Wet Pond	22.0027	26.28
SJRWMD 25Y-24H	Exist Wet Pond	22.2507	26.27
SJRWMD 25Y-24H	Exist Wet Pond	22.5013	26.26
SJRWMD 25Y-24H	Exist Wet Pond	22.7505	26.25
SJRWMD 25Y-24H	Exist Wet Pond	23.0008	26.24
SJRWMD 25Y-24H	Exist Wet Pond	23.2514	26.23
SJRWMD 25Y-24H	Exist Wet Pond	23.5048	26.22
SJRWMD 25Y-24H	Exist Wet Pond	23.7530	26.21
SJRWMD 25Y-24H	Exist Wet Pond	24.0058	26.20
SJRWMD 25Y-24H	Exist Wet Pond	24.2525	26.19
SJRWMD 25Y-24H	Exist Wet Pond	24.5005	26.17
SJRWMD 25Y-24H	Exist Wet Pond	24.7509	26.15
SJRWMD 25Y-24H	Exist Wet Pond	25.0010	26.13
SJRWMD 25Y-24H	Exist Wet Pond	25.2528	26.11
SJRWMD 25Y-24H	Exist Wet Pond	25.5011	26.10
SJRWMD 25Y-24H	Exist Wet Pond	25.7521	26.08
SJRWMD 25Y-24H	Exist Wet Pond	26.0048	26.06
SJRWMD 25Y-24H	Exist Wet Pond	26.2533	26.04
SJRWMD 25Y-24H	Exist Wet Pond	26.5012	26.02
SJRWMD 25Y-24H	Exist Wet Pond	26.7528	26.01
SJRWMD 25Y-24H	Exist Wet Pond	27.0000	25.99
SJRWMD 25Y-24H	Exist Wet Pond	27.2548	25.97
SJRWMD 25Y-24H	Exist Wet Pond	27.5019	25.96
SJRWMD 25Y-24H	Exist Wet Pond	27.7527	25.94
SJRWMD 25Y-24H	Exist Wet Pond	28.0038	25.92
SJRWMD 25Y-24H	Exist Wet Pond	28.2507	25.91
SJRWMD 25Y-24H	Exist Wet Pond	28.5043	25.89
SJRWMD 25Y-24H	Exist Wet Pond	28.7527	25.87
SJRWMD 25Y-24H	Exist Wet Pond	29.0057	25.86
SJRWMD 25Y-24H	Exist Wet Pond	29.2535	25.84
SJRWMD 25Y-24H	Exist Wet Pond	29.5063	25.83
SJRWMD 25Y-24H	Exist Wet Pond	29.7537	25.81
SJRWMD 25Y-24H	Exist Wet Pond	30.0007	25.80
SJRWMD 25Y-24H	Exist Wet Pond	30.2501	25.78
SJRWMD 25Y-24H	Exist Wet Pond	30.5028	25.77
SJRWMD 25Y-24H	Exist Wet Pond	30.7502	25.76
SJRWMD 25Y-24H	Exist Wet Pond	31.0058	25.74
SJRWMD 25Y-24H	Exist Wet Pond	31.2520	25.73

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	31.5033	25.71
SJRWMD 25Y-24H	Exist Wet Pond	31.7520	25.70
SJRWMD 25Y-24H	Exist Wet Pond	32.0013	25.69
SJRWMD 25Y-24H	Exist Wet Pond	32.2519	25.67
SJRWMD 25Y-24H	Exist Wet Pond	32.5039	25.66
SJRWMD 25Y-24H	Exist Wet Pond	32.7509	25.65
SJRWMD 25Y-24H	Exist Wet Pond	33.0048	25.64
SJRWMD 25Y-24H	Exist Wet Pond	33.2510	25.62
SJRWMD 25Y-24H	Exist Wet Pond	33.5029	25.61
SJRWMD 25Y-24H	Exist Wet Pond	33.7511	25.60
SJRWMD 25Y-24H	Exist Wet Pond	34.0049	25.59
SJRWMD 25Y-24H	Exist Wet Pond	34.2520	25.58
SJRWMD 25Y-24H	Exist Wet Pond	34.5047	25.56
SJRWMD 25Y-24H	Exist Wet Pond	34.7525	25.55
SJRWMD 25Y-24H	Exist Wet Pond	35.0060	25.54
SJRWMD 25Y-24H	Exist Wet Pond	35.2506	25.53
SJRWMD 25Y-24H	Exist Wet Pond	35.5055	25.52
SJRWMD 25Y-24H	Exist Wet Pond	35.7524	25.51
SJRWMD 25Y-24H	Exist Wet Pond	36.0058	25.50
SJRWMD 25Y-24H	Exist Wet Pond	36.2518	25.49
SJRWMD 25Y-24H	Exist Wet Pond	36.5005	25.48
SJRWMD 25Y-24H	Exist Wet Pond	36.7506	25.47
SJRWMD 25Y-24H	Exist Wet Pond	37.0037	25.45
SJRWMD 25Y-24H	Exist Wet Pond	37.2527	25.44
SJRWMD 25Y-24H	Exist Wet Pond	37.5049	25.43
SJRWMD 25Y-24H	Exist Wet Pond	37.7513	25.42
SJRWMD 25Y-24H	Exist Wet Pond	38.0011	25.42
SJRWMD 25Y-24H	Exist Wet Pond	38.2505	25.41
SJRWMD 25Y-24H	Exist Wet Pond	38.5004	25.40
SJRWMD 25Y-24H	Exist Wet Pond	38.7514	25.39
SJRWMD 25Y-24H	Exist Wet Pond	39.0009	25.38
SJRWMD 25Y-24H	Exist Wet Pond	39.2522	25.37
SJRWMD 25Y-24H	Exist Wet Pond	39.5047	25.36
SJRWMD 25Y-24H	Exist Wet Pond	39.7519	25.35
SJRWMD 25Y-24H	Exist Wet Pond	40.0040	25.34
SJRWMD 25Y-24H	Exist Wet Pond	40.2523	25.33
SJRWMD 25Y-24H	Exist Wet Pond	40.5000	25.32
SJRWMD 25Y-24H	Exist Wet Pond	40.7500	25.32
SJRWMD 25Y-24H	Exist Wet Pond	41.0022	25.31
SJRWMD 25Y-24H	Exist Wet Pond	41.2529	25.30
SJRWMD 25Y-24H	Exist Wet Pond	41.5019	25.29
SJRWMD 25Y-24H	Exist Wet Pond	41.7518	25.28

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Exist Wet Pond	42.0045	25.27
SJRWMD 25Y-24H	Exist Wet Pond	42.2516	25.27
SJRWMD 25Y-24H	Exist Wet Pond	42.5004	25.26
SJRWMD 25Y-24H	Exist Wet Pond	42.7545	25.25
SJRWMD 25Y-24H	Exist Wet Pond	43.0028	25.24
SJRWMD 25Y-24H	Exist Wet Pond	43.2533	25.24
SJRWMD 25Y-24H	Exist Wet Pond	43.5009	25.23
SJRWMD 25Y-24H	Exist Wet Pond	43.7530	25.22
SJRWMD 25Y-24H	Exist Wet Pond	44.0055	25.22
SJRWMD 25Y-24H	Exist Wet Pond	44.2521	25.21
SJRWMD 25Y-24H	Exist Wet Pond	44.5009	25.20
SJRWMD 25Y-24H	Exist Wet Pond	44.7507	25.20
SJRWMD 25Y-24H	Exist Wet Pond	45.0049	25.19
SJRWMD 25Y-24H	Exist Wet Pond	45.2532	25.18
SJRWMD 25Y-24H	Exist Wet Pond	45.5058	25.18
SJRWMD 25Y-24H	Exist Wet Pond	45.7520	25.17
SJRWMD 25Y-24H	Exist Wet Pond	46.0035	25.16
SJRWMD 25Y-24H	Exist Wet Pond	46.2522	25.16
SJRWMD 25Y-24H	Exist Wet Pond	46.5055	25.15
SJRWMD 25Y-24H	Exist Wet Pond	46.7512	25.15
SJRWMD 25Y-24H	Exist Wet Pond	47.0052	25.14
SJRWMD 25Y-24H	Exist Wet Pond	47.2514	25.14
SJRWMD 25Y-24H	Exist Wet Pond	47.5034	25.13
SJRWMD 25Y-24H	Exist Wet Pond	47.7510	25.13
SJRWMD 25Y-24H	Exist Wet Pond	48.0024	25.12
SJRWMD 25Y-24H	Pond 3.1	0.0000	23.74
SJRWMD 25Y-24H	Pond 3.1	0.2511	23.74
SJRWMD 25Y-24H	Pond 3.1	0.5050	23.74
SJRWMD 25Y-24H	Pond 3.1	0.7527	23.74
SJRWMD 25Y-24H	Pond 3.1	1.0027	23.74
SJRWMD 25Y-24H	Pond 3.1	1.2527	23.74
SJRWMD 25Y-24H	Pond 3.1	1.5027	23.74
SJRWMD 25Y-24H	Pond 3.1	1.7527	23.74
SJRWMD 25Y-24H	Pond 3.1	2.0027	23.74
SJRWMD 25Y-24H	Pond 3.1	2.2527	23.74
SJRWMD 25Y-24H	Pond 3.1	2.5027	23.75
SJRWMD 25Y-24H	Pond 3.1	2.7507	23.75
SJRWMD 25Y-24H	Pond 3.1	3.0009	23.75
SJRWMD 25Y-24H	Pond 3.1	3.2501	23.75
SJRWMD 25Y-24H	Pond 3.1	3.5010	23.76
SJRWMD 25Y-24H	Pond 3.1	3.7512	23.76
SJRWMD 25Y-24H	Pond 3.1	4.0004	23.77

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.1	4.2508	23.77
SJRWMD 25Y-24H	Pond 3.1	4.5005	23.78
SJRWMD 25Y-24H	Pond 3.1	4.7540	23.79
SJRWMD 25Y-24H	Pond 3.1	5.0007	23.79
SJRWMD 25Y-24H	Pond 3.1	5.2516	23.80
SJRWMD 25Y-24H	Pond 3.1	5.5040	23.81
SJRWMD 25Y-24H	Pond 3.1	5.7514	23.82
SJRWMD 25Y-24H	Pond 3.1	6.0008	23.83
SJRWMD 25Y-24H	Pond 3.1	6.2516	23.84
SJRWMD 25Y-24H	Pond 3.1	6.5021	23.85
SJRWMD 25Y-24H	Pond 3.1	6.7514	23.86
SJRWMD 25Y-24H	Pond 3.1	7.0020	23.87
SJRWMD 25Y-24H	Pond 3.1	7.2502	23.89
SJRWMD 25Y-24H	Pond 3.1	7.5017	23.90
SJRWMD 25Y-24H	Pond 3.1	7.7523	23.92
SJRWMD 25Y-24H	Pond 3.1	8.0010	23.93
SJRWMD 25Y-24H	Pond 3.1	8.2513	23.95
SJRWMD 25Y-24H	Pond 3.1	8.5006	23.97
SJRWMD 25Y-24H	Pond 3.1	8.7500	23.99
SJRWMD 25Y-24H	Pond 3.1	9.0012	24.01
SJRWMD 25Y-24H	Pond 3.1	9.2501	24.03
SJRWMD 25Y-24H	Pond 3.1	9.5026	24.05
SJRWMD 25Y-24H	Pond 3.1	9.7522	24.08
SJRWMD 25Y-24H	Pond 3.1	10.0006	24.10
SJRWMD 25Y-24H	Pond 3.1	10.2504	24.13
SJRWMD 25Y-24H	Pond 3.1	10.5015	24.17
SJRWMD 25Y-24H	Pond 3.1	10.7512	24.21
SJRWMD 25Y-24H	Pond 3.1	11.0010	24.25
SJRWMD 25Y-24H	Pond 3.1	11.2507	24.30
SJRWMD 25Y-24H	Pond 3.1	11.5005	24.36
SJRWMD 25Y-24H	Pond 3.1	11.7504	24.53
SJRWMD 25Y-24H	Pond 3.1	12.0003	24.91
SJRWMD 25Y-24H	Pond 3.1	12.2506	25.36
SJRWMD 25Y-24H	Pond 3.1	12.5000	25.64
SJRWMD 25Y-24H	Pond 3.1	12.7513	25.80
SJRWMD 25Y-24H	Pond 3.1	13.0017	25.90
SJRWMD 25Y-24H	Pond 3.1	13.2501	25.97
SJRWMD 25Y-24H	Pond 3.1	13.5001	26.02
SJRWMD 25Y-24H	Pond 3.1	13.7542	26.07
SJRWMD 25Y-24H	Pond 3.1	14.0033	26.11
SJRWMD 25Y-24H	Pond 3.1	14.2513	26.14
SJRWMD 25Y-24H	Pond 3.1	14.5033	26.17

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.1	14.7510	26.19
SJRWMD 25Y-24H	Pond 3.1	15.0011	26.21
SJRWMD 25Y-24H	Pond 3.1	15.2507	26.22
SJRWMD 25Y-24H	Pond 3.1	15.5018	26.23
SJRWMD 25Y-24H	Pond 3.1	15.7511	26.24
SJRWMD 25Y-24H	Pond 3.1	16.0040	26.25
SJRWMD 25Y-24H	Pond 3.1	16.2505	26.25
SJRWMD 25Y-24H	Pond 3.1	16.5015	26.26
SJRWMD 25Y-24H	Pond 3.1	16.7530	26.26
SJRWMD 25Y-24H	Pond 3.1	17.0014	26.26
SJRWMD 25Y-24H	Pond 3.1	17.2525	26.26
SJRWMD 25Y-24H	Pond 3.1	17.5004	26.26
SJRWMD 25Y-24H	Pond 3.1	17.7523	26.25
SJRWMD 25Y-24H	Pond 3.1	18.0013	26.25
SJRWMD 25Y-24H	Pond 3.1	18.2539	26.24
SJRWMD 25Y-24H	Pond 3.1	18.5027	26.24
SJRWMD 25Y-24H	Pond 3.1	18.7532	26.24
SJRWMD 25Y-24H	Pond 3.1	19.0029	26.23
SJRWMD 25Y-24H	Pond 3.1	19.2514	26.22
SJRWMD 25Y-24H	Pond 3.1	19.5020	26.22
SJRWMD 25Y-24H	Pond 3.1	19.7509	26.21
SJRWMD 25Y-24H	Pond 3.1	20.0021	26.21
SJRWMD 25Y-24H	Pond 3.1	20.2523	26.20
SJRWMD 25Y-24H	Pond 3.1	20.5016	26.19
SJRWMD 25Y-24H	Pond 3.1	20.7514	26.18
SJRWMD 25Y-24H	Pond 3.1	21.0010	26.18
SJRWMD 25Y-24H	Pond 3.1	21.2511	26.17
SJRWMD 25Y-24H	Pond 3.1	21.5014	26.16
SJRWMD 25Y-24H	Pond 3.1	21.7543	26.15
SJRWMD 25Y-24H	Pond 3.1	22.0027	26.15
SJRWMD 25Y-24H	Pond 3.1	22.2507	26.14
SJRWMD 25Y-24H	Pond 3.1	22.5013	26.13
SJRWMD 25Y-24H	Pond 3.1	22.7505	26.12
SJRWMD 25Y-24H	Pond 3.1	23.0008	26.11
SJRWMD 25Y-24H	Pond 3.1	23.2514	26.11
SJRWMD 25Y-24H	Pond 3.1	23.5048	26.10
SJRWMD 25Y-24H	Pond 3.1	23.7530	26.09
SJRWMD 25Y-24H	Pond 3.1	24.0058	26.08
SJRWMD 25Y-24H	Pond 3.1	24.2525	26.07
SJRWMD 25Y-24H	Pond 3.1	24.5005	26.05
SJRWMD 25Y-24H	Pond 3.1	24.7509	26.03
SJRWMD 25Y-24H	Pond 3.1	25.0010	26.02

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.1	25.2528	26.00
SJRWMD 25Y-24H	Pond 3.1	25.5011	25.98
SJRWMD 25Y-24H	Pond 3.1	25.7521	25.97
SJRWMD 25Y-24H	Pond 3.1	26.0048	25.95
SJRWMD 25Y-24H	Pond 3.1	26.2533	25.94
SJRWMD 25Y-24H	Pond 3.1	26.5012	25.92
SJRWMD 25Y-24H	Pond 3.1	26.7528	25.90
SJRWMD 25Y-24H	Pond 3.1	27.0000	25.89
SJRWMD 25Y-24H	Pond 3.1	27.2548	25.87
SJRWMD 25Y-24H	Pond 3.1	27.5019	25.86
SJRWMD 25Y-24H	Pond 3.1	27.7527	25.84
SJRWMD 25Y-24H	Pond 3.1	28.0038	25.83
SJRWMD 25Y-24H	Pond 3.1	28.2507	25.81
SJRWMD 25Y-24H	Pond 3.1	28.5043	25.80
SJRWMD 25Y-24H	Pond 3.1	28.7527	25.79
SJRWMD 25Y-24H	Pond 3.1	29.0057	25.77
SJRWMD 25Y-24H	Pond 3.1	29.2535	25.76
SJRWMD 25Y-24H	Pond 3.1	29.5063	25.74
SJRWMD 25Y-24H	Pond 3.1	29.7537	25.73
SJRWMD 25Y-24H	Pond 3.1	30.0007	25.72
SJRWMD 25Y-24H	Pond 3.1	30.2501	25.70
SJRWMD 25Y-24H	Pond 3.1	30.5028	25.69
SJRWMD 25Y-24H	Pond 3.1	30.7502	25.68
SJRWMD 25Y-24H	Pond 3.1	31.0058	25.66
SJRWMD 25Y-24H	Pond 3.1	31.2520	25.65
SJRWMD 25Y-24H	Pond 3.1	31.5033	25.64
SJRWMD 25Y-24H	Pond 3.1	31.7520	25.63
SJRWMD 25Y-24H	Pond 3.1	32.0013	25.61
SJRWMD 25Y-24H	Pond 3.1	32.2519	25.60
SJRWMD 25Y-24H	Pond 3.1	32.5039	25.59
SJRWMD 25Y-24H	Pond 3.1	32.7509	25.58
SJRWMD 25Y-24H	Pond 3.1	33.0048	25.57
SJRWMD 25Y-24H	Pond 3.1	33.2510	25.55
SJRWMD 25Y-24H	Pond 3.1	33.5029	25.54
SJRWMD 25Y-24H	Pond 3.1	33.7511	25.53
SJRWMD 25Y-24H	Pond 3.1	34.0049	25.52
SJRWMD 25Y-24H	Pond 3.1	34.2520	25.51
SJRWMD 25Y-24H	Pond 3.1	34.5047	25.50
SJRWMD 25Y-24H	Pond 3.1	34.7525	25.49
SJRWMD 25Y-24H	Pond 3.1	35.0060	25.47
SJRWMD 25Y-24H	Pond 3.1	35.2506	25.46
SJRWMD 25Y-24H	Pond 3.1	35.5055	25.45

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.1	35.7524	25.44
SJRWMD 25Y-24H	Pond 3.1	36.0058	25.43
SJRWMD 25Y-24H	Pond 3.1	36.2518	25.42
SJRWMD 25Y-24H	Pond 3.1	36.5005	25.41
SJRWMD 25Y-24H	Pond 3.1	36.7506	25.40
SJRWMD 25Y-24H	Pond 3.1	37.0037	25.39
SJRWMD 25Y-24H	Pond 3.1	37.2527	25.38
SJRWMD 25Y-24H	Pond 3.1	37.5049	25.37
SJRWMD 25Y-24H	Pond 3.1	37.7513	25.36
SJRWMD 25Y-24H	Pond 3.1	38.0011	25.35
SJRWMD 25Y-24H	Pond 3.1	38.2505	25.34
SJRWMD 25Y-24H	Pond 3.1	38.5004	25.33
SJRWMD 25Y-24H	Pond 3.1	38.7514	25.32
SJRWMD 25Y-24H	Pond 3.1	39.0009	25.31
SJRWMD 25Y-24H	Pond 3.1	39.2522	25.31
SJRWMD 25Y-24H	Pond 3.1	39.5047	25.30
SJRWMD 25Y-24H	Pond 3.1	39.7519	25.29
SJRWMD 25Y-24H	Pond 3.1	40.0040	25.28
SJRWMD 25Y-24H	Pond 3.1	40.2523	25.27
SJRWMD 25Y-24H	Pond 3.1	40.5000	25.26
SJRWMD 25Y-24H	Pond 3.1	40.7500	25.25
SJRWMD 25Y-24H	Pond 3.1	41.0022	25.24
SJRWMD 25Y-24H	Pond 3.1	41.2529	25.23
SJRWMD 25Y-24H	Pond 3.1	41.5019	25.23
SJRWMD 25Y-24H	Pond 3.1	41.7518	25.22
SJRWMD 25Y-24H	Pond 3.1	42.0045	25.21
SJRWMD 25Y-24H	Pond 3.1	42.2516	25.20
SJRWMD 25Y-24H	Pond 3.1	42.5004	25.19
SJRWMD 25Y-24H	Pond 3.1	42.7545	25.18
SJRWMD 25Y-24H	Pond 3.1	43.0028	25.18
SJRWMD 25Y-24H	Pond 3.1	43.2533	25.17
SJRWMD 25Y-24H	Pond 3.1	43.5009	25.16
SJRWMD 25Y-24H	Pond 3.1	43.7530	25.15
SJRWMD 25Y-24H	Pond 3.1	44.0055	25.14
SJRWMD 25Y-24H	Pond 3.1	44.2521	25.14
SJRWMD 25Y-24H	Pond 3.1	44.5009	25.13
SJRWMD 25Y-24H	Pond 3.1	44.7507	25.12
SJRWMD 25Y-24H	Pond 3.1	45.0049	25.11
SJRWMD 25Y-24H	Pond 3.1	45.2532	25.10
SJRWMD 25Y-24H	Pond 3.1	45.5058	25.10
SJRWMD 25Y-24H	Pond 3.1	45.7520	25.09
SJRWMD 25Y-24H	Pond 3.1	46.0035	25.08



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.1	46.2522	25.07
SJRWMD 25Y-24H	Pond 3.1	46.5055	25.07
SJRWMD 25Y-24H	Pond 3.1	46.7512	25.06
SJRWMD 25Y-24H	Pond 3.1	47.0052	25.05
SJRWMD 25Y-24H	Pond 3.1	47.2514	25.04
SJRWMD 25Y-24H	Pond 3.1	47.5034	25.04
SJRWMD 25Y-24H	Pond 3.1	47.7510	25.03
SJRWMD 25Y-24H	Pond 3.1	48.0024	25.02
SJRWMD 25Y-24H	Pond 3.2	0.0000	23.74
SJRWMD 25Y-24H	Pond 3.2	0.2511	23.74
SJRWMD 25Y-24H	Pond 3.2	0.5050	23.74
SJRWMD 25Y-24H	Pond 3.2	0.7527	23.74
SJRWMD 25Y-24H	Pond 3.2	1.0027	23.74
SJRWMD 25Y-24H	Pond 3.2	1.2527	23.74
SJRWMD 25Y-24H	Pond 3.2	1.5027	23.74
SJRWMD 25Y-24H	Pond 3.2	1.7527	23.74
SJRWMD 25Y-24H	Pond 3.2	2.0027	23.74
SJRWMD 25Y-24H	Pond 3.2	2.2527	23.74
SJRWMD 25Y-24H	Pond 3.2	2.5027	23.74
SJRWMD 25Y-24H	Pond 3.2	2.7507	23.75
SJRWMD 25Y-24H	Pond 3.2	3.0009	23.75
SJRWMD 25Y-24H	Pond 3.2	3.2501	23.75
SJRWMD 25Y-24H	Pond 3.2	3.5010	23.76
SJRWMD 25Y-24H	Pond 3.2	3.7512	23.76
SJRWMD 25Y-24H	Pond 3.2	4.0004	23.77
SJRWMD 25Y-24H	Pond 3.2	4.2508	23.77
SJRWMD 25Y-24H	Pond 3.2	4.5005	23.78
SJRWMD 25Y-24H	Pond 3.2	4.7540	23.79
SJRWMD 25Y-24H	Pond 3.2	5.0007	23.79
SJRWMD 25Y-24H	Pond 3.2	5.2516	23.80
SJRWMD 25Y-24H	Pond 3.2	5.5040	23.81
SJRWMD 25Y-24H	Pond 3.2	5.7514	23.82
SJRWMD 25Y-24H	Pond 3.2	6.0008	23.83
SJRWMD 25Y-24H	Pond 3.2	6.2516	23.84
SJRWMD 25Y-24H	Pond 3.2	6.5021	23.85
SJRWMD 25Y-24H	Pond 3.2	6.7514	23.86
SJRWMD 25Y-24H	Pond 3.2	7.0020	23.87
SJRWMD 25Y-24H	Pond 3.2	7.2502	23.89
SJRWMD 25Y-24H	Pond 3.2	7.5017	23.90
SJRWMD 25Y-24H	Pond 3.2	7.7523	23.91
SJRWMD 25Y-24H	Pond 3.2	8.0010	23.93
SJRWMD 25Y-24H	Pond 3.2	8.2513	23.95

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.2	8.5006	23.96
SJRWMD 25Y-24H	Pond 3.2	8.7500	23.98
SJRWMD 25Y-24H	Pond 3.2	9.0012	24.00
SJRWMD 25Y-24H	Pond 3.2	9.2501	24.03
SJRWMD 25Y-24H	Pond 3.2	9.5026	24.05
SJRWMD 25Y-24H	Pond 3.2	9.7522	24.07
SJRWMD 25Y-24H	Pond 3.2	10.0006	24.10
SJRWMD 25Y-24H	Pond 3.2	10.2504	24.13
SJRWMD 25Y-24H	Pond 3.2	10.5015	24.16
SJRWMD 25Y-24H	Pond 3.2	10.7512	24.20
SJRWMD 25Y-24H	Pond 3.2	11.0010	24.25
SJRWMD 25Y-24H	Pond 3.2	11.2507	24.29
SJRWMD 25Y-24H	Pond 3.2	11.5005	24.35
SJRWMD 25Y-24H	Pond 3.2	11.7504	24.48
SJRWMD 25Y-24H	Pond 3.2	12.0003	24.75
SJRWMD 25Y-24H	Pond 3.2	12.2506	25.13
SJRWMD 25Y-24H	Pond 3.2	12.5000	25.47
SJRWMD 25Y-24H	Pond 3.2	12.7513	25.70
SJRWMD 25Y-24H	Pond 3.2	13.0017	25.83
SJRWMD 25Y-24H	Pond 3.2	13.2501	25.91
SJRWMD 25Y-24H	Pond 3.2	13.5001	25.97
SJRWMD 25Y-24H	Pond 3.2	13.7542	26.02
SJRWMD 25Y-24H	Pond 3.2	14.0033	26.06
SJRWMD 25Y-24H	Pond 3.2	14.2513	26.09
SJRWMD 25Y-24H	Pond 3.2	14.5033	26.12
SJRWMD 25Y-24H	Pond 3.2	14.7510	26.14
SJRWMD 25Y-24H	Pond 3.2	15.0011	26.16
SJRWMD 25Y-24H	Pond 3.2	15.2507	26.18
SJRWMD 25Y-24H	Pond 3.2	15.5018	26.19
SJRWMD 25Y-24H	Pond 3.2	15.7511	26.20
SJRWMD 25Y-24H	Pond 3.2	16.0040	26.21
SJRWMD 25Y-24H	Pond 3.2	16.2505	26.21
SJRWMD 25Y-24H	Pond 3.2	16.5015	26.22
SJRWMD 25Y-24H	Pond 3.2	16.7530	26.22
SJRWMD 25Y-24H	Pond 3.2	17.0014	26.22
SJRWMD 25Y-24H	Pond 3.2	17.2525	26.22
SJRWMD 25Y-24H	Pond 3.2	17.5004	26.22
SJRWMD 25Y-24H	Pond 3.2	17.7523	26.22
SJRWMD 25Y-24H	Pond 3.2	18.0013	26.21
SJRWMD 25Y-24H	Pond 3.2	18.2539	26.21
SJRWMD 25Y-24H	Pond 3.2	18.5027	26.21
SJRWMD 25Y-24H	Pond 3.2	18.7532	26.20

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.2	19.0029	26.20
SJRWMD 25Y-24H	Pond 3.2	19.2514	26.19
SJRWMD 25Y-24H	Pond 3.2	19.5020	26.18
SJRWMD 25Y-24H	Pond 3.2	19.7509	26.18
SJRWMD 25Y-24H	Pond 3.2	20.0021	26.17
SJRWMD 25Y-24H	Pond 3.2	20.2523	26.17
SJRWMD 25Y-24H	Pond 3.2	20.5016	26.16
SJRWMD 25Y-24H	Pond 3.2	20.7514	26.15
SJRWMD 25Y-24H	Pond 3.2	21.0010	26.15
SJRWMD 25Y-24H	Pond 3.2	21.2511	26.14
SJRWMD 25Y-24H	Pond 3.2	21.5014	26.13
SJRWMD 25Y-24H	Pond 3.2	21.7543	26.12
SJRWMD 25Y-24H	Pond 3.2	22.0027	26.12
SJRWMD 25Y-24H	Pond 3.2	22.2507	26.11
SJRWMD 25Y-24H	Pond 3.2	22.5013	26.10
SJRWMD 25Y-24H	Pond 3.2	22.7505	26.09
SJRWMD 25Y-24H	Pond 3.2	23.0008	26.09
SJRWMD 25Y-24H	Pond 3.2	23.2514	26.08
SJRWMD 25Y-24H	Pond 3.2	23.5048	26.07
SJRWMD 25Y-24H	Pond 3.2	23.7530	26.06
SJRWMD 25Y-24H	Pond 3.2	24.0058	26.05
SJRWMD 25Y-24H	Pond 3.2	24.2525	26.04
SJRWMD 25Y-24H	Pond 3.2	24.5005	26.03
SJRWMD 25Y-24H	Pond 3.2	24.7509	26.01
SJRWMD 25Y-24H	Pond 3.2	25.0010	26.00
SJRWMD 25Y-24H	Pond 3.2	25.2528	25.98
SJRWMD 25Y-24H	Pond 3.2	25.5011	25.96
SJRWMD 25Y-24H	Pond 3.2	25.7521	25.95
SJRWMD 25Y-24H	Pond 3.2	26.0048	25.93
SJRWMD 25Y-24H	Pond 3.2	26.2533	25.92
SJRWMD 25Y-24H	Pond 3.2	26.5012	25.90
SJRWMD 25Y-24H	Pond 3.2	26.7528	25.89
SJRWMD 25Y-24H	Pond 3.2	27.0000	25.87
SJRWMD 25Y-24H	Pond 3.2	27.2548	25.86
SJRWMD 25Y-24H	Pond 3.2	27.5019	25.84
SJRWMD 25Y-24H	Pond 3.2	27.7527	25.83
SJRWMD 25Y-24H	Pond 3.2	28.0038	25.81
SJRWMD 25Y-24H	Pond 3.2	28.2507	25.80
SJRWMD 25Y-24H	Pond 3.2	28.5043	25.79
SJRWMD 25Y-24H	Pond 3.2	28.7527	25.77
SJRWMD 25Y-24H	Pond 3.2	29.0057	25.76
SJRWMD 25Y-24H	Pond 3.2	29.2535	25.74

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.2	29.5063	25.73
SJRWMD 25Y-24H	Pond 3.2	29.7537	25.72
SJRWMD 25Y-24H	Pond 3.2	30.0007	25.70
SJRWMD 25Y-24H	Pond 3.2	30.2501	25.69
SJRWMD 25Y-24H	Pond 3.2	30.5028	25.68
SJRWMD 25Y-24H	Pond 3.2	30.7502	25.67
SJRWMD 25Y-24H	Pond 3.2	31.0058	25.65
SJRWMD 25Y-24H	Pond 3.2	31.2520	25.64
SJRWMD 25Y-24H	Pond 3.2	31.5033	25.63
SJRWMD 25Y-24H	Pond 3.2	31.7520	25.62
SJRWMD 25Y-24H	Pond 3.2	32.0013	25.60
SJRWMD 25Y-24H	Pond 3.2	32.2519	25.59
SJRWMD 25Y-24H	Pond 3.2	32.5039	25.58
SJRWMD 25Y-24H	Pond 3.2	32.7509	25.57
SJRWMD 25Y-24H	Pond 3.2	33.0048	25.56
SJRWMD 25Y-24H	Pond 3.2	33.2510	25.54
SJRWMD 25Y-24H	Pond 3.2	33.5029	25.53
SJRWMD 25Y-24H	Pond 3.2	33.7511	25.52
SJRWMD 25Y-24H	Pond 3.2	34.0049	25.51
SJRWMD 25Y-24H	Pond 3.2	34.2520	25.50
SJRWMD 25Y-24H	Pond 3.2	34.5047	25.49
SJRWMD 25Y-24H	Pond 3.2	34.7525	25.48
SJRWMD 25Y-24H	Pond 3.2	35.0060	25.47
SJRWMD 25Y-24H	Pond 3.2	35.2506	25.46
SJRWMD 25Y-24H	Pond 3.2	35.5055	25.45
SJRWMD 25Y-24H	Pond 3.2	35.7524	25.44
SJRWMD 25Y-24H	Pond 3.2	36.0058	25.43
SJRWMD 25Y-24H	Pond 3.2	36.2518	25.42
SJRWMD 25Y-24H	Pond 3.2	36.5005	25.41
SJRWMD 25Y-24H	Pond 3.2	36.7506	25.40
SJRWMD 25Y-24H	Pond 3.2	37.0037	25.38
SJRWMD 25Y-24H	Pond 3.2	37.2527	25.38
SJRWMD 25Y-24H	Pond 3.2	37.5049	25.37
SJRWMD 25Y-24H	Pond 3.2	37.7513	25.36
SJRWMD 25Y-24H	Pond 3.2	38.0011	25.35
SJRWMD 25Y-24H	Pond 3.2	38.2505	25.34
SJRWMD 25Y-24H	Pond 3.2	38.5004	25.33
SJRWMD 25Y-24H	Pond 3.2	38.7514	25.32
SJRWMD 25Y-24H	Pond 3.2	39.0009	25.31
SJRWMD 25Y-24H	Pond 3.2	39.2522	25.30
SJRWMD 25Y-24H	Pond 3.2	39.5047	25.29
SJRWMD 25Y-24H	Pond 3.2	39.7519	25.28

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.2	40.0040	25.27
SJRWMD 25Y-24H	Pond 3.2	40.2523	25.26
SJRWMD 25Y-24H	Pond 3.2	40.5000	25.26
SJRWMD 25Y-24H	Pond 3.2	40.7500	25.25
SJRWMD 25Y-24H	Pond 3.2	41.0022	25.24
SJRWMD 25Y-24H	Pond 3.2	41.2529	25.23
SJRWMD 25Y-24H	Pond 3.2	41.5019	25.22
SJRWMD 25Y-24H	Pond 3.2	41.7518	25.21
SJRWMD 25Y-24H	Pond 3.2	42.0045	25.20
SJRWMD 25Y-24H	Pond 3.2	42.2516	25.20
SJRWMD 25Y-24H	Pond 3.2	42.5004	25.19
SJRWMD 25Y-24H	Pond 3.2	42.7545	25.18
SJRWMD 25Y-24H	Pond 3.2	43.0028	25.17
SJRWMD 25Y-24H	Pond 3.2	43.2533	25.16
SJRWMD 25Y-24H	Pond 3.2	43.5009	25.16
SJRWMD 25Y-24H	Pond 3.2	43.7530	25.15
SJRWMD 25Y-24H	Pond 3.2	44.0055	25.14
SJRWMD 25Y-24H	Pond 3.2	44.2521	25.13
SJRWMD 25Y-24H	Pond 3.2	44.5009	25.12
SJRWMD 25Y-24H	Pond 3.2	44.7507	25.12
SJRWMD 25Y-24H	Pond 3.2	45.0049	25.11
SJRWMD 25Y-24H	Pond 3.2	45.2532	25.10
SJRWMD 25Y-24H	Pond 3.2	45.5058	25.09
SJRWMD 25Y-24H	Pond 3.2	45.7520	25.09
SJRWMD 25Y-24H	Pond 3.2	46.0035	25.08
SJRWMD 25Y-24H	Pond 3.2	46.2522	25.07
SJRWMD 25Y-24H	Pond 3.2	46.5055	25.06
SJRWMD 25Y-24H	Pond 3.2	46.7512	25.06
SJRWMD 25Y-24H	Pond 3.2	47.0052	25.05
SJRWMD 25Y-24H	Pond 3.2	47.2514	25.04
SJRWMD 25Y-24H	Pond 3.2	47.5034	25.03
SJRWMD 25Y-24H	Pond 3.2	47.7510	25.03
SJRWMD 25Y-24H	Pond 3.2	48.0024	25.02
SJRWMD 25Y-24H	Pond 3.3	0.0000	24.29
SJRWMD 25Y-24H	Pond 3.3	0.2511	24.29
SJRWMD 25Y-24H	Pond 3.3	0.5050	24.29
SJRWMD 25Y-24H	Pond 3.3	0.7527	24.29
SJRWMD 25Y-24H	Pond 3.3	1.0027	24.29
SJRWMD 25Y-24H	Pond 3.3	1.2527	24.29
SJRWMD 25Y-24H	Pond 3.3	1.5027	24.29
SJRWMD 25Y-24H	Pond 3.3	1.7527	24.29
SJRWMD 25Y-24H	Pond 3.3	2.0027	24.29

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.3	2.2527	24.29
SJRWMD 25Y-24H	Pond 3.3	2.5027	24.29
SJRWMD 25Y-24H	Pond 3.3	2.7507	24.30
SJRWMD 25Y-24H	Pond 3.3	3.0009	24.30
SJRWMD 25Y-24H	Pond 3.3	3.2501	24.31
SJRWMD 25Y-24H	Pond 3.3	3.5010	24.31
SJRWMD 25Y-24H	Pond 3.3	3.7512	24.32
SJRWMD 25Y-24H	Pond 3.3	4.0004	24.32
SJRWMD 25Y-24H	Pond 3.3	4.2508	24.33
SJRWMD 25Y-24H	Pond 3.3	4.5005	24.34
SJRWMD 25Y-24H	Pond 3.3	4.7540	24.34
SJRWMD 25Y-24H	Pond 3.3	5.0007	24.35
SJRWMD 25Y-24H	Pond 3.3	5.2516	24.36
SJRWMD 25Y-24H	Pond 3.3	5.5040	24.37
SJRWMD 25Y-24H	Pond 3.3	5.7514	24.38
SJRWMD 25Y-24H	Pond 3.3	6.0008	24.39
SJRWMD 25Y-24H	Pond 3.3	6.2516	24.40
SJRWMD 25Y-24H	Pond 3.3	6.5021	24.42
SJRWMD 25Y-24H	Pond 3.3	6.7514	24.43
SJRWMD 25Y-24H	Pond 3.3	7.0020	24.44
SJRWMD 25Y-24H	Pond 3.3	7.2502	24.46
SJRWMD 25Y-24H	Pond 3.3	7.5017	24.47
SJRWMD 25Y-24H	Pond 3.3	7.7523	24.49
SJRWMD 25Y-24H	Pond 3.3	8.0010	24.51
SJRWMD 25Y-24H	Pond 3.3	8.2513	24.52
SJRWMD 25Y-24H	Pond 3.3	8.5006	24.54
SJRWMD 25Y-24H	Pond 3.3	8.7500	24.56
SJRWMD 25Y-24H	Pond 3.3	9.0012	24.59
SJRWMD 25Y-24H	Pond 3.3	9.2501	24.61
SJRWMD 25Y-24H	Pond 3.3	9.5026	24.64
SJRWMD 25Y-24H	Pond 3.3	9.7522	24.66
SJRWMD 25Y-24H	Pond 3.3	10.0006	24.69
SJRWMD 25Y-24H	Pond 3.3	10.2504	24.73
SJRWMD 25Y-24H	Pond 3.3	10.5015	24.76
SJRWMD 25Y-24H	Pond 3.3	10.7512	24.81
SJRWMD 25Y-24H	Pond 3.3	11.0010	24.85
SJRWMD 25Y-24H	Pond 3.3	11.2507	24.91
SJRWMD 25Y-24H	Pond 3.3	11.5005	24.97
SJRWMD 25Y-24H	Pond 3.3	11.7504	25.14
SJRWMD 25Y-24H	Pond 3.3	12.0003	25.51
SJRWMD 25Y-24H	Pond 3.3	12.2506	25.94
SJRWMD 25Y-24H	Pond 3.3	12.5000	26.21

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.3	12.7513	26.35
SJRWMD 25Y-24H	Pond 3.3	13.0017	26.41
SJRWMD 25Y-24H	Pond 3.3	13.2501	26.45
SJRWMD 25Y-24H	Pond 3.3	13.5001	26.47
SJRWMD 25Y-24H	Pond 3.3	13.7542	26.48
SJRWMD 25Y-24H	Pond 3.3	14.0033	26.49
SJRWMD 25Y-24H	Pond 3.3	14.2513	26.49
SJRWMD 25Y-24H	Pond 3.3	14.5033	26.49
SJRWMD 25Y-24H	Pond 3.3	14.7510	26.49
SJRWMD 25Y-24H	Pond 3.3	15.0011	26.48
SJRWMD 25Y-24H	Pond 3.3	15.2507	26.47
SJRWMD 25Y-24H	Pond 3.3	15.5018	26.47
SJRWMD 25Y-24H	Pond 3.3	15.7511	26.46
SJRWMD 25Y-24H	Pond 3.3	16.0040	26.45
SJRWMD 25Y-24H	Pond 3.3	16.2505	26.44
SJRWMD 25Y-24H	Pond 3.3	16.5015	26.42
SJRWMD 25Y-24H	Pond 3.3	16.7530	26.41
SJRWMD 25Y-24H	Pond 3.3	17.0014	26.40
SJRWMD 25Y-24H	Pond 3.3	17.2525	26.39
SJRWMD 25Y-24H	Pond 3.3	17.5004	26.38
SJRWMD 25Y-24H	Pond 3.3	17.7523	26.36
SJRWMD 25Y-24H	Pond 3.3	18.0013	26.35
SJRWMD 25Y-24H	Pond 3.3	18.2539	26.33
SJRWMD 25Y-24H	Pond 3.3	18.5027	26.32
SJRWMD 25Y-24H	Pond 3.3	18.7532	26.31
SJRWMD 25Y-24H	Pond 3.3	19.0029	26.29
SJRWMD 25Y-24H	Pond 3.3	19.2514	26.28
SJRWMD 25Y-24H	Pond 3.3	19.5020	26.27
SJRWMD 25Y-24H	Pond 3.3	19.7509	26.25
SJRWMD 25Y-24H	Pond 3.3	20.0021	26.24
SJRWMD 25Y-24H	Pond 3.3	20.2523	26.23
SJRWMD 25Y-24H	Pond 3.3	20.5016	26.21
SJRWMD 25Y-24H	Pond 3.3	20.7514	26.20
SJRWMD 25Y-24H	Pond 3.3	21.0010	26.18
SJRWMD 25Y-24H	Pond 3.3	21.2511	26.17
SJRWMD 25Y-24H	Pond 3.3	21.5014	26.16
SJRWMD 25Y-24H	Pond 3.3	21.7543	26.14
SJRWMD 25Y-24H	Pond 3.3	22.0027	26.13
SJRWMD 25Y-24H	Pond 3.3	22.2507	26.12
SJRWMD 25Y-24H	Pond 3.3	22.5013	26.11
SJRWMD 25Y-24H	Pond 3.3	22.7505	26.10
SJRWMD 25Y-24H	Pond 3.3	23.0008	26.08

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.3	23.2514	26.07
SJRWMD 25Y-24H	Pond 3.3	23.5048	26.06
SJRWMD 25Y-24H	Pond 3.3	23.7530	26.05
SJRWMD 25Y-24H	Pond 3.3	24.0058	26.03
SJRWMD 25Y-24H	Pond 3.3	24.2525	26.02
SJRWMD 25Y-24H	Pond 3.3	24.5005	26.00
SJRWMD 25Y-24H	Pond 3.3	24.7509	25.98
SJRWMD 25Y-24H	Pond 3.3	25.0010	25.96
SJRWMD 25Y-24H	Pond 3.3	25.2528	25.94
SJRWMD 25Y-24H	Pond 3.3	25.5011	25.92
SJRWMD 25Y-24H	Pond 3.3	25.7521	25.90
SJRWMD 25Y-24H	Pond 3.3	26.0048	25.89
SJRWMD 25Y-24H	Pond 3.3	26.2533	25.87
SJRWMD 25Y-24H	Pond 3.3	26.5012	25.85
SJRWMD 25Y-24H	Pond 3.3	26.7528	25.83
SJRWMD 25Y-24H	Pond 3.3	27.0000	25.82
SJRWMD 25Y-24H	Pond 3.3	27.2548	25.80
SJRWMD 25Y-24H	Pond 3.3	27.5019	25.79
SJRWMD 25Y-24H	Pond 3.3	27.7527	25.77
SJRWMD 25Y-24H	Pond 3.3	28.0038	25.76
SJRWMD 25Y-24H	Pond 3.3	28.2507	25.74
SJRWMD 25Y-24H	Pond 3.3	28.5043	25.73
SJRWMD 25Y-24H	Pond 3.3	28.7527	25.71
SJRWMD 25Y-24H	Pond 3.3	29.0057	25.70
SJRWMD 25Y-24H	Pond 3.3	29.2535	25.69
SJRWMD 25Y-24H	Pond 3.3	29.5063	25.67
SJRWMD 25Y-24H	Pond 3.3	29.7537	25.66
SJRWMD 25Y-24H	Pond 3.3	30.0007	25.65
SJRWMD 25Y-24H	Pond 3.3	30.2501	25.64
SJRWMD 25Y-24H	Pond 3.3	30.5028	25.63
SJRWMD 25Y-24H	Pond 3.3	30.7502	25.61
SJRWMD 25Y-24H	Pond 3.3	31.0058	25.60
SJRWMD 25Y-24H	Pond 3.3	31.2520	25.59
SJRWMD 25Y-24H	Pond 3.3	31.5033	25.58
SJRWMD 25Y-24H	Pond 3.3	31.7520	25.57
SJRWMD 25Y-24H	Pond 3.3	32.0013	25.56
SJRWMD 25Y-24H	Pond 3.3	32.2519	25.55
SJRWMD 25Y-24H	Pond 3.3	32.5039	25.54
SJRWMD 25Y-24H	Pond 3.3	32.7509	25.53
SJRWMD 25Y-24H	Pond 3.3	33.0048	25.52
SJRWMD 25Y-24H	Pond 3.3	33.2510	25.51
SJRWMD 25Y-24H	Pond 3.3	33.5029	25.50



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.3	33.7511	25.49
SJRWMD 25Y-24H	Pond 3.3	34.0049	25.49
SJRWMD 25Y-24H	Pond 3.3	34.2520	25.48
SJRWMD 25Y-24H	Pond 3.3	34.5047	25.47
SJRWMD 25Y-24H	Pond 3.3	34.7525	25.46
SJRWMD 25Y-24H	Pond 3.3	35.0060	25.45
SJRWMD 25Y-24H	Pond 3.3	35.2506	25.44
SJRWMD 25Y-24H	Pond 3.3	35.5055	25.44
SJRWMD 25Y-24H	Pond 3.3	35.7524	25.43
SJRWMD 25Y-24H	Pond 3.3	36.0058	25.42
SJRWMD 25Y-24H	Pond 3.3	36.2518	25.41
SJRWMD 25Y-24H	Pond 3.3	36.5005	25.41
SJRWMD 25Y-24H	Pond 3.3	36.7506	25.40
SJRWMD 25Y-24H	Pond 3.3	37.0037	25.39
SJRWMD 25Y-24H	Pond 3.3	37.2527	25.39
SJRWMD 25Y-24H	Pond 3.3	37.5049	25.38
SJRWMD 25Y-24H	Pond 3.3	37.7513	25.37
SJRWMD 25Y-24H	Pond 3.3	38.0011	25.37
SJRWMD 25Y-24H	Pond 3.3	38.2505	25.36
SJRWMD 25Y-24H	Pond 3.3	38.5004	25.35
SJRWMD 25Y-24H	Pond 3.3	38.7514	25.35
SJRWMD 25Y-24H	Pond 3.3	39.0009	25.34
SJRWMD 25Y-24H	Pond 3.3	39.2522	25.34
SJRWMD 25Y-24H	Pond 3.3	39.5047	25.33
SJRWMD 25Y-24H	Pond 3.3	39.7519	25.33
SJRWMD 25Y-24H	Pond 3.3	40.0040	25.32
SJRWMD 25Y-24H	Pond 3.3	40.2523	25.31
SJRWMD 25Y-24H	Pond 3.3	40.5000	25.31
SJRWMD 25Y-24H	Pond 3.3	40.7500	25.30
SJRWMD 25Y-24H	Pond 3.3	41.0022	25.30
SJRWMD 25Y-24H	Pond 3.3	41.2529	25.29
SJRWMD 25Y-24H	Pond 3.3	41.5019	25.29
SJRWMD 25Y-24H	Pond 3.3	41.7518	25.28
SJRWMD 25Y-24H	Pond 3.3	42.0045	25.28
SJRWMD 25Y-24H	Pond 3.3	42.2516	25.27
SJRWMD 25Y-24H	Pond 3.3	42.5004	25.27
SJRWMD 25Y-24H	Pond 3.3	42.7545	25.26
SJRWMD 25Y-24H	Pond 3.3	43.0028	25.26
SJRWMD 25Y-24H	Pond 3.3	43.2533	25.26
SJRWMD 25Y-24H	Pond 3.3	43.5009	25.25
SJRWMD 25Y-24H	Pond 3.3	43.7530	25.25
SJRWMD 25Y-24H	Pond 3.3	44.0055	25.24

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.3	44.2521	25.24
SJRWMD 25Y-24H	Pond 3.3	44.5009	25.23
SJRWMD 25Y-24H	Pond 3.3	44.7507	25.23
SJRWMD 25Y-24H	Pond 3.3	45.0049	25.23
SJRWMD 25Y-24H	Pond 3.3	45.2532	25.22
SJRWMD 25Y-24H	Pond 3.3	45.5058	25.22
SJRWMD 25Y-24H	Pond 3.3	45.7520	25.21
SJRWMD 25Y-24H	Pond 3.3	46.0035	25.21
SJRWMD 25Y-24H	Pond 3.3	46.2522	25.21
SJRWMD 25Y-24H	Pond 3.3	46.5055	25.20
SJRWMD 25Y-24H	Pond 3.3	46.7512	25.20
SJRWMD 25Y-24H	Pond 3.3	47.0052	25.20
SJRWMD 25Y-24H	Pond 3.3	47.2514	25.19
SJRWMD 25Y-24H	Pond 3.3	47.5034	25.19
SJRWMD 25Y-24H	Pond 3.3	47.7510	25.19
SJRWMD 25Y-24H	Pond 3.3	48.0024	25.18
SJRWMD 25Y-24H	Pond 3.4	0.0000	24.29
SJRWMD 25Y-24H	Pond 3.4	0.2511	24.33
SJRWMD 25Y-24H	Pond 3.4	0.5050	24.33
SJRWMD 25Y-24H	Pond 3.4	0.7527	24.33
SJRWMD 25Y-24H	Pond 3.4	1.0027	24.33
SJRWMD 25Y-24H	Pond 3.4	1.2527	24.33
SJRWMD 25Y-24H	Pond 3.4	1.5027	24.33
SJRWMD 25Y-24H	Pond 3.4	1.7527	24.33
SJRWMD 25Y-24H	Pond 3.4	2.0027	24.33
SJRWMD 25Y-24H	Pond 3.4	2.2527	24.33
SJRWMD 25Y-24H	Pond 3.4	2.5027	24.33
SJRWMD 25Y-24H	Pond 3.4	2.7507	24.33
SJRWMD 25Y-24H	Pond 3.4	3.0009	24.34
SJRWMD 25Y-24H	Pond 3.4	3.2501	24.34
SJRWMD 25Y-24H	Pond 3.4	3.5010	24.35
SJRWMD 25Y-24H	Pond 3.4	3.7512	24.35
SJRWMD 25Y-24H	Pond 3.4	4.0004	24.36
SJRWMD 25Y-24H	Pond 3.4	4.2508	24.36
SJRWMD 25Y-24H	Pond 3.4	4.5005	24.37
SJRWMD 25Y-24H	Pond 3.4	4.7540	24.38
SJRWMD 25Y-24H	Pond 3.4	5.0007	24.39
SJRWMD 25Y-24H	Pond 3.4	5.2516	24.40
SJRWMD 25Y-24H	Pond 3.4	5.5040	24.41
SJRWMD 25Y-24H	Pond 3.4	5.7514	24.42
SJRWMD 25Y-24H	Pond 3.4	6.0008	24.43
SJRWMD 25Y-24H	Pond 3.4	6.2516	24.44

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.4	6.5021	24.45
SJRWMD 25Y-24H	Pond 3.4	6.7514	24.47
SJRWMD 25Y-24H	Pond 3.4	7.0020	24.48
SJRWMD 25Y-24H	Pond 3.4	7.2502	24.50
SJRWMD 25Y-24H	Pond 3.4	7.5017	24.51
SJRWMD 25Y-24H	Pond 3.4	7.7523	24.53
SJRWMD 25Y-24H	Pond 3.4	8.0010	24.55
SJRWMD 25Y-24H	Pond 3.4	8.2513	24.56
SJRWMD 25Y-24H	Pond 3.4	8.5006	24.59
SJRWMD 25Y-24H	Pond 3.4	8.7500	24.61
SJRWMD 25Y-24H	Pond 3.4	9.0012	24.63
SJRWMD 25Y-24H	Pond 3.4	9.2501	24.66
SJRWMD 25Y-24H	Pond 3.4	9.5026	24.68
SJRWMD 25Y-24H	Pond 3.4	9.7522	24.71
SJRWMD 25Y-24H	Pond 3.4	10.0006	24.74
SJRWMD 25Y-24H	Pond 3.4	10.2504	24.78
SJRWMD 25Y-24H	Pond 3.4	10.5015	24.81
SJRWMD 25Y-24H	Pond 3.4	10.7512	24.86
SJRWMD 25Y-24H	Pond 3.4	11.0010	24.91
SJRWMD 25Y-24H	Pond 3.4	11.2507	24.96
SJRWMD 25Y-24H	Pond 3.4	11.5005	25.03
SJRWMD 25Y-24H	Pond 3.4	11.7504	25.21
SJRWMD 25Y-24H	Pond 3.4	12.0003	25.58
SJRWMD 25Y-24H	Pond 3.4	12.2506	25.95
SJRWMD 25Y-24H	Pond 3.4	12.5000	26.15
SJRWMD 25Y-24H	Pond 3.4	12.7513	26.26
SJRWMD 25Y-24H	Pond 3.4	13.0017	26.30
SJRWMD 25Y-24H	Pond 3.4	13.2501	26.33
SJRWMD 25Y-24H	Pond 3.4	13.5001	26.35
SJRWMD 25Y-24H	Pond 3.4	13.7542	26.36
SJRWMD 25Y-24H	Pond 3.4	14.0033	26.38
SJRWMD 25Y-24H	Pond 3.4	14.2513	26.38
SJRWMD 25Y-24H	Pond 3.4	14.5033	26.39
SJRWMD 25Y-24H	Pond 3.4	14.7510	26.40
SJRWMD 25Y-24H	Pond 3.4	15.0011	26.40
SJRWMD 25Y-24H	Pond 3.4	15.2507	26.40
SJRWMD 25Y-24H	Pond 3.4	15.5018	26.40
SJRWMD 25Y-24H	Pond 3.4	15.7511	26.40
SJRWMD 25Y-24H	Pond 3.4	16.0040	26.40
SJRWMD 25Y-24H	Pond 3.4	16.2505	26.40
SJRWMD 25Y-24H	Pond 3.4	16.5015	26.40
SJRWMD 25Y-24H	Pond 3.4	16.7530	26.39

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.4	17.0014	26.39
SJRWMD 25Y-24H	Pond 3.4	17.2525	26.38
SJRWMD 25Y-24H	Pond 3.4	17.5004	26.38
SJRWMD 25Y-24H	Pond 3.4	17.7523	26.38
SJRWMD 25Y-24H	Pond 3.4	18.0013	26.37
SJRWMD 25Y-24H	Pond 3.4	18.2539	26.36
SJRWMD 25Y-24H	Pond 3.4	18.5027	26.36
SJRWMD 25Y-24H	Pond 3.4	18.7532	26.35
SJRWMD 25Y-24H	Pond 3.4	19.0029	26.34
SJRWMD 25Y-24H	Pond 3.4	19.2514	26.34
SJRWMD 25Y-24H	Pond 3.4	19.5020	26.33
SJRWMD 25Y-24H	Pond 3.4	19.7509	26.32
SJRWMD 25Y-24H	Pond 3.4	20.0021	26.32
SJRWMD 25Y-24H	Pond 3.4	20.2523	26.31
SJRWMD 25Y-24H	Pond 3.4	20.5016	26.30
SJRWMD 25Y-24H	Pond 3.4	20.7514	26.29
SJRWMD 25Y-24H	Pond 3.4	21.0010	26.28
SJRWMD 25Y-24H	Pond 3.4	21.2511	26.27
SJRWMD 25Y-24H	Pond 3.4	21.5014	26.26
SJRWMD 25Y-24H	Pond 3.4	21.7543	26.25
SJRWMD 25Y-24H	Pond 3.4	22.0027	26.25
SJRWMD 25Y-24H	Pond 3.4	22.2507	26.24
SJRWMD 25Y-24H	Pond 3.4	22.5013	26.23
SJRWMD 25Y-24H	Pond 3.4	22.7505	26.22
SJRWMD 25Y-24H	Pond 3.4	23.0008	26.21
SJRWMD 25Y-24H	Pond 3.4	23.2514	26.20
SJRWMD 25Y-24H	Pond 3.4	23.5048	26.19
SJRWMD 25Y-24H	Pond 3.4	23.7530	26.18
SJRWMD 25Y-24H	Pond 3.4	24.0058	26.17
SJRWMD 25Y-24H	Pond 3.4	24.2525	26.16
SJRWMD 25Y-24H	Pond 3.4	24.5005	26.14
SJRWMD 25Y-24H	Pond 3.4	24.7509	26.13
SJRWMD 25Y-24H	Pond 3.4	25.0010	26.11
SJRWMD 25Y-24H	Pond 3.4	25.2528	26.09
SJRWMD 25Y-24H	Pond 3.4	25.5011	26.07
SJRWMD 25Y-24H	Pond 3.4	25.7521	26.05
SJRWMD 25Y-24H	Pond 3.4	26.0048	26.04
SJRWMD 25Y-24H	Pond 3.4	26.2533	26.02
SJRWMD 25Y-24H	Pond 3.4	26.5012	26.00
SJRWMD 25Y-24H	Pond 3.4	26.7528	25.98
SJRWMD 25Y-24H	Pond 3.4	27.0000	25.97
SJRWMD 25Y-24H	Pond 3.4	27.2548	25.95

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.4	27.5019	25.94
SJRWMD 25Y-24H	Pond 3.4	27.7527	25.92
SJRWMD 25Y-24H	Pond 3.4	28.0038	25.90
SJRWMD 25Y-24H	Pond 3.4	28.2507	25.89
SJRWMD 25Y-24H	Pond 3.4	28.5043	25.87
SJRWMD 25Y-24H	Pond 3.4	28.7527	25.86
SJRWMD 25Y-24H	Pond 3.4	29.0057	25.84
SJRWMD 25Y-24H	Pond 3.4	29.2535	25.83
SJRWMD 25Y-24H	Pond 3.4	29.5063	25.81
SJRWMD 25Y-24H	Pond 3.4	29.7537	25.80
SJRWMD 25Y-24H	Pond 3.4	30.0007	25.78
SJRWMD 25Y-24H	Pond 3.4	30.2501	25.77
SJRWMD 25Y-24H	Pond 3.4	30.5028	25.76
SJRWMD 25Y-24H	Pond 3.4	30.7502	25.74
SJRWMD 25Y-24H	Pond 3.4	31.0058	25.73
SJRWMD 25Y-24H	Pond 3.4	31.2520	25.72
SJRWMD 25Y-24H	Pond 3.4	31.5033	25.70
SJRWMD 25Y-24H	Pond 3.4	31.7520	25.69
SJRWMD 25Y-24H	Pond 3.4	32.0013	25.68
SJRWMD 25Y-24H	Pond 3.4	32.2519	25.66
SJRWMD 25Y-24H	Pond 3.4	32.5039	25.65
SJRWMD 25Y-24H	Pond 3.4	32.7509	25.64
SJRWMD 25Y-24H	Pond 3.4	33.0048	25.63
SJRWMD 25Y-24H	Pond 3.4	33.2510	25.61
SJRWMD 25Y-24H	Pond 3.4	33.5029	25.60
SJRWMD 25Y-24H	Pond 3.4	33.7511	25.59
SJRWMD 25Y-24H	Pond 3.4	34.0049	25.58
SJRWMD 25Y-24H	Pond 3.4	34.2520	25.57
SJRWMD 25Y-24H	Pond 3.4	34.5047	25.55
SJRWMD 25Y-24H	Pond 3.4	34.7525	25.54
SJRWMD 25Y-24H	Pond 3.4	35.0060	25.53
SJRWMD 25Y-24H	Pond 3.4	35.2506	25.52
SJRWMD 25Y-24H	Pond 3.4	35.5055	25.51
SJRWMD 25Y-24H	Pond 3.4	35.7524	25.50
SJRWMD 25Y-24H	Pond 3.4	36.0058	25.49
SJRWMD 25Y-24H	Pond 3.4	36.2518	25.48
SJRWMD 25Y-24H	Pond 3.4	36.5005	25.47
SJRWMD 25Y-24H	Pond 3.4	36.7506	25.46
SJRWMD 25Y-24H	Pond 3.4	37.0037	25.45
SJRWMD 25Y-24H	Pond 3.4	37.2527	25.44
SJRWMD 25Y-24H	Pond 3.4	37.5049	25.43
SJRWMD 25Y-24H	Pond 3.4	37.7513	25.42

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.4	38.0011	25.41
SJRWMD 25Y-24H	Pond 3.4	38.2505	25.40
SJRWMD 25Y-24H	Pond 3.4	38.5004	25.39
SJRWMD 25Y-24H	Pond 3.4	38.7514	25.38
SJRWMD 25Y-24H	Pond 3.4	39.0009	25.37
SJRWMD 25Y-24H	Pond 3.4	39.2522	25.36
SJRWMD 25Y-24H	Pond 3.4	39.5047	25.35
SJRWMD 25Y-24H	Pond 3.4	39.7519	25.34
SJRWMD 25Y-24H	Pond 3.4	40.0040	25.33
SJRWMD 25Y-24H	Pond 3.4	40.2523	25.33
SJRWMD 25Y-24H	Pond 3.4	40.5000	25.32
SJRWMD 25Y-24H	Pond 3.4	40.7500	25.31
SJRWMD 25Y-24H	Pond 3.4	41.0022	25.30
SJRWMD 25Y-24H	Pond 3.4	41.2529	25.29
SJRWMD 25Y-24H	Pond 3.4	41.5019	25.28
SJRWMD 25Y-24H	Pond 3.4	41.7518	25.28
SJRWMD 25Y-24H	Pond 3.4	42.0045	25.27
SJRWMD 25Y-24H	Pond 3.4	42.2516	25.26
SJRWMD 25Y-24H	Pond 3.4	42.5004	25.25
SJRWMD 25Y-24H	Pond 3.4	42.7545	25.25
SJRWMD 25Y-24H	Pond 3.4	43.0028	25.24
SJRWMD 25Y-24H	Pond 3.4	43.2533	25.23
SJRWMD 25Y-24H	Pond 3.4	43.5009	25.22
SJRWMD 25Y-24H	Pond 3.4	43.7530	25.22
SJRWMD 25Y-24H	Pond 3.4	44.0055	25.21
SJRWMD 25Y-24H	Pond 3.4	44.2521	25.20
SJRWMD 25Y-24H	Pond 3.4	44.5009	25.20
SJRWMD 25Y-24H	Pond 3.4	44.7507	25.19
SJRWMD 25Y-24H	Pond 3.4	45.0049	25.18
SJRWMD 25Y-24H	Pond 3.4	45.2532	25.18
SJRWMD 25Y-24H	Pond 3.4	45.5058	25.17
SJRWMD 25Y-24H	Pond 3.4	45.7520	25.16
SJRWMD 25Y-24H	Pond 3.4	46.0035	25.16
SJRWMD 25Y-24H	Pond 3.4	46.2522	25.15
SJRWMD 25Y-24H	Pond 3.4	46.5055	25.15
SJRWMD 25Y-24H	Pond 3.4	46.7512	25.14
SJRWMD 25Y-24H	Pond 3.4	47.0052	25.14
SJRWMD 25Y-24H	Pond 3.4	47.2514	25.13
SJRWMD 25Y-24H	Pond 3.4	47.5034	25.13
SJRWMD 25Y-24H	Pond 3.4	47.7510	25.12
SJRWMD 25Y-24H	Pond 3.4	48.0024	25.12
SJRWMD 25Y-24H	Pond 3.5	0.0000	24.29

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.5	0.2511	24.29
SJRWMD 25Y-24H	Pond 3.5	0.5050	24.29
SJRWMD 25Y-24H	Pond 3.5	0.7527	24.29
SJRWMD 25Y-24H	Pond 3.5	1.0027	24.29
SJRWMD 25Y-24H	Pond 3.5	1.2527	24.29
SJRWMD 25Y-24H	Pond 3.5	1.5027	24.29
SJRWMD 25Y-24H	Pond 3.5	1.7527	24.29
SJRWMD 25Y-24H	Pond 3.5	2.0027	24.29
SJRWMD 25Y-24H	Pond 3.5	2.2527	24.29
SJRWMD 25Y-24H	Pond 3.5	2.5027	24.29
SJRWMD 25Y-24H	Pond 3.5	2.7507	24.30
SJRWMD 25Y-24H	Pond 3.5	3.0009	24.30
SJRWMD 25Y-24H	Pond 3.5	3.2501	24.30
SJRWMD 25Y-24H	Pond 3.5	3.5010	24.31
SJRWMD 25Y-24H	Pond 3.5	3.7512	24.32
SJRWMD 25Y-24H	Pond 3.5	4.0004	24.32
SJRWMD 25Y-24H	Pond 3.5	4.2508	24.33
SJRWMD 25Y-24H	Pond 3.5	4.5005	24.34
SJRWMD 25Y-24H	Pond 3.5	4.7540	24.34
SJRWMD 25Y-24H	Pond 3.5	5.0007	24.35
SJRWMD 25Y-24H	Pond 3.5	5.2516	24.36
SJRWMD 25Y-24H	Pond 3.5	5.5040	24.37
SJRWMD 25Y-24H	Pond 3.5	5.7514	24.38
SJRWMD 25Y-24H	Pond 3.5	6.0008	24.39
SJRWMD 25Y-24H	Pond 3.5	6.2516	24.40
SJRWMD 25Y-24H	Pond 3.5	6.5021	24.42
SJRWMD 25Y-24H	Pond 3.5	6.7514	24.43
SJRWMD 25Y-24H	Pond 3.5	7.0020	24.44
SJRWMD 25Y-24H	Pond 3.5	7.2502	24.46
SJRWMD 25Y-24H	Pond 3.5	7.5017	24.47
SJRWMD 25Y-24H	Pond 3.5	7.7523	24.49
SJRWMD 25Y-24H	Pond 3.5	8.0010	24.51
SJRWMD 25Y-24H	Pond 3.5	8.2513	24.52
SJRWMD 25Y-24H	Pond 3.5	8.5006	24.54
SJRWMD 25Y-24H	Pond 3.5	8.7500	24.56
SJRWMD 25Y-24H	Pond 3.5	9.0012	24.59
SJRWMD 25Y-24H	Pond 3.5	9.2501	24.61
SJRWMD 25Y-24H	Pond 3.5	9.5026	24.64
SJRWMD 25Y-24H	Pond 3.5	9.7522	24.66
SJRWMD 25Y-24H	Pond 3.5	10.0006	24.69
SJRWMD 25Y-24H	Pond 3.5	10.2504	24.73
SJRWMD 25Y-24H	Pond 3.5	10.5015	24.76

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.5	10.7512	24.81
SJRWMD 25Y-24H	Pond 3.5	11.0010	24.86
SJRWMD 25Y-24H	Pond 3.5	11.2507	24.91
SJRWMD 25Y-24H	Pond 3.5	11.5005	24.98
SJRWMD 25Y-24H	Pond 3.5	11.7504	25.15
SJRWMD 25Y-24H	Pond 3.5	12.0003	25.52
SJRWMD 25Y-24H	Pond 3.5	12.2506	25.94
SJRWMD 25Y-24H	Pond 3.5	12.5000	26.20
SJRWMD 25Y-24H	Pond 3.5	12.7513	26.32
SJRWMD 25Y-24H	Pond 3.5	13.0017	26.38
SJRWMD 25Y-24H	Pond 3.5	13.2501	26.40
SJRWMD 25Y-24H	Pond 3.5	13.5001	26.41
SJRWMD 25Y-24H	Pond 3.5	13.7542	26.42
SJRWMD 25Y-24H	Pond 3.5	14.0033	26.42
SJRWMD 25Y-24H	Pond 3.5	14.2513	26.42
SJRWMD 25Y-24H	Pond 3.5	14.5033	26.42
SJRWMD 25Y-24H	Pond 3.5	14.7510	26.42
SJRWMD 25Y-24H	Pond 3.5	15.0011	26.41
SJRWMD 25Y-24H	Pond 3.5	15.2507	26.41
SJRWMD 25Y-24H	Pond 3.5	15.5018	26.40
SJRWMD 25Y-24H	Pond 3.5	15.7511	26.39
SJRWMD 25Y-24H	Pond 3.5	16.0040	26.38
SJRWMD 25Y-24H	Pond 3.5	16.2505	26.37
SJRWMD 25Y-24H	Pond 3.5	16.5015	26.36
SJRWMD 25Y-24H	Pond 3.5	16.7530	26.35
SJRWMD 25Y-24H	Pond 3.5	17.0014	26.34
SJRWMD 25Y-24H	Pond 3.5	17.2525	26.33
SJRWMD 25Y-24H	Pond 3.5	17.5004	26.32
SJRWMD 25Y-24H	Pond 3.5	17.7523	26.31
SJRWMD 25Y-24H	Pond 3.5	18.0013	26.29
SJRWMD 25Y-24H	Pond 3.5	18.2539	26.28
SJRWMD 25Y-24H	Pond 3.5	18.5027	26.27
SJRWMD 25Y-24H	Pond 3.5	18.7532	26.26
SJRWMD 25Y-24H	Pond 3.5	19.0029	26.24
SJRWMD 25Y-24H	Pond 3.5	19.2514	26.23
SJRWMD 25Y-24H	Pond 3.5	19.5020	26.22
SJRWMD 25Y-24H	Pond 3.5	19.7509	26.21
SJRWMD 25Y-24H	Pond 3.5	20.0021	26.20
SJRWMD 25Y-24H	Pond 3.5	20.2523	26.18
SJRWMD 25Y-24H	Pond 3.5	20.5016	26.17
SJRWMD 25Y-24H	Pond 3.5	20.7514	26.16
SJRWMD 25Y-24H	Pond 3.5	21.0010	26.14



Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.5	21.2511	26.13
SJRWMD 25Y-24H	Pond 3.5	21.5014	26.12
SJRWMD 25Y-24H	Pond 3.5	21.7543	26.11
SJRWMD 25Y-24H	Pond 3.5	22.0027	26.10
SJRWMD 25Y-24H	Pond 3.5	22.2507	26.09
SJRWMD 25Y-24H	Pond 3.5	22.5013	26.08
SJRWMD 25Y-24H	Pond 3.5	22.7505	26.06
SJRWMD 25Y-24H	Pond 3.5	23.0008	26.05
SJRWMD 25Y-24H	Pond 3.5	23.2514	26.04
SJRWMD 25Y-24H	Pond 3.5	23.5048	26.03
SJRWMD 25Y-24H	Pond 3.5	23.7530	26.02
SJRWMD 25Y-24H	Pond 3.5	24.0058	26.01
SJRWMD 25Y-24H	Pond 3.5	24.2525	25.99
SJRWMD 25Y-24H	Pond 3.5	24.5005	25.97
SJRWMD 25Y-24H	Pond 3.5	24.7509	25.96
SJRWMD 25Y-24H	Pond 3.5	25.0010	25.94
SJRWMD 25Y-24H	Pond 3.5	25.2528	25.92
SJRWMD 25Y-24H	Pond 3.5	25.5011	25.90
SJRWMD 25Y-24H	Pond 3.5	25.7521	25.88
SJRWMD 25Y-24H	Pond 3.5	26.0048	25.87
SJRWMD 25Y-24H	Pond 3.5	26.2533	25.85
SJRWMD 25Y-24H	Pond 3.5	26.5012	25.83
SJRWMD 25Y-24H	Pond 3.5	26.7528	25.82
SJRWMD 25Y-24H	Pond 3.5	27.0000	25.80
SJRWMD 25Y-24H	Pond 3.5	27.2548	25.79
SJRWMD 25Y-24H	Pond 3.5	27.5019	25.77
SJRWMD 25Y-24H	Pond 3.5	27.7527	25.76
SJRWMD 25Y-24H	Pond 3.5	28.0038	25.74
SJRWMD 25Y-24H	Pond 3.5	28.2507	25.73
SJRWMD 25Y-24H	Pond 3.5	28.5043	25.72
SJRWMD 25Y-24H	Pond 3.5	28.7527	25.70
SJRWMD 25Y-24H	Pond 3.5	29.0057	25.69
SJRWMD 25Y-24H	Pond 3.5	29.2535	25.68
SJRWMD 25Y-24H	Pond 3.5	29.5063	25.66
SJRWMD 25Y-24H	Pond 3.5	29.7537	25.65
SJRWMD 25Y-24H	Pond 3.5	30.0007	25.64
SJRWMD 25Y-24H	Pond 3.5	30.2501	25.63
SJRWMD 25Y-24H	Pond 3.5	30.5028	25.62
SJRWMD 25Y-24H	Pond 3.5	30.7502	25.61
SJRWMD 25Y-24H	Pond 3.5	31.0058	25.60
SJRWMD 25Y-24H	Pond 3.5	31.2520	25.58
SJRWMD 25Y-24H	Pond 3.5	31.5033	25.57

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.5	31.7520	25.56
SJRWMD 25Y-24H	Pond 3.5	32.0013	25.55
SJRWMD 25Y-24H	Pond 3.5	32.2519	25.54
SJRWMD 25Y-24H	Pond 3.5	32.5039	25.53
SJRWMD 25Y-24H	Pond 3.5	32.7509	25.53
SJRWMD 25Y-24H	Pond 3.5	33.0048	25.52
SJRWMD 25Y-24H	Pond 3.5	33.2510	25.51
SJRWMD 25Y-24H	Pond 3.5	33.5029	25.50
SJRWMD 25Y-24H	Pond 3.5	33.7511	25.49
SJRWMD 25Y-24H	Pond 3.5	34.0049	25.48
SJRWMD 25Y-24H	Pond 3.5	34.2520	25.47
SJRWMD 25Y-24H	Pond 3.5	34.5047	25.46
SJRWMD 25Y-24H	Pond 3.5	34.7525	25.46
SJRWMD 25Y-24H	Pond 3.5	35.0060	25.45
SJRWMD 25Y-24H	Pond 3.5	35.2506	25.44
SJRWMD 25Y-24H	Pond 3.5	35.5055	25.43
SJRWMD 25Y-24H	Pond 3.5	35.7524	25.43
SJRWMD 25Y-24H	Pond 3.5	36.0058	25.42
SJRWMD 25Y-24H	Pond 3.5	36.2518	25.41
SJRWMD 25Y-24H	Pond 3.5	36.5005	25.40
SJRWMD 25Y-24H	Pond 3.5	36.7506	25.40
SJRWMD 25Y-24H	Pond 3.5	37.0037	25.39
SJRWMD 25Y-24H	Pond 3.5	37.2527	25.38
SJRWMD 25Y-24H	Pond 3.5	37.5049	25.38
SJRWMD 25Y-24H	Pond 3.5	37.7513	25.37
SJRWMD 25Y-24H	Pond 3.5	38.0011	25.36
SJRWMD 25Y-24H	Pond 3.5	38.2505	25.36
SJRWMD 25Y-24H	Pond 3.5	38.5004	25.35
SJRWMD 25Y-24H	Pond 3.5	38.7514	25.35
SJRWMD 25Y-24H	Pond 3.5	39.0009	25.34
SJRWMD 25Y-24H	Pond 3.5	39.2522	25.33
SJRWMD 25Y-24H	Pond 3.5	39.5047	25.33
SJRWMD 25Y-24H	Pond 3.5	39.7519	25.32
SJRWMD 25Y-24H	Pond 3.5	40.0040	25.32
SJRWMD 25Y-24H	Pond 3.5	40.2523	25.31
SJRWMD 25Y-24H	Pond 3.5	40.5000	25.31
SJRWMD 25Y-24H	Pond 3.5	40.7500	25.30
SJRWMD 25Y-24H	Pond 3.5	41.0022	25.30
SJRWMD 25Y-24H	Pond 3.5	41.2529	25.29
SJRWMD 25Y-24H	Pond 3.5	41.5019	25.29
SJRWMD 25Y-24H	Pond 3.5	41.7518	25.28
SJRWMD 25Y-24H	Pond 3.5	42.0045	25.28

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.5	42.2516	25.27
SJRWMD 25Y-24H	Pond 3.5	42.5004	25.27
SJRWMD 25Y-24H	Pond 3.5	42.7545	25.26
SJRWMD 25Y-24H	Pond 3.5	43.0028	25.26
SJRWMD 25Y-24H	Pond 3.5	43.2533	25.25
SJRWMD 25Y-24H	Pond 3.5	43.5009	25.25
SJRWMD 25Y-24H	Pond 3.5	43.7530	25.24
SJRWMD 25Y-24H	Pond 3.5	44.0055	25.24
SJRWMD 25Y-24H	Pond 3.5	44.2521	25.24
SJRWMD 25Y-24H	Pond 3.5	44.5009	25.23
SJRWMD 25Y-24H	Pond 3.5	44.7507	25.23
SJRWMD 25Y-24H	Pond 3.5	45.0049	25.22
SJRWMD 25Y-24H	Pond 3.5	45.2532	25.22
SJRWMD 25Y-24H	Pond 3.5	45.5058	25.22
SJRWMD 25Y-24H	Pond 3.5	45.7520	25.21
SJRWMD 25Y-24H	Pond 3.5	46.0035	25.21
SJRWMD 25Y-24H	Pond 3.5	46.2522	25.20
SJRWMD 25Y-24H	Pond 3.5	46.5055	25.20
SJRWMD 25Y-24H	Pond 3.5	46.7512	25.20
SJRWMD 25Y-24H	Pond 3.5	47.0052	25.19
SJRWMD 25Y-24H	Pond 3.5	47.2514	25.19
SJRWMD 25Y-24H	Pond 3.5	47.5034	25.19
SJRWMD 25Y-24H	Pond 3.5	47.7510	25.18
SJRWMD 25Y-24H	Pond 3.5	48.0024	25.18
SJRWMD 25Y-24H	Pond 3.6	0.0000	24.29
SJRWMD 25Y-24H	Pond 3.6	0.2511	24.33
SJRWMD 25Y-24H	Pond 3.6	0.5050	24.33
SJRWMD 25Y-24H	Pond 3.6	0.7527	24.33
SJRWMD 25Y-24H	Pond 3.6	1.0027	24.33
SJRWMD 25Y-24H	Pond 3.6	1.2527	24.33
SJRWMD 25Y-24H	Pond 3.6	1.5027	24.33
SJRWMD 25Y-24H	Pond 3.6	1.7527	24.33
SJRWMD 25Y-24H	Pond 3.6	2.0027	24.33
SJRWMD 25Y-24H	Pond 3.6	2.2527	24.33
SJRWMD 25Y-24H	Pond 3.6	2.5027	24.33
SJRWMD 25Y-24H	Pond 3.6	2.7507	24.33
SJRWMD 25Y-24H	Pond 3.6	3.0009	24.34
SJRWMD 25Y-24H	Pond 3.6	3.2501	24.34
SJRWMD 25Y-24H	Pond 3.6	3.5010	24.34
SJRWMD 25Y-24H	Pond 3.6	3.7512	24.35
SJRWMD 25Y-24H	Pond 3.6	4.0004	24.36
SJRWMD 25Y-24H	Pond 3.6	4.2508	24.36

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.6	4.5005	24.37
SJRWMD 25Y-24H	Pond 3.6	4.7540	24.38
SJRWMD 25Y-24H	Pond 3.6	5.0007	24.39
SJRWMD 25Y-24H	Pond 3.6	5.2516	24.40
SJRWMD 25Y-24H	Pond 3.6	5.5040	24.41
SJRWMD 25Y-24H	Pond 3.6	5.7514	24.42
SJRWMD 25Y-24H	Pond 3.6	6.0008	24.43
SJRWMD 25Y-24H	Pond 3.6	6.2516	24.44
SJRWMD 25Y-24H	Pond 3.6	6.5021	24.45
SJRWMD 25Y-24H	Pond 3.6	6.7514	24.47
SJRWMD 25Y-24H	Pond 3.6	7.0020	24.48
SJRWMD 25Y-24H	Pond 3.6	7.2502	24.49
SJRWMD 25Y-24H	Pond 3.6	7.5017	24.51
SJRWMD 25Y-24H	Pond 3.6	7.7523	24.53
SJRWMD 25Y-24H	Pond 3.6	8.0010	24.54
SJRWMD 25Y-24H	Pond 3.6	8.2513	24.56
SJRWMD 25Y-24H	Pond 3.6	8.5006	24.58
SJRWMD 25Y-24H	Pond 3.6	8.7500	24.60
SJRWMD 25Y-24H	Pond 3.6	9.0012	24.63
SJRWMD 25Y-24H	Pond 3.6	9.2501	24.65
SJRWMD 25Y-24H	Pond 3.6	9.5026	24.68
SJRWMD 25Y-24H	Pond 3.6	9.7522	24.71
SJRWMD 25Y-24H	Pond 3.6	10.0006	24.74
SJRWMD 25Y-24H	Pond 3.6	10.2504	24.77
SJRWMD 25Y-24H	Pond 3.6	10.5015	24.81
SJRWMD 25Y-24H	Pond 3.6	10.7512	24.86
SJRWMD 25Y-24H	Pond 3.6	11.0010	24.91
SJRWMD 25Y-24H	Pond 3.6	11.2507	24.96
SJRWMD 25Y-24H	Pond 3.6	11.5005	25.03
SJRWMD 25Y-24H	Pond 3.6	11.7504	25.18
SJRWMD 25Y-24H	Pond 3.6	12.0003	25.49
SJRWMD 25Y-24H	Pond 3.6	12.2506	25.91
SJRWMD 25Y-24H	Pond 3.6	12.5000	26.16
SJRWMD 25Y-24H	Pond 3.6	12.7513	26.29
SJRWMD 25Y-24H	Pond 3.6	13.0017	26.35
SJRWMD 25Y-24H	Pond 3.6	13.2501	26.39
SJRWMD 25Y-24H	Pond 3.6	13.5001	26.40
SJRWMD 25Y-24H	Pond 3.6	13.7542	26.41
SJRWMD 25Y-24H	Pond 3.6	14.0033	26.42
SJRWMD 25Y-24H	Pond 3.6	14.2513	26.43
SJRWMD 25Y-24H	Pond 3.6	14.5033	26.43
SJRWMD 25Y-24H	Pond 3.6	14.7510	26.43

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.6	15.0011	26.43
SJRWMD 25Y-24H	Pond 3.6	15.2507	26.43
SJRWMD 25Y-24H	Pond 3.6	15.5018	26.43
SJRWMD 25Y-24H	Pond 3.6	15.7511	26.43
SJRWMD 25Y-24H	Pond 3.6	16.0040	26.42
SJRWMD 25Y-24H	Pond 3.6	16.2505	26.42
SJRWMD 25Y-24H	Pond 3.6	16.5015	26.42
SJRWMD 25Y-24H	Pond 3.6	16.7530	26.41
SJRWMD 25Y-24H	Pond 3.6	17.0014	26.41
SJRWMD 25Y-24H	Pond 3.6	17.2525	26.40
SJRWMD 25Y-24H	Pond 3.6	17.5004	26.40
SJRWMD 25Y-24H	Pond 3.6	17.7523	26.39
SJRWMD 25Y-24H	Pond 3.6	18.0013	26.39
SJRWMD 25Y-24H	Pond 3.6	18.2539	26.38
SJRWMD 25Y-24H	Pond 3.6	18.5027	26.37
SJRWMD 25Y-24H	Pond 3.6	18.7532	26.37
SJRWMD 25Y-24H	Pond 3.6	19.0029	26.36
SJRWMD 25Y-24H	Pond 3.6	19.2514	26.35
SJRWMD 25Y-24H	Pond 3.6	19.5020	26.34
SJRWMD 25Y-24H	Pond 3.6	19.7509	26.34
SJRWMD 25Y-24H	Pond 3.6	20.0021	26.33
SJRWMD 25Y-24H	Pond 3.6	20.2523	26.32
SJRWMD 25Y-24H	Pond 3.6	20.5016	26.31
SJRWMD 25Y-24H	Pond 3.6	20.7514	26.30
SJRWMD 25Y-24H	Pond 3.6	21.0010	26.29
SJRWMD 25Y-24H	Pond 3.6	21.2511	26.29
SJRWMD 25Y-24H	Pond 3.6	21.5014	26.28
SJRWMD 25Y-24H	Pond 3.6	21.7543	26.27
SJRWMD 25Y-24H	Pond 3.6	22.0027	26.26
SJRWMD 25Y-24H	Pond 3.6	22.2507	26.25
SJRWMD 25Y-24H	Pond 3.6	22.5013	26.24
SJRWMD 25Y-24H	Pond 3.6	22.7505	26.23
SJRWMD 25Y-24H	Pond 3.6	23.0008	26.22
SJRWMD 25Y-24H	Pond 3.6	23.2514	26.22
SJRWMD 25Y-24H	Pond 3.6	23.5048	26.21
SJRWMD 25Y-24H	Pond 3.6	23.7530	26.20
SJRWMD 25Y-24H	Pond 3.6	24.0058	26.19
SJRWMD 25Y-24H	Pond 3.6	24.2525	26.17
SJRWMD 25Y-24H	Pond 3.6	24.5005	26.16
SJRWMD 25Y-24H	Pond 3.6	24.7509	26.14
SJRWMD 25Y-24H	Pond 3.6	25.0010	26.12
SJRWMD 25Y-24H	Pond 3.6	25.2528	26.10

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.6	25.5011	26.08
SJRWMD 25Y-24H	Pond 3.6	25.7521	26.07
SJRWMD 25Y-24H	Pond 3.6	26.0048	26.05
SJRWMD 25Y-24H	Pond 3.6	26.2533	26.03
SJRWMD 25Y-24H	Pond 3.6	26.5012	26.01
SJRWMD 25Y-24H	Pond 3.6	26.7528	26.00
SJRWMD 25Y-24H	Pond 3.6	27.0000	25.98
SJRWMD 25Y-24H	Pond 3.6	27.2548	25.96
SJRWMD 25Y-24H	Pond 3.6	27.5019	25.95
SJRWMD 25Y-24H	Pond 3.6	27.7527	25.93
SJRWMD 25Y-24H	Pond 3.6	28.0038	25.91
SJRWMD 25Y-24H	Pond 3.6	28.2507	25.90
SJRWMD 25Y-24H	Pond 3.6	28.5043	25.88
SJRWMD 25Y-24H	Pond 3.6	28.7527	25.87
SJRWMD 25Y-24H	Pond 3.6	29.0057	25.85
SJRWMD 25Y-24H	Pond 3.6	29.2535	25.84
SJRWMD 25Y-24H	Pond 3.6	29.5063	25.82
SJRWMD 25Y-24H	Pond 3.6	29.7537	25.81
SJRWMD 25Y-24H	Pond 3.6	30.0007	25.79
SJRWMD 25Y-24H	Pond 3.6	30.2501	25.78
SJRWMD 25Y-24H	Pond 3.6	30.5028	25.76
SJRWMD 25Y-24H	Pond 3.6	30.7502	25.75
SJRWMD 25Y-24H	Pond 3.6	31.0058	25.74
SJRWMD 25Y-24H	Pond 3.6	31.2520	25.72
SJRWMD 25Y-24H	Pond 3.6	31.5033	25.71
SJRWMD 25Y-24H	Pond 3.6	31.7520	25.70
SJRWMD 25Y-24H	Pond 3.6	32.0013	25.68
SJRWMD 25Y-24H	Pond 3.6	32.2519	25.67
SJRWMD 25Y-24H	Pond 3.6	32.5039	25.66
SJRWMD 25Y-24H	Pond 3.6	32.7509	25.64
SJRWMD 25Y-24H	Pond 3.6	33.0048	25.63
SJRWMD 25Y-24H	Pond 3.6	33.2510	25.62
SJRWMD 25Y-24H	Pond 3.6	33.5029	25.61
SJRWMD 25Y-24H	Pond 3.6	33.7511	25.59
SJRWMD 25Y-24H	Pond 3.6	34.0049	25.58
SJRWMD 25Y-24H	Pond 3.6	34.2520	25.57
SJRWMD 25Y-24H	Pond 3.6	34.5047	25.56
SJRWMD 25Y-24H	Pond 3.6	34.7525	25.55
SJRWMD 25Y-24H	Pond 3.6	35.0060	25.54
SJRWMD 25Y-24H	Pond 3.6	35.2506	25.53
SJRWMD 25Y-24H	Pond 3.6	35.5055	25.51
SJRWMD 25Y-24H	Pond 3.6	35.7524	25.50

Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.6	36.0058	25.49
SJRWMD 25Y-24H	Pond 3.6	36.2518	25.48
SJRWMD 25Y-24H	Pond 3.6	36.5005	25.47
SJRWMD 25Y-24H	Pond 3.6	36.7506	25.46
SJRWMD 25Y-24H	Pond 3.6	37.0037	25.45
SJRWMD 25Y-24H	Pond 3.6	37.2527	25.44
SJRWMD 25Y-24H	Pond 3.6	37.5049	25.43
SJRWMD 25Y-24H	Pond 3.6	37.7513	25.42
SJRWMD 25Y-24H	Pond 3.6	38.0011	25.41
SJRWMD 25Y-24H	Pond 3.6	38.2505	25.40
SJRWMD 25Y-24H	Pond 3.6	38.5004	25.39
SJRWMD 25Y-24H	Pond 3.6	38.7514	25.38
SJRWMD 25Y-24H	Pond 3.6	39.0009	25.37
SJRWMD 25Y-24H	Pond 3.6	39.2522	25.36
SJRWMD 25Y-24H	Pond 3.6	39.5047	25.36
SJRWMD 25Y-24H	Pond 3.6	39.7519	25.35
SJRWMD 25Y-24H	Pond 3.6	40.0040	25.34
SJRWMD 25Y-24H	Pond 3.6	40.2523	25.33
SJRWMD 25Y-24H	Pond 3.6	40.5000	25.32
SJRWMD 25Y-24H	Pond 3.6	40.7500	25.31
SJRWMD 25Y-24H	Pond 3.6	41.0022	25.30
SJRWMD 25Y-24H	Pond 3.6	41.2529	25.30
SJRWMD 25Y-24H	Pond 3.6	41.5019	25.29
SJRWMD 25Y-24H	Pond 3.6	41.7518	25.28
SJRWMD 25Y-24H	Pond 3.6	42.0045	25.27
SJRWMD 25Y-24H	Pond 3.6	42.2516	25.26
SJRWMD 25Y-24H	Pond 3.6	42.5004	25.26
SJRWMD 25Y-24H	Pond 3.6	42.7545	25.25
SJRWMD 25Y-24H	Pond 3.6	43.0028	25.24
SJRWMD 25Y-24H	Pond 3.6	43.2533	25.23
SJRWMD 25Y-24H	Pond 3.6	43.5009	25.23
SJRWMD 25Y-24H	Pond 3.6	43.7530	25.22
SJRWMD 25Y-24H	Pond 3.6	44.0055	25.21
SJRWMD 25Y-24H	Pond 3.6	44.2521	25.21
SJRWMD 25Y-24H	Pond 3.6	44.5009	25.20
SJRWMD 25Y-24H	Pond 3.6	44.7507	25.19
SJRWMD 25Y-24H	Pond 3.6	45.0049	25.19
SJRWMD 25Y-24H	Pond 3.6	45.2532	25.18
SJRWMD 25Y-24H	Pond 3.6	45.5058	25.17
SJRWMD 25Y-24H	Pond 3.6	45.7520	25.17
SJRWMD 25Y-24H	Pond 3.6	46.0035	25.16
SJRWMD 25Y-24H	Pond 3.6	46.2522	25.16

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Sim	Node Name	Relative Time [hrs]	Stage [ft]
SJRWMD 25Y-24H	Pond 3.6	46.5055	25.15
SJRWMD 25Y-24H	Pond 3.6	46.7512	25.14
SJRWMD 25Y-24H	Pond 3.6	47.0052	25.14
SJRWMD 25Y-24H	Pond 3.6	47.2514	25.13
SJRWMD 25Y-24H	Pond 3.6	47.5034	25.13
SJRWMD 25Y-24H	Pond 3.6	47.7510	25.12
SJRWMD 25Y-24H	Pond 3.6	48.0024	25.12



## Appendix F - References

25-Year 24-Hour Rainfall Map

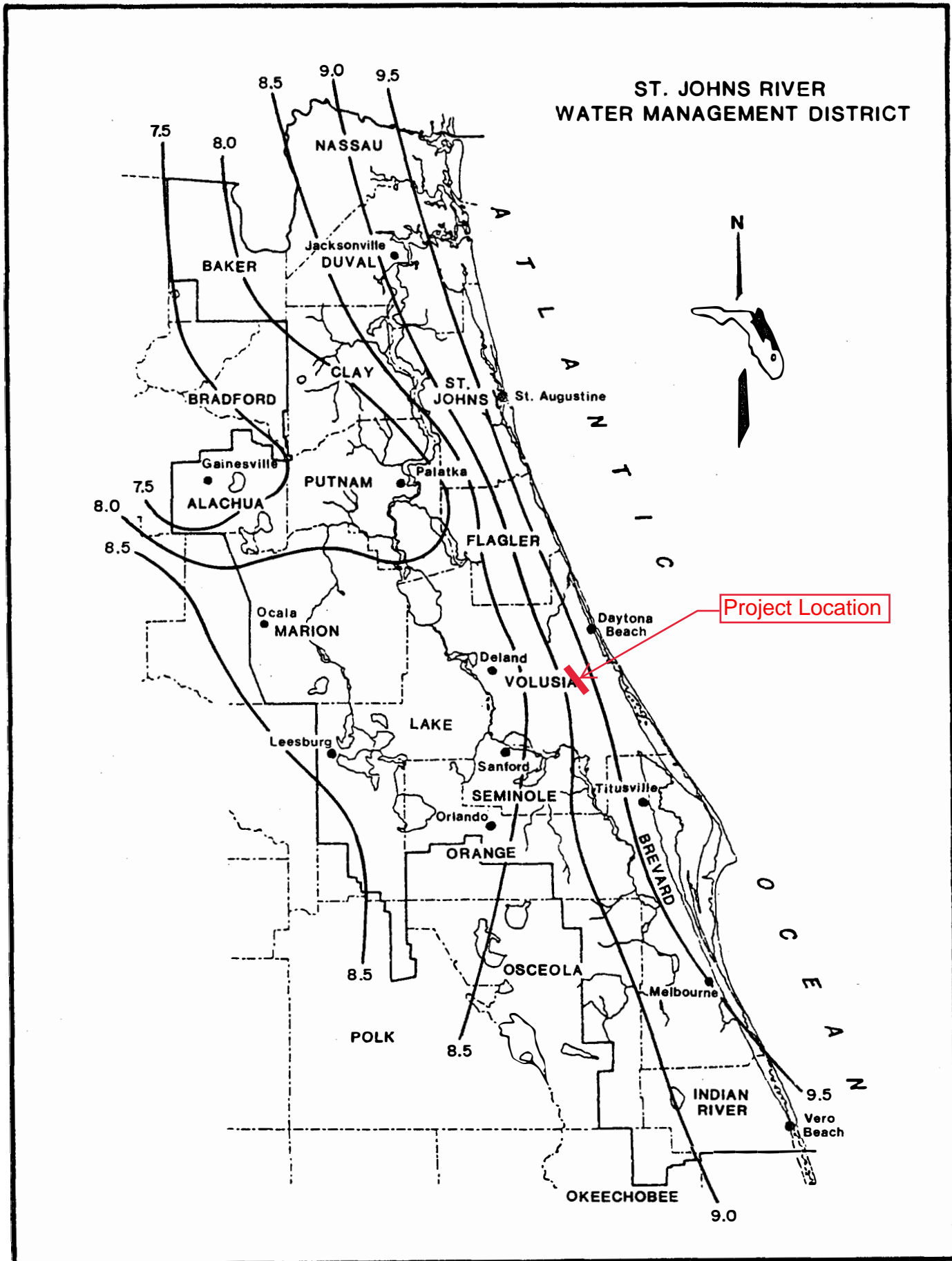
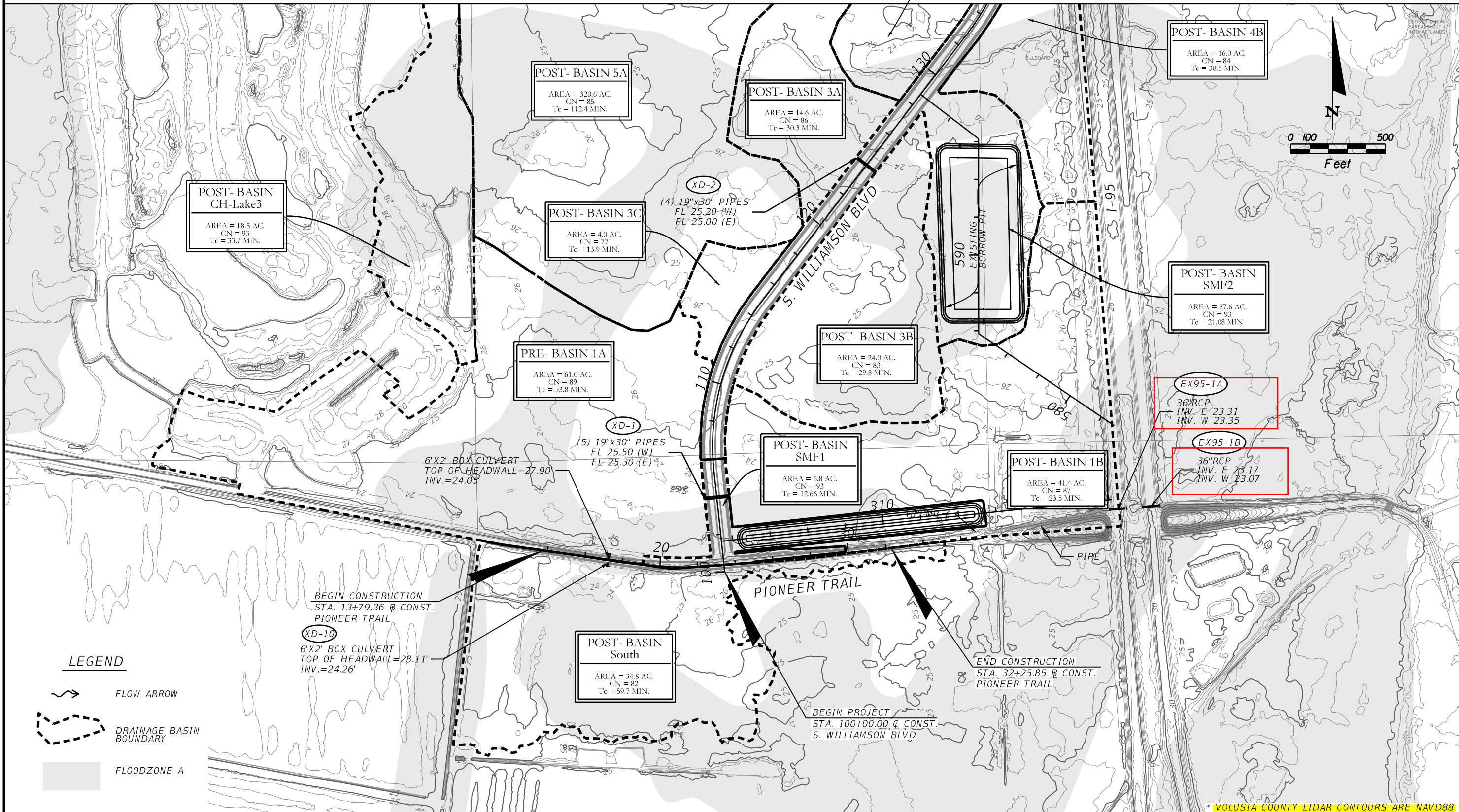


Figure 7. 25-Year 24-Hour Maximum Rainfall for Northeast Florida, Inches.

SJRWMD PERMIT NO. 134174

Conversion to NAVD 88  
Take NGVD29-1.14 = NAVD88

MATCH LINE A



\* VOLUSTIA COUNTY LIDAR CONTOURS ARE NAVD88

REVISIONS	
DATE	DESCRIPTION

**PIONEER CDD**  
 5

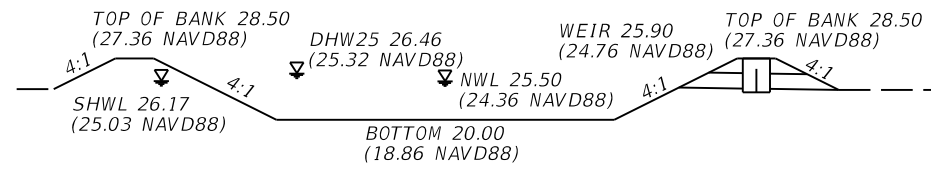
**ETM**  
 VISION • EXPERIENCE • RESULTS  
 England-Thins & Miller, Inc.  
 14775 Old St. Augustine Road  
 Jacksonville, FL 32258  
 TEL: (904) 642-8990  
 FAX: (904) 646-9485  
 CA - 00002584 LC - 0000316

PROJECT NO.	12-096
DATE	MAY 2013
SCALE	

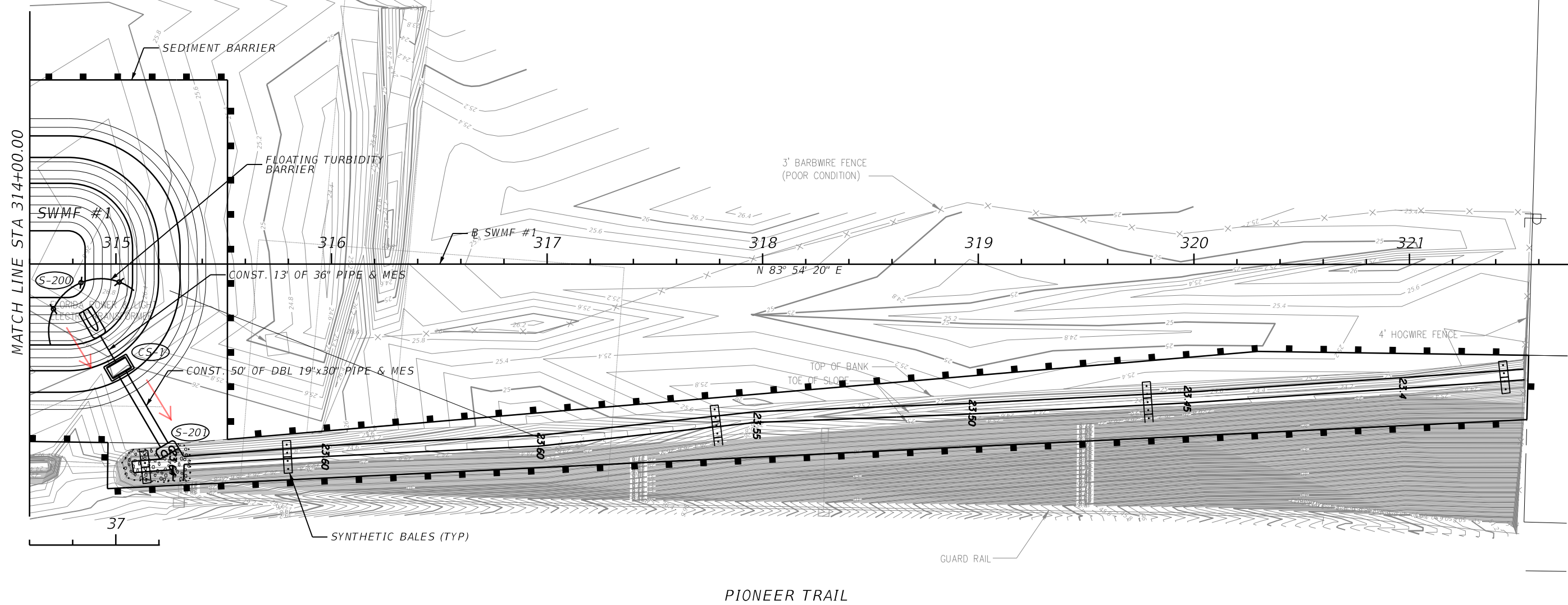
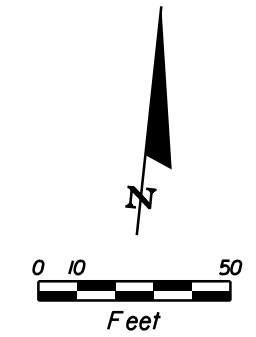
**SOUTH WILLIAMSON BLVD**  
**PROPOSED DRAINAGE MAP**

SHEET NO.	5
-----------	---





LEGEND	
	SEDIMENT BARRIER
	SYNTHETIC BALES
	FLOATING TURBIDITY BARRIER
	STAKED TURBIDITY BARRIER
	INLET PROTECTION SYSTEM



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



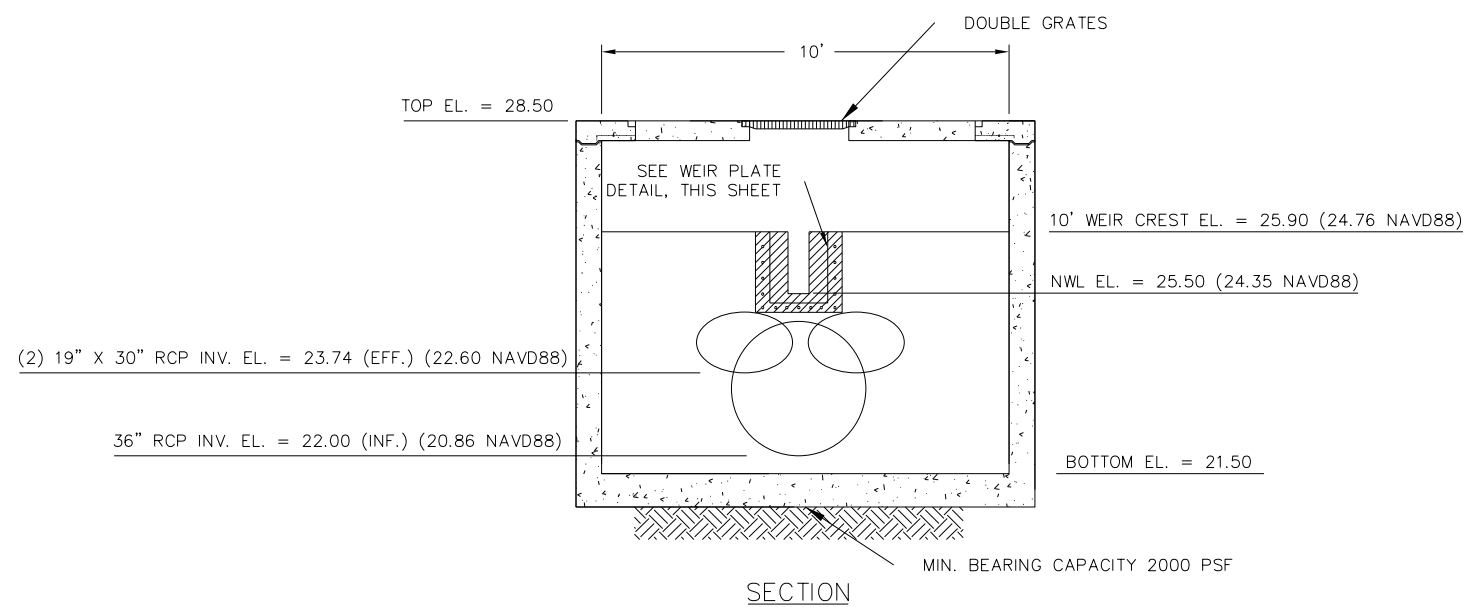
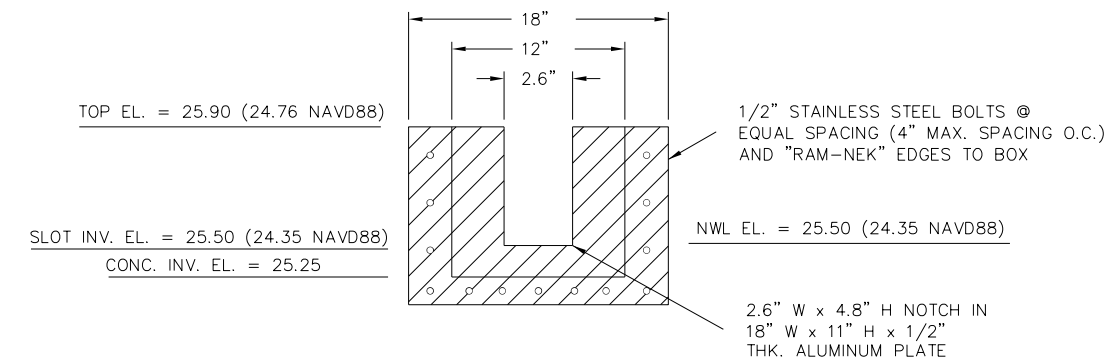
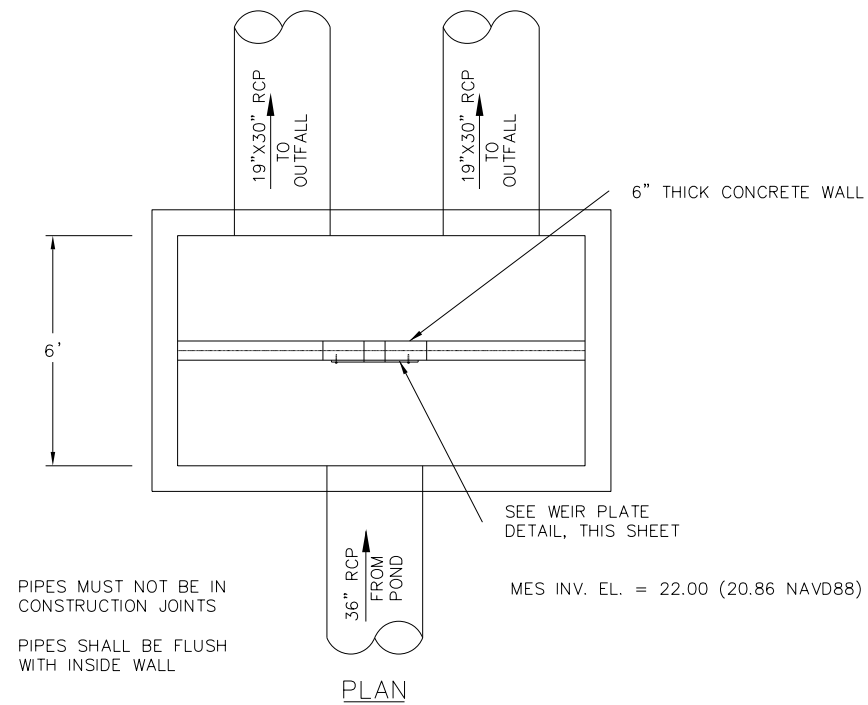
PIONEER CDD  
6



PROJECT NO.	12-096
DATE	MAY 2013
SCALE	

**SOUTH WILLIAMSON BLVD**  
**STORMWATER MANAGEMENT FACILITY NO 1**

SHEET NO.  
 90



SMF-1  
CONTROL STRUCTURE DETAIL  
MODIFIED TYPE "J" BOTTOM  
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



PIONEER CDD

7



Englund-Thing & Miller, Inc.  
14775 Old St. Augustine Road  
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CA - 00002584 LC - 0000316

PROJECT NO. 12-096

DATE MAY 2013

SCALE

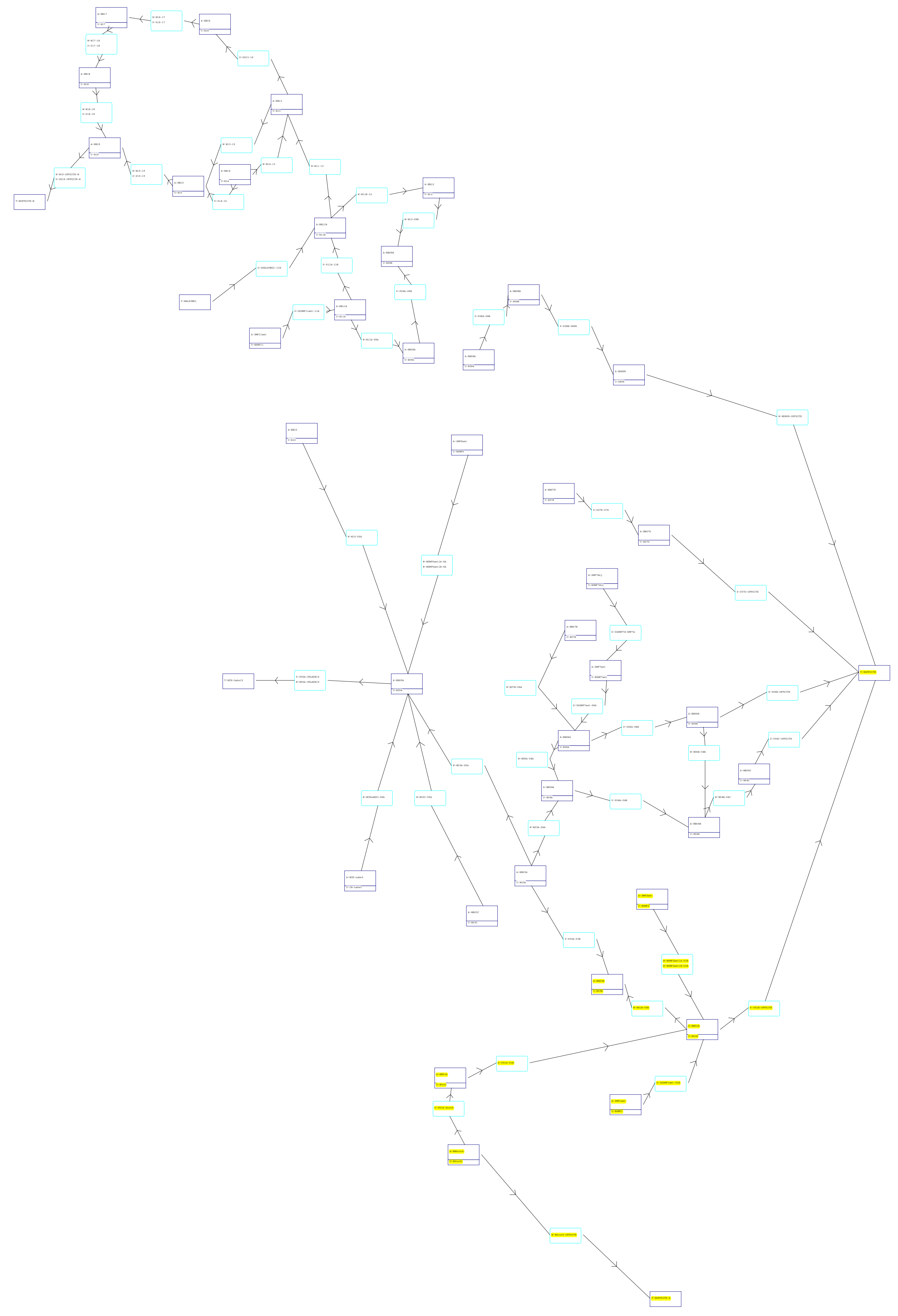
SOUTH WILLIAMSON BLVD

CONTROL STRUCTURE DETAILS  
SMF-1

SHEET NO.

116

- Nodes**  
 A Stage/Area  
 V Stage/Volume  
 T Time/Stage  
 M Manhole
- Basins**  
 O Overland Flow  
 U SCS Unit CN  
 S SBRM CN  
 Y SCS Unit GA  
 Z SBRM GA
- Links**  
 P Pipe  
 M Meir  
 C Channel  
 D Drop Structure  
 B Bridge  
 R Rating Curve  
 H Reach  
 E Percolation  
 F Filter  
 X Exfil Trench





=====  
 Basins  
 =====

Name: B01A Node: NB01A Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 53.80  
 Area(ac): 61.000 Time Shift(hrs): 0.00  
 Curve Number: 89.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

-----  
 Name: B01B Node: NB01B Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 23.50  
 Area(ac): 41.400 Time Shift(hrs): 0.00  
 Curve Number: 87.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

-----  
 Name: B03A Node: NB03A Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 30.30  
 Area(ac): 14.600 Time Shift(hrs): 0.00  
 Curve Number: 86.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

-----  
 Name: B03B Node: NB03B Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 29.80  
 Area(ac): 24.000 Time Shift(hrs): 0.00  
 Curve Number: 83.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

-----  
 Name: B03C Node: NB03C Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 13.90  
 Area(ac): 4.000 Time Shift(hrs): 0.00  
 Curve Number: 77.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

-----  
 Name: B04A Node: NB04A Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 49.70  
 Area(ac): 28.700 Time Shift(hrs): 0.00  
 Curve Number: 80.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

-----  
 Name: B04B Node: NB04B Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 38.50  
 Area(ac): 16.000 Time Shift(hrs): 0.00  
 Curve Number: 84.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

\* All elevations are NAVD88.

---

Name: B04C	Node: NB04C	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh256	Peaking Factor: 256.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 2.10	
Area(ac): 0.300	Time Shift(hrs): 0.00	
Curve Number: 89.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

---

Name: B05A	Node: NB05A	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh256	Peaking Factor: 256.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 112.40	
Area(ac): 320.600	Time Shift(hrs): 0.00	
Curve Number: 89.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

---

Name: B06A	Node: NB06A	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh256	Peaking Factor: 256.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 41.00	
Area(ac): 24.500	Time Shift(hrs): 0.00	
Curve Number: 86.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

---

Name: B06B	Node: NB06B	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh256	Peaking Factor: 256.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 3.70	
Area(ac): 1.900	Time Shift(hrs): 0.00	
Curve Number: 93.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

---

Name: B07B	Node: NB07B	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh256	Peaking Factor: 256.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 25.90	
Area(ac): 2.700	Time Shift(hrs): 0.00	
Curve Number: 77.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

---

Name: B07D	Node: NB07D	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh256	Peaking Factor: 256.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 3.90	
Area(ac): 8.800	Time Shift(hrs): 0.00	
Curve Number: 89.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

---

Name: B07E	Node: NB07E	Status: Onsite
Group: BASE	Type: SCS Unit Hydrograph CN	
Unit Hydrograph: Uh256	Peaking Factor: 256.0	
Rainfall File:	Storm Duration(hrs): 0.00	
Rainfall Amount(in): 0.000	Time of Conc(min): 29.30	
Area(ac): 8.500	Time Shift(hrs): 0.00	
Curve Number: 83.00	Max Allowable Q(cfs): 999999.000	
DCIA(%): 0.00		

\* All elevations are NAVD88.

```

-----
Name: B08A                      Node: NB08A                      Status: Onsite
Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256          Peaking Factor: 256.0
Rainfall File:                  Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000      Time of Conc(min): 15.30
Area(ac): 1.600                 Time Shift(hrs): 0.00
Curve Number: 77.00             Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B08B                      Node: NB08B                      Status: Onsite
Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256          Peaking Factor: 256.0
Rainfall File:                  Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000      Time of Conc(min): 43.70
Area(ac): 13.100                Time Shift(hrs): 0.00
Curve Number: 87.00             Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B09A                      Node: NB09A                      Status: Onsite
Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256          Peaking Factor: 256.0
Rainfall File:                  Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000      Time of Conc(min): 11.30
Area(ac): 17.300                Time Shift(hrs): 0.00
Curve Number: 82.00             Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B09B                      Node: NB09B                      Status: Onsite
Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256          Peaking Factor: 256.0
Rainfall File:                  Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000      Time of Conc(min): 13.70
Area(ac): 4.500                 Time Shift(hrs): 0.00
Curve Number: 78.00             Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B10                      Node: NB10                      Status: Onsite
Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256          Peaking Factor: 256.0
Rainfall File:                  Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000      Time of Conc(min): 14.40
Area(ac): 2.800                 Time Shift(hrs): 0.00
Curve Number: 75.00             Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B11A                      Node: NB11A                      Status: Onsite
Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256          Peaking Factor: 256.0
Rainfall File:                  Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000      Time of Conc(min): 5.00
Area(ac): 3.700                 Time Shift(hrs): 0.00
Curve Number: 84.00             Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B11B                      Node: NB11B                      Status: Onsite
Group: BASE                      Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256          Peaking Factor: 256.0
Rainfall File:                  Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000      Time of Conc(min): 47.90
Area(ac): 19.200                Time Shift(hrs): 0.00
Curve Number: 86.00             Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

\* All elevations are NAVD88.

```

-----
Name: B12                      Node: NB12                      Status: Onsite
Group: BASE                    Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                Peaking Factor: 256.0
Rainfall File:                      Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000          Time of Conc(min): 24.10
Area(ac): 12.500                    Time Shift(hrs): 0.00
Curve Number: 80.00                 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B13                      Node: NB13                      Status: Onsite
Group: BASE                    Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                Peaking Factor: 256.0
Rainfall File:                      Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000          Time of Conc(min): 20.00
Area(ac): 19.700                    Time Shift(hrs): 0.00
Curve Number: 85.00                 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B14                      Node: NB14                      Status: Onsite
Group: BASE                    Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                Peaking Factor: 256.0
Rainfall File:                      Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000          Time of Conc(min): 10.00
Area(ac): 5.600                     Time Shift(hrs): 0.00
Curve Number: 87.00                 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B15                      Node: NB15                      Status: Onsite
Group: BASE                    Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                Peaking Factor: 256.0
Rainfall File:                      Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000          Time of Conc(min): 10.00
Area(ac): 10.100                    Time Shift(hrs): 0.00
Curve Number: 87.00                 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B16                      Node: NB16                      Status: Onsite
Group: BASE                    Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                Peaking Factor: 256.0
Rainfall File:                      Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000          Time of Conc(min): 10.00
Area(ac): 19.900                    Time Shift(hrs): 0.00
Curve Number: 87.00                 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B17                      Node: NB17                      Status: Onsite
Group: BASE                    Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                Peaking Factor: 256.0
Rainfall File:                      Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000          Time of Conc(min): 10.00
Area(ac): 8.000                     Time Shift(hrs): 0.00
Curve Number: 87.00                 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

```

-----
Name: B18                      Node: NB18                      Status: Onsite
Group: BASE                    Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256                Peaking Factor: 256.0
Rainfall File:                      Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000          Time of Conc(min): 10.00
Area(ac): 1.300                     Time Shift(hrs): 0.00
Curve Number: 87.00                 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00
    
```

\* All elevations are NAVD88.

---

Name: B19 Group: BASE	Node: NB19 Type: SCS Unit Hydrograph CN	Status: Onsite
Unit Hydrograph: Uh256 Rainfall File: Rainfall Amount(in): 0.000 Area(ac): 4.000 Curve Number: 87.00 DCIA(%): 0.00	Peaking Factor: 256.0 Storm Duration(hrs): 0.00 Time of Conc(min): 10.00 Time Shift(hrs): 0.00 Max Allowable Q(cfs): 999999.000	

---

Name: BSMF1 Group: BASE	Node: SMF1wet Type: SCS Unit Hydrograph CN	Status: Onsite
Unit Hydrograph: Uh484 Rainfall File: Rainfall Amount(in): 0.000 Area(ac): 6.800 Curve Number: 93.00 DCIA(%): 0.00	Peaking Factor: 484.0 Storm Duration(hrs): 0.00 Time of Conc(min): 12.66 Time Shift(hrs): 0.00 Max Allowable Q(cfs): 999999.000	

---

Name: BSMF11 Group: BASE	Node: SMF11wet Type: SCS Unit Hydrograph CN	Status: Onsite
Unit Hydrograph: Uh484 Rainfall File: Rainfall Amount(in): 0.000 Area(ac): 5.000 Curve Number: 93.00 DCIA(%): 0.00	Peaking Factor: 484.0 Storm Duration(hrs): 0.00 Time of Conc(min): 13.14 Time Shift(hrs): 0.00 Max Allowable Q(cfs): 999999.000	

---

Name: BSMF2 Group: BASE	Node: SMF2wet Type: SCS Unit Hydrograph CN	Status: Onsite
Unit Hydrograph: Uh484 Rainfall File: Rainfall Amount(in): 0.000 Area(ac): 27.600 Curve Number: 93.00 DCIA(%): 0.00	Peaking Factor: 484.0 Storm Duration(hrs): 0.00 Time of Conc(min): 21.08 Time Shift(hrs): 0.00 Max Allowable Q(cfs): 999999.000	

---

Name: BSMF5 Group: BASE	Node: SMF5wet Type: SCS Unit Hydrograph CN	Status: Onsite
Unit Hydrograph: Uh484 Rainfall File: Rainfall Amount(in): 0.000 Area(ac): 30.700 Curve Number: 93.00 DCIA(%): 0.00	Peaking Factor: 484.0 Storm Duration(hrs): 0.00 Time of Conc(min): 26.27 Time Shift(hrs): 0.00 Max Allowable Q(cfs): 999999.000	

---

Name: BSMF7dry Group: BASE	Node: SMF7dry Type: SCS Unit Hydrograph CN	Status: Onsite
Unit Hydrograph: Uh484 Rainfall File: Rainfall Amount(in): 0.000 Area(ac): 6.200 Curve Number: 93.00 DCIA(%): 0.00	Peaking Factor: 484.0 Storm Duration(hrs): 0.00 Time of Conc(min): 13.71 Time Shift(hrs): 0.00 Max Allowable Q(cfs): 999999.000	

---

Name: BSMF7wet Group: BASE	Node: SMF7wet Type: SCS Unit Hydrograph CN	Status: Onsite
Unit Hydrograph: Uh484 Rainfall File: Rainfall Amount(in): 0.000 Area(ac): 1.500 Curve Number: 100.00 DCIA(%): 0.00	Peaking Factor: 484.0 Storm Duration(hrs): 0.00 Time of Conc(min): 10.00 Time Shift(hrs): 0.00 Max Allowable Q(cfs): 999999.000	

---

\* All elevations are NAVD88.

Name: BSouth Node: NBSouth Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 59.70  
 Area(ac): 34.800 Time Shift(hrs): 0.00  
 Curve Number: 82.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

-----  
 Name: CH-Lake3 Node: NCH-Lake3 Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 33.70  
 Area(ac): 18.500 Time Shift(hrs): 0.00  
 Curve Number: 93.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

-----  
 Name: DEPR Node: NDEPR Status: Onsite  
 Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0  
 Rainfall File: Storm Duration(hrs): 0.00  
 Rainfall Amount(in): 0.000 Time of Conc(min): 37.90  
 Area(ac): 30.900 Time Shift(hrs): 0.00  
 Curve Number: 86.00 Max Allowable Q(cfs): 999999.000  
 DCIA(%): 0.00

=====  
 === Nodes =====  
 =====

Name: NALPOND1 Base Flow(cfs): 0.000 Init Stage(ft): 1.000  
 Group: BASE Warn Stage(ft): 25.560  
 Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	1.000
50.00	1.000

-----  
 Name: NB01A Base Flow(cfs): 0.000 Init Stage(ft): 23.530  
 Group: BASE Warn Stage(ft): 32.060  
 Type: Stage/Area

Stage(ft)	Area(ac)
22.330	0.0010
23.330	0.1000
24.330	15.5000
25.330	31.9000
26.330	42.8000
27.330	52.1000
28.330	58.3000
29.330	60.8000
30.330	60.9000
31.330	61.0000
32.060	61.0000

-----  
 Name: NB01B Base Flow(cfs): 0.000 Init Stage(ft): 22.210  
 Group: BASE Warn Stage(ft): 51.460  
 Type: Stage/Area

Stage(ft)	Area(ac)
22.210	0.0010
22.610	0.0010
23.610	0.7000
24.610	17.7000
25.610	27.2000
26.610	34.2000
27.610	37.8000
28.610	39.1000
29.610	40.1000

\* All elevations are NAVD88.

30.610	40.7000
31.610	40.8000
32.610	40.8000
33.610	40.8000
34.610	40.9000
35.610	40.9000
36.610	40.9000
37.610	41.0000
38.610	41.0000
39.610	41.0000
40.610	41.1000
41.610	41.1000
42.610	41.1000
43.610	41.2000
44.610	41.2000
45.610	41.2000
46.610	41.3000
47.610	41.3000
48.610	41.3000
49.610	41.4000
50.610	41.4000
51.510	41.4000

-----

Name: NB03A	Base Flow(cfs): 0.000	Init Stage(ft): 24.060
Group: BASE		Warn Stage(ft): 32.010
Type: Stage/Area		

Stage(ft)	Area(ac)
23.190	0.0010
24.190	0.3000
25.190	6.5000
26.190	11.5000
27.190	13.5000
28.190	14.1000
29.190	14.4000
30.190	14.6000
31.190	14.6000
32.010	14.6000

-----

Name: NB03B	Base Flow(cfs): 0.000	Init Stage(ft): 24.060
Group: BASE		Warn Stage(ft): 31.420
Type: Stage/Area		

Stage(ft)	Area(ac)
23.790	0.0010
24.790	7.3000
25.790	18.1000
26.790	21.9000
27.790	23.2000
28.790	23.7000
29.790	24.0000
30.790	24.0000
31.420	24.0000

-----

Name: NB03C	Base Flow(cfs): 0.000	Init Stage(ft): 24.940
Group: BASE		Warn Stage(ft): 29.650
Type: Stage/Area		

Stage(ft)	Area(ac)
24.480	0.0010
25.480	1.4000
26.480	2.8000
27.480	3.6000
28.480	3.9000
29.650	4.0000

-----

Name: NB04A	Base Flow(cfs): 0.000	Init Stage(ft): 22.410
Group: BASE		Warn Stage(ft): 31.780
Type: Stage/Area		

Stage(ft)	Area(ac)
22.160	0.0010
23.870	0.8000
24.870	5.5000
25.870	17.1000
26.870	26.6000

\* All elevations are NAVD88.

27.870	28.1000
28.870	28.5000
29.870	28.6000
30.870	28.6000
31.780	28.7000

Name: NB04B	Base Flow(cfs): 0.000	Init Stage(ft): 22.410
Group: BASE		Warn Stage(ft): 31.430
Type: Stage/Area		

Stage(ft)	Area(ac)
20.950	0.0010
22.230	0.0020
22.260	0.0030
23.260	0.0040
24.260	2.9000
25.260	5.7000
26.260	10.2000
27.260	12.8000
28.260	13.9000
29.260	14.6000
30.260	15.5000
31.430	16.0000

Name: NB04C	Base Flow(cfs): 0.000	Init Stage(ft): 20.950
Group: BASE		Warn Stage(ft): 31.000
Type: Stage/Area		

Stage(ft)	Area(ac)
20.950	0.0000
24.000	0.0100
25.000	0.0300
26.000	0.0600
27.000	0.1000
28.000	0.1300
29.000	0.1600
30.000	0.1900
31.000	0.3000

Name: NB05A	Base Flow(cfs): 0.000	Init Stage(ft): 23.820
Group: BASE		Warn Stage(ft): 35.830
Type: Stage/Area		

Stage(ft)	Area(ac)
22.530	0.0010
23.530	0.4000
24.530	65.9000
25.530	168.4000
26.530	235.1000
27.530	285.9000
28.530	311.0000
29.530	317.8000
30.530	319.5000
31.530	320.1000
32.530	320.4000
33.530	320.5000
34.530	320.6000
35.830	320.6000

Name: NB06A	Base Flow(cfs): 0.000	Init Stage(ft): 23.860
Group: BASE		Warn Stage(ft): 31.820
Type: Stage/Area		

Stage(ft)	Area(ac)
23.660	0.0010
24.940	11.0000
25.940	15.6000
26.940	21.0000
27.940	23.0000
28.940	24.0000
29.940	24.4000
30.940	24.5000
31.820	24.5000

Name: NB06B	Base Flow(cfs): 0.000	Init Stage(ft): 23.420
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\* All elevations are NAVD88.



Group: BASE  
Type: Stage/Area

Warn Stage(ft): 31.410

Stage(ft)	Area(ac)
23.370	0.0010
23.970	0.0020
24.970	0.4000
25.970	0.9000
26.970	1.2000
27.970	1.4000
28.970	1.5000
29.970	1.6000
31.410	1.9000

Name: NB07B  
Group: BASE  
Type: Stage/Area

Base Flow(cfs): 0.000

Init Stage(ft): 25.900  
Warn Stage(ft): 30.530

Stage(ft)	Area(ac)
24.250	0.0010
25.250	0.2000
26.250	0.8000
27.250	1.9000
28.250	2.6000
29.250	2.7000
30.530	2.7000

Name: NB07D  
Group: BASE  
Type: Stage/Area

Base Flow(cfs): 0.000

Init Stage(ft): 23.060  
Warn Stage(ft): 30.940

Stage(ft)	Area(ac)
22.880	0.0010
23.880	0.3000
24.880	1.8000
25.880	3.8000
26.880	5.5000
27.880	6.4000
28.880	7.0000
29.940	8.6000
30.940	8.8000

Name: NB07E  
Group: BASE  
Type: Stage/Area

Base Flow(cfs): 0.000

Init Stage(ft): 24.360  
Warn Stage(ft): 30.760

Stage(ft)	Area(ac)
22.900	0.0010
23.900	0.9000
24.900	4.1000
25.900	5.8000
26.900	7.4000
27.900	8.2000
28.900	8.5000
29.900	8.6000
30.760	8.6000

Name: NB08A  
Group: BASE  
Type: Stage/Area

Base Flow(cfs): 0.000

Init Stage(ft): 23.610  
Warn Stage(ft): 28.940

Stage(ft)	Area(ac)
23.220	0.0010
24.220	0.3000
25.220	0.5000
26.220	0.9000
27.220	1.5000
28.220	1.6000
28.940	1.6000

Name: NB08B  
Group: BASE

Base Flow(cfs): 0.000

Init Stage(ft): 21.440  
Warn Stage(ft): 30.590

\* All elevations are NAVD88.

Type: Stage/Area

Stage(ft)	Area(ac)
21.440	0.0010
22.310	0.0020
23.310	2.1000
24.310	4.9000
25.310	6.3000
26.310	8.5000
27.310	10.7000
28.310	11.6000
29.310	12.4000
30.590	13.1000

Name: NB09A                      Base Flow(cfs): 0.000                      Init Stage(ft): 23.910  
 Group: BASE                      Warn Stage(ft): 31.790  
 Type: Stage/Area

Stage(ft)	Area(ac)
23.170	0.0010
24.170	5.4000
25.170	7.0000
26.170	10.0000
27.170	14.1000
28.170	16.7000
29.170	17.2000
30.170	17.3000
31.170	17.3000
31.790	17.3000

Name: NB09B                      Base Flow(cfs): 0.000                      Init Stage(ft): 23.910  
 Group: BASE                      Warn Stage(ft): 30.360  
 Type: Stage/Area

Stage(ft)	Area(ac)
23.330	0.0010
24.330	0.5000
25.330	0.9000
26.330	2.0000
27.330	3.8000
28.330	4.4000
29.330	4.5000
30.360	4.5000

Name: NB10                      Base Flow(cfs): 0.000                      Init Stage(ft): 25.650  
 Group: BASE                      Warn Stage(ft): 31.540  
 Type: Stage/Area

Stage(ft)	Area(ac)
23.290	0.0010
24.290	0.9000
25.290	1.4000
26.290	1.8000
27.290	2.2000
28.290	2.6000
29.290	2.8000
30.290	2.8000
31.540	2.8000

Name: NB11A                      Base Flow(cfs): 0.000                      Init Stage(ft): 21.660  
 Group: BASE                      Warn Stage(ft): 31.210  
 Type: Stage/Area

Stage(ft)	Area(ac)
21.510	0.0010
22.720	0.0010
23.720	1.2000
24.720	1.4000
25.720	1.7000
26.720	2.5000
27.720	3.2000
28.720	3.6000
29.720	3.7000

\* All elevations are NAVD88.

31.210            3.7000

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 Name: NB11B                    Base Flow(cfs): 0.000            Init Stage(ft): 21.660  
 Group: BASE                    Warn Stage(ft): 30.380  
 Type: Stage/Area

Stage(ft)	Area(ac)
21.510	0.0010
22.440	0.0020
23.440	6.3000
24.440	8.9000
25.440	11.2000
26.440	15.6000
27.440	18.6000
28.440	19.1000
29.440	19.2000
30.380	19.2000

-----  
 Name: NB12                    Base Flow(cfs): 0.000            Init Stage(ft): 24.570  
 Group: BASE                    Warn Stage(ft): 30.426  
 Type: Stage/Area

Stage(ft)	Area(ac)
22.890	0.0010
23.390	0.5142
23.890	1.1255
24.390	1.3699
24.890	1.6133
25.390	2.2136
25.890	3.5566
26.390	6.4744
26.890	9.4341
27.390	11.2104
27.890	12.0368
28.390	12.3284
28.890	12.4219
29.390	12.4478
29.890	12.4627
30.426	12.4680

-----  
 Name: NB13                    Base Flow(cfs): 0.000            Init Stage(ft): 21.300  
 Group: BASE                    Warn Stage(ft): 30.010  
 Type: Stage/Area

Stage(ft)	Area(ac)
21.000	0.0010
21.010	3.6000
22.010	9.2000
23.010	11.2000
24.010	13.5000
25.010	17.5000
26.010	19.5000
27.010	19.7000
28.010	19.7000
29.010	19.7000
30.010	19.7000

-----  
 Name: NB14                    Base Flow(cfs): 0.000            Init Stage(ft): 21.600  
 Group: BASE                    Warn Stage(ft): 24.900  
 Type: Stage/Area

Stage(ft)	Area(ac)
21.600	0.5000
21.900	0.5650
24.900	0.8410

-----  
 Name: NB15                    Base Flow(cfs): 0.000            Init Stage(ft): 20.360  
 Group: BASE                    Warn Stage(ft): 26.900  
 Type: Stage/Area

Stage(ft)	Area(ac)
20.360	0.0980

\* All elevations are NAVD88.

20.900 0.1140  
 20.910 0.1290  
 26.900 0.5030

Name: NB16 Base Flow(cfs): 0.000 Init Stage(ft): 19.900  
 Group: BASE Warn Stage(ft): 24.900  
 Type: Stage/Area

Stage(ft)	Area(ac)
19.900	0.0010
21.900	0.5650
24.900	0.8410

Name: NB17 Base Flow(cfs): 0.000 Init Stage(ft): 19.900  
 Group: BASE Warn Stage(ft): 24.900  
 Type: Stage/Area

Stage(ft)	Area(ac)
17.400	0.0010
19.900	0.7650
23.900	1.0720
24.900	3.1000

Name: NB18 Base Flow(cfs): 0.000 Init Stage(ft): 19.900  
 Group: BASE Warn Stage(ft): 24.900  
 Type: Stage/Area

Stage(ft)	Area(ac)
17.160	0.0010
19.900	0.1070
23.900	0.2800
24.900	0.3700

Name: NB19 Base Flow(cfs): 0.000 Init Stage(ft): 19.900  
 Group: BASE Warn Stage(ft): 24.100  
 Type: Stage/Area

Stage(ft)	Area(ac)
19.340	0.0010
19.900	1.4480
22.900	1.8340
24.100	2.1000

Name: NBSouth Base Flow(cfs): 0.000 Init Stage(ft): 23.530  
 Group: BASE Warn Stage(ft): 33.668  
 Type: Stage/Area

Stage(ft)	Area(ac)
22.389	0.0010
22.889	0.0143
23.389	0.0964
23.889	1.2391
24.389	12.3783
24.889	22.2377
25.389	27.0965
25.889	31.2305
26.389	33.3190
26.889	34.2642
27.389	34.5225
27.889	34.6654
28.389	34.7297
28.889	34.7584
29.389	34.7687
29.889	34.7740
33.668	34.7740

Name: NCH-Lake15 Base Flow(cfs): 0.000 Init Stage(ft): 1.000  
 Group: BASE Warn Stage(ft): 24.680  
 Type: Time/Stage

\* All elevations are NAVD88.

Time(hrs)	Stage(ft)
0.00	1.000
50.00	1.000

Name: NCH-Lake3      Base Flow(cfs): 0.000      Init Stage(ft): 23.940  
 Group: BASE      Warn Stage(ft): 30.979  
 Type: Stage/Area

Stage(ft)	Area(ac)
22.901	0.0010
23.401	0.7490
23.901	1.9025
24.401	5.9894
24.901	9.5116
25.401	10.7725
25.901	11.5473
26.401	12.1419
26.901	12.9138
27.401	13.8051
27.901	14.8921
28.401	16.5548
28.901	17.9201
29.401	18.4361
29.901	18.5072
30.401	18.5107
30.979	18.5147

Name: NDEPR      Base Flow(cfs): 0.000      Init Stage(ft): 21.440  
 Group: BASE      Warn Stage(ft): 31.031  
 Type: Stage/Area

Stage(ft)	Area(ac)
21.280	0.0010
22.221	0.0020
22.721	0.4999
23.221	3.7902
23.721	6.7183
24.221	8.6519
24.721	10.1039
25.221	12.1361
25.721	15.3214
26.221	19.0639
26.721	22.4776
27.221	24.5437
27.721	25.7099
28.221	26.5060
28.721	27.1126
29.221	27.8702
29.721	29.3618
30.221	30.6112
30.721	30.8219
31.031	30.9188

Name: NOFFSITE      Base Flow(cfs): 0.000      Init Stage(ft): 15.000  
 Group: BASE      Warn Stage(ft): 15.000  
 Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	15.000
50.00	15.000

Name: NOFFSITE-S      Base Flow(cfs): 0.000      Init Stage(ft): 24.500  
 Group: BASE      Warn Stage(ft): 24.500  
 Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	24.500
50.00	24.500

Name: NOFFSITE-W      Base Flow(cfs): 0.000      Init Stage(ft): 18.900  
 Group: BASE      Warn Stage(ft): 24.000  
 Type: Time/Stage

\* All elevations are NAVD88.

Time(hrs)	Stage(ft)
0.00	18.900
16.77	24.000
50.00	23.000

Name: SMF11wet      Base Flow(cfs): 0.000      Init Stage(ft): 23.860  
 Group: BASE      Warn Stage(ft): 27.860  
 Type: Stage/Area

Stage(ft)	Area(ac)
13.860	0.1700
23.860	0.7200
27.860	1.0100

Name: SMF1wet      Base Flow(cfs): 0.000      Init Stage(ft): 24.350  
 Group: BASE      Warn Stage(ft): 27.360  
 Type: Stage/Area

Noted as Existing Wet Pond

Stage(ft)	Area(ac)
18.860	0.8600
24.360	2.1500
27.360	2.8800

Name: SMF2wet      Base Flow(cfs): 0.000      Init Stage(ft): 24.860  
 Group: BASE      Warn Stage(ft): 27.860  
 Type: Stage/Area

Noted as Borrow Pit

Stage(ft)	Area(ac)
1.860	5.5100
24.860	8.2400
27.860	8.9500

Name: SMF5wet      Base Flow(cfs): 0.000      Init Stage(ft): 24.860  
 Group: BASE      Warn Stage(ft): 27.860  
 Type: Stage/Area

Stage(ft)	Area(ac)
1.860	8.3400
24.860	11.5500
27.860	12.3700

Name: SMF7dry      Base Flow(cfs): 0.000      Init Stage(ft): 27.350  
 Group: BASE      Warn Stage(ft): 29.860  
 Type: Stage/Area

Stage(ft)	Area(ac)
16.860	0.0010
26.900	0.5400
27.350	0.5800
29.860	0.8000

Name: SMF7wet      Base Flow(cfs): 0.000      Init Stage(ft): 25.360  
 Group: BASE      Warn Stage(ft): 29.860  
 Type: Stage/Area

Stage(ft)	Area(ac)
16.860	0.4200
25.360	0.7500
29.860	1.0600

=====  
 === Cross Sections =====  
 =====  
 Name: W01A-01B      Group: BASE

\* All elevations are NAVD88.

Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	24.180	0.150000
2.500	24.160	0.150000
7.500	24.060	0.150000
12.500	24.020	0.150000
17.500	23.990	0.150000
22.500	23.940	0.150000
27.500	23.890	0.150000
32.500	23.860	0.150000
37.500	23.840	0.150000
42.500	23.830	0.150000
47.500	23.830	0.150000
52.500	23.840	0.150000
57.500	23.870	0.150000
63.990	23.900	0.150000
66.490	23.910	0.150000
71.490	23.940	0.150000
76.490	23.970	0.150000
81.490	23.970	0.150000
86.490	23.960	0.150000
91.490	23.950	0.150000
96.490	23.940	0.150000
101.490	23.930	0.150000
106.490	23.930	0.150000
111.490	23.950	0.150000
116.490	23.980	0.150000
121.490	24.010	0.150000
126.490	24.060	0.150000
131.490	24.130	0.150000
136.490	24.240	0.150000
141.490	24.310	0.150000
146.490	24.410	0.150000
151.490	24.450	0.150000
156.490	24.350	0.150000
161.490	24.220	0.150000
166.490	24.130	0.150000
171.490	24.130	0.150000
178.260	24.140	0.150000
180.760	24.140	0.150000
185.760	24.120	0.150000
190.760	24.140	0.150000
195.760	24.060	0.150000
200.760	24.060	0.150000
205.760	23.990	0.150000
210.760	23.920	0.150000
215.760	23.980	0.150000
220.760	24.130	0.150000
225.760	24.280	0.150000
230.760	24.410	0.150000
235.760	24.520	0.150000
240.760	24.590	0.150000
245.760	24.620	0.150000
250.760	24.700	0.150000
255.760	24.880	0.150000
260.760	24.890	0.150000
265.760	24.690	0.150000
270.760	24.460	0.150000
275.760	24.500	0.150000
280.760	24.550	0.150000
285.760	24.500	0.150000
290.760	24.440	0.150000
295.760	24.500	0.150000
300.760	24.680	0.150000
305.760	24.890	0.150000
310.760	24.790	0.150000
315.760	24.490	0.150000
320.760	24.280	0.150000
325.760	24.170	0.150000
330.760	24.170	0.150000
335.760	24.380	0.150000
340.760	24.690	0.150000
345.760	24.920	0.150000
350.760	25.000	0.150000
355.760	24.960	0.150000
360.760	24.790	0.150000
365.960	24.680	0.150000
368.460	24.690	0.150000
373.460	24.350	0.150000
378.460	24.520	0.150000
383.460	24.800	0.150000
388.460	25.080	0.150000
393.460	25.270	0.150000
398.460	25.140	0.150000
403.460	24.810	0.150000
408.460	24.890	0.150000
413.460	25.100	0.150000
418.460	25.320	0.150000

\* All elevations are NAVD88.

423.460	25.550	0.150000
428.460	25.780	0.150000
433.460	25.940	0.150000
438.460	26.070	0.150000
443.460	26.190	0.150000
448.460	26.290	0.150000
453.460	26.390	0.150000
458.460	26.500	0.150000
463.460	26.640	0.150000
468.460	26.800	0.150000
473.460	26.930	0.150000
478.460	27.020	0.150000
483.460	26.740	0.150000
488.460	26.380	0.150000
493.460	26.020	0.150000
498.460	26.150	0.150000
503.460	26.320	0.150000
508.460	26.130	0.150000
513.460	25.910	0.150000
518.460	25.620	0.150000
523.460	25.210	0.150000
528.460	24.780	0.150000
533.460	24.370	0.150000
538.460	23.980	0.150000
543.460	24.610	0.150000
548.460	25.450	0.150000
553.460	25.990	0.150000
558.460	26.390	0.150000
562.330	26.430	0.150000

Name: W01A-South                      Group: BASE  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	26.230	0.150000
1.590	26.210	0.150000
6.570	26.260	0.150000
11.560	26.300	0.150000
16.540	26.280	0.150000
21.520	26.280	0.150000
26.500	26.260	0.150000
31.480	26.250	0.150000
36.460	26.240	0.150000
41.440	26.260	0.150000
46.420	26.320	0.150000
51.400	26.300	0.150000
56.380	26.300	0.150000
61.360	26.280	0.150000
66.340	26.260	0.150000
71.320	26.310	0.150000
76.310	26.330	0.150000
81.290	26.300	0.150000
86.270	26.210	0.150000
91.250	26.180	0.150000
96.230	26.180	0.150000
101.210	26.190	0.150000
106.190	26.250	0.150000
111.170	26.290	0.150000
116.150	26.270	0.150000
121.130	26.240	0.150000
126.110	26.200	0.150000
131.090	26.280	0.150000
136.080	26.220	0.150000
141.060	26.200	0.150000
146.040	26.250	0.150000
151.020	26.240	0.150000
156.000	26.150	0.150000
160.980	26.100	0.150000
165.960	26.130	0.150000
170.940	26.230	0.150000
175.920	26.230	0.150000
180.900	26.220	0.150000
185.880	26.240	0.150000
190.860	26.280	0.150000
195.850	26.280	0.150000
200.830	26.230	0.150000
205.810	26.190	0.150000
210.790	26.290	0.150000
215.770	26.280	0.150000
220.750	26.260	0.150000
225.730	26.300	0.150000
230.710	26.330	0.150000
235.690	26.330	0.150000
240.670	26.190	0.150000
245.650	26.100	0.150000
250.630	26.200	0.150000
255.610	26.210	0.150000
260.600	26.280	0.150000

\* All elevations are NAVD88.



265.580	26.250	0.150000
270.560	26.350	0.150000
275.540	26.330	0.150000
280.520	26.210	0.150000
285.500	26.140	0.150000
290.480	26.250	0.150000
295.460	26.190	0.150000
300.440	26.260	0.150000
305.420	26.240	0.150000
310.400	26.160	0.150000
315.380	26.020	0.150000
320.360	26.080	0.150000
325.350	26.160	0.150000
330.330	26.140	0.150000
335.310	26.180	0.150000
340.290	26.240	0.150000
345.270	26.150	0.150000
350.250	26.200	0.150000
355.230	26.210	0.150000
360.210	26.230	0.150000
365.190	26.250	0.150000
370.170	26.280	0.150000
375.150	26.270	0.150000
380.130	26.220	0.150000
385.120	26.140	0.150000
390.100	26.130	0.150000
395.080	26.200	0.150000
400.060	26.220	0.150000
405.040	26.250	0.150000
410.020	26.240	0.150000
415.000	26.250	0.150000
419.980	26.290	0.150000
424.960	26.310	0.150000
429.940	26.190	0.150000
434.920	26.120	0.150000
439.900	26.160	0.150000
444.880	26.150	0.150000
449.870	26.120	0.150000
454.850	26.230	0.150000
459.830	26.220	0.150000
464.810	26.100	0.150000
469.790	26.140	0.150000
474.770	26.280	0.150000
479.750	26.330	0.150000
484.730	26.320	0.150000
489.710	26.170	0.150000
494.690	26.120	0.150000
499.670	26.190	0.150000
504.650	26.100	0.150000
509.630	26.020	0.150000
514.620	26.180	0.150000
519.600	26.270	0.150000
524.580	26.200	0.150000
529.560	26.090	0.150000
534.540	26.120	0.150000
539.520	26.070	0.150000
544.500	26.010	0.150000
549.480	26.020	0.150000
554.460	26.100	0.150000
559.440	26.040	0.150000
564.420	26.070	0.150000
569.400	26.170	0.150000
574.390	26.240	0.150000
579.370	26.150	0.150000
584.350	26.100	0.150000
589.330	26.030	0.150000
594.310	26.050	0.150000
599.290	26.080	0.150000
604.270	26.120	0.150000
609.250	26.260	0.150000
614.230	26.100	0.150000
619.210	26.070	0.150000
624.190	25.900	0.150000
629.170	25.790	0.150000
634.150	25.930	0.150000
639.140	25.990	0.150000
644.120	25.820	0.150000
649.100	25.940	0.150000
654.080	25.800	0.150000
659.060	25.870	0.150000
664.040	25.960	0.150000
669.020	25.970	0.150000
674.000	25.880	0.150000
678.980	25.860	0.150000
683.960	25.900	0.150000
688.940	25.870	0.150000
693.920	26.010	0.150000
698.910	25.960	0.150000
703.890	25.920	0.150000
708.870	25.860	0.150000
713.850	25.910	0.150000
718.830	25.920	0.150000

\* All elevations are NAVD88.

723.810	25.950	0.150000
728.790	25.870	0.150000
733.770	26.090	0.150000
738.750	26.040	0.150000
743.730	26.040	0.150000
748.710	26.040	0.150000
753.680	26.050	0.150000
758.650	26.080	0.150000
763.610	26.080	0.150000
768.580	26.050	0.150000
773.550	25.870	0.150000
778.510	25.760	0.150000
783.480	25.840	0.150000
788.450	25.870	0.150000
793.410	25.880	0.150000
798.380	25.970	0.150000
803.350	26.080	0.150000
808.320	26.120	0.150000
813.280	26.190	0.150000
818.250	26.060	0.150000
823.220	25.990	0.150000
828.180	26.040	0.150000
833.150	26.170	0.150000
838.120	26.250	0.150000
843.080	26.240	0.150000
848.050	26.170	0.150000
853.020	26.090	0.150000
857.980	26.240	0.150000
862.950	26.240	0.150000
867.920	26.150	0.150000
872.880	26.150	0.150000
877.850	26.170	0.150000
882.820	26.240	0.150000
887.780	26.220	0.150000
892.750	26.120	0.150000
897.720	26.080	0.150000
902.680	26.130	0.150000
907.650	26.170	0.150000
912.620	26.150	0.150000
917.590	26.160	0.150000
922.550	26.190	0.150000
927.520	26.160	0.150000
932.490	26.140	0.150000
937.450	26.170	0.150000
942.420	26.190	0.150000
947.390	26.220	0.150000
952.350	26.200	0.150000
957.320	26.260	0.150000
962.290	26.330	0.150000
967.250	26.240	0.150000
972.220	26.230	0.150000
977.190	26.280	0.150000
982.150	26.300	0.150000
987.120	26.340	0.150000
992.090	26.320	0.150000
997.060	26.220	0.150000
1002.020	26.290	0.150000
1006.990	26.300	0.150000
1011.960	26.210	0.150000
1016.920	26.220	0.150000
1021.890	26.240	0.150000
1026.860	26.270	0.150000
1031.820	26.240	0.150000
1036.790	26.180	0.150000
1041.760	26.110	0.150000
1046.720	26.150	0.150000
1051.690	26.230	0.150000
1056.660	26.220	0.150000
1061.620	26.260	0.150000
1066.590	26.290	0.150000
1071.560	26.200	0.150000
1076.520	26.180	0.150000
1081.490	26.300	0.150000
1086.460	26.420	0.150000
1091.430	26.390	0.150000
1096.390	26.380	0.150000
1101.360	26.360	0.150000
1106.330	26.390	0.150000
1111.290	26.420	0.150000
1116.260	26.450	0.150000
1121.230	26.460	0.150000
1126.190	26.440	0.150000
1131.160	26.420	0.150000
1136.130	26.380	0.150000
1141.090	26.460	0.150000
1146.060	26.390	0.150000
1151.030	26.450	0.150000
1155.990	26.400	0.150000
1160.960	26.420	0.150000
1165.930	26.470	0.150000
1170.890	26.500	0.150000
1175.860	26.490	0.150000

\* All elevations are NAVD88.

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1180.830	26.470	0.150000
1185.800	26.500	0.150000
1190.760	26.540	0.150000
1195.730	26.470	0.150000
1200.700	26.440	0.150000
1205.660	26.330	0.150000
1210.630	26.360	0.150000
1215.600	26.350	0.150000
1220.560	26.430	0.150000
1225.530	26.460	0.150000
1230.500	26.460	0.150000
1235.460	26.420	0.150000
1240.430	26.440	0.150000
1245.400	26.550	0.150000
1250.360	26.400	0.150000
1255.330	26.330	0.150000
1260.300	26.310	0.150000
1265.260	26.290	0.150000
1270.230	26.370	0.150000
1275.200	26.430	0.150000
1280.170	26.340	0.150000
1285.130	26.190	0.150000
1290.100	26.350	0.150000
1295.070	26.350	0.150000
1300.030	26.400	0.150000
1305.000	26.290	0.150000
1309.970	26.270	0.150000
1314.930	26.290	0.150000
1319.900	26.170	0.150000
1324.870	26.170	0.150000
1329.830	26.170	0.150000
1334.800	26.140	0.150000
1339.770	26.170	0.150000
1344.730	26.210	0.150000
1349.700	26.180	0.150000
1354.670	26.110	0.150000
1359.640	26.120	0.150000
1364.600	26.090	0.150000
1369.570	26.020	0.150000
1374.540	26.090	0.150000
1379.500	26.070	0.150000
1384.470	26.060	0.150000
1389.440	26.110	0.150000
1394.400	25.990	0.150000
1399.370	25.920	0.150000
1404.340	25.960	0.150000
1409.300	25.930	0.150000
1414.270	25.850	0.150000
1419.240	25.840	0.150000
1424.200	25.870	0.150000
1429.170	25.920	0.150000
1434.140	25.960	0.150000
1439.100	25.970	0.150000
1444.070	25.970	0.150000
1449.040	25.970	0.150000
1454.000	26.010	0.150000
1458.990	25.970	0.150000
1463.970	25.940	0.150000
1468.950	25.910	0.150000
1473.930	25.880	0.150000
1478.910	25.850	0.150000
1483.890	25.820	0.150000
1488.870	25.770	0.150000
1493.850	25.750	0.150000
1498.830	25.760	0.150000
1503.810	25.750	0.150000
1508.800	25.710	0.150000
1513.780	25.730	0.150000
1518.760	25.780	0.150000
1523.740	25.790	0.150000
1528.720	25.790	0.150000
1533.700	25.780	0.150000
1538.680	25.850	0.150000
1543.660	25.880	0.150000
1548.640	25.760	0.150000
1553.620	25.620	0.150000
1558.600	25.700	0.150000
1563.590	25.830	0.150000
1568.570	25.940	0.150000
1573.550	25.930	0.150000
1578.530	25.820	0.150000
1583.510	25.760	0.150000
1588.490	25.790	0.150000
1593.470	25.960	0.150000
1598.450	25.850	0.150000
1603.430	25.840	0.150000
1608.410	25.870	0.150000
1613.400	25.770	0.150000
1618.380	25.780	0.150000
1623.360	25.890	0.150000
1628.340	25.910	0.150000
1633.320	25.800	0.150000

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\* All elevations are NAVD88.

1638.300	25.930	0.150000
1643.280	25.840	0.150000
1648.260	25.940	0.150000
1653.240	25.950	0.150000
1658.220	25.990	0.150000
1663.200	26.090	0.150000
1668.190	25.890	0.150000
1673.170	25.820	0.150000
1678.150	25.820	0.150000
1683.130	25.880	0.150000
1688.110	26.000	0.150000
1693.090	26.000	0.150000
1698.070	26.090	0.150000
1703.050	26.100	0.150000
1708.030	26.170	0.150000
1713.010	26.160	0.150000
1717.990	26.140	0.150000
1722.980	26.120	0.150000
1727.960	26.170	0.150000
1732.940	26.250	0.150000
1737.920	26.300	0.150000
1742.900	26.280	0.150000
1747.880	26.320	0.150000
1752.860	26.330	0.150000
1757.840	26.360	0.150000
1762.820	26.270	0.150000
1767.800	26.280	0.150000
1772.780	26.440	0.150000
1777.770	26.530	0.150000
1782.750	26.470	0.150000
1787.730	26.470	0.150000
1792.710	26.460	0.150000
1797.690	26.470	0.150000
1802.670	26.420	0.150000
1807.650	26.360	0.150000
1812.630	26.410	0.150000
1817.610	26.450	0.150000
1822.590	26.470	0.150000
1827.570	26.470	0.150000
1832.560	26.400	0.150000
1837.540	26.390	0.150000
1842.520	26.370	0.150000
1847.500	26.310	0.150000
1852.480	26.230	0.150000
1857.460	26.190	0.150000
1862.440	26.210	0.150000
1867.420	26.260	0.150000
1872.400	26.280	0.150000
1877.380	26.250	0.150000
1882.370	26.300	0.150000
1887.350	26.340	0.150000
1892.330	26.280	0.150000
1897.310	26.230	0.150000
1902.290	26.270	0.150000
1907.270	26.260	0.150000
1912.250	26.180	0.150000
1917.230	26.140	0.150000
1922.210	26.050	0.150000
1927.190	26.110	0.150000
1932.170	26.200	0.150000
1937.160	26.230	0.150000
1942.140	26.290	0.150000
1947.120	26.260	0.150000
1952.100	26.230	0.150000
1957.080	26.270	0.150000
1962.060	26.330	0.150000
1967.040	26.350	0.150000
1972.020	26.410	0.150000
1977.000	26.240	0.150000
1981.980	26.150	0.150000
1986.960	26.230	0.150000
1991.950	26.320	0.150000
1996.930	26.290	0.150000
2001.910	26.240	0.150000
2006.890	26.260	0.150000
2011.870	26.310	0.150000
2016.850	26.350	0.150000
2021.830	26.250	0.150000
2026.810	26.200	0.150000
2031.790	26.230	0.150000
2036.770	26.270	0.150000
2041.760	26.180	0.150000
2046.740	26.160	0.150000
2051.720	26.210	0.150000
2056.700	26.220	0.150000
2061.680	26.220	0.150000
2066.660	26.280	0.150000
2071.640	26.350	0.150000
2076.620	26.300	0.150000
2081.600	26.230	0.150000
2086.580	26.290	0.150000
2091.560	26.310	0.150000

\* All elevations are NAVD88.

2096.550	26.330	0.150000
2101.530	26.270	0.150000
2106.510	26.330	0.150000
2111.490	26.340	0.150000
2116.470	26.260	0.150000
2121.450	26.330	0.150000
2126.430	26.380	0.150000
2131.410	26.400	0.150000
2136.390	26.390	0.150000
2141.370	26.350	0.150000
2146.350	26.340	0.150000
2151.340	26.310	0.150000
2156.320	26.270	0.150000
2161.300	26.230	0.150000
2166.280	26.230	0.150000
2171.260	26.230	0.150000
2176.240	26.170	0.150000
2181.220	26.130	0.150000
2186.200	26.190	0.150000
2191.180	26.250	0.150000
2196.160	26.200	0.150000
2201.140	26.190	0.150000
2206.130	26.210	0.150000
2211.110	26.210	0.150000
2216.090	26.200	0.150000
2221.070	26.260	0.150000
2226.050	26.300	0.150000
2231.030	26.230	0.150000
2236.010	26.150	0.150000
2240.990	26.190	0.150000
2245.970	26.170	0.150000
2250.950	26.130	0.150000
2255.940	26.180	0.150000
2260.920	26.240	0.150000
2265.900	26.220	0.150000
2270.880	26.180	0.150000
2275.860	26.090	0.150000
2280.840	26.110	0.150000
2285.820	26.170	0.150000
2290.800	26.090	0.150000
2295.780	26.000	0.150000
2300.760	25.890	0.150000
2305.740	26.130	0.150000
2310.730	26.240	0.150000
2315.710	26.090	0.150000
2320.690	25.850	0.150000
2325.670	26.010	0.150000
2330.650	26.420	0.150000
2335.630	26.400	0.150000
2340.610	26.260	0.150000
2345.590	26.000	0.150000
2350.570	26.160	0.150000
2355.550	26.130	0.150000
2360.530	25.980	0.150000
2365.530	25.990	0.150000
2370.520	26.030	0.150000
2375.510	25.860	0.150000
2380.500	25.980	0.150000
2385.500	25.840	0.150000
2390.490	25.900	0.150000
2395.480	25.840	0.150000
2400.470	25.820	0.150000
2405.470	25.850	0.150000
2410.460	26.040	0.150000
2415.450	26.200	0.150000
2420.440	26.100	0.150000
2425.430	25.910	0.150000
2430.430	25.860	0.150000
2435.420	25.850	0.150000
2440.410	25.970	0.150000
2445.400	26.070	0.150000
2450.400	26.110	0.150000
2455.390	26.110	0.150000
2460.380	26.100	0.150000
2465.370	26.110	0.150000
2468.760	26.120	0.150000

Name: W01B-03B      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	25.970	0.150000
4.830	25.550	0.150000
9.650	25.200	0.150000
14.480	25.230	0.150000
19.310	25.560	0.150000
24.130	25.800	0.150000
28.960	25.780	0.150000

\* All elevations are NAVD88.

33.790	25.740	0.150000
38.610	25.710	0.150000
43.440	25.680	0.150000
48.270	25.660	0.150000
53.090	25.780	0.150000
57.920	25.930	0.150000
62.750	26.030	0.150000
67.570	26.020	0.150000
72.400	25.980	0.150000
77.230	26.000	0.150000
82.050	26.030	0.150000
86.880	25.970	0.150000
91.710	25.880	0.150000
96.530	26.070	0.150000
101.360	25.980	0.150000
106.180	25.670	0.150000
111.010	25.540	0.150000
115.840	25.570	0.150000
120.660	25.300	0.150000
125.490	25.180	0.150000
130.110	25.170	0.150000
134.730	25.110	0.150000
139.350	25.030	0.150000
143.970	24.990	0.150000
148.590	25.070	0.150000
153.210	25.130	0.150000
157.830	25.190	0.150000
162.450	25.250	0.150000
167.070	25.290	0.150000
171.690	25.480	0.150000
176.310	26.150	0.150000
180.930	27.310	0.150000
185.550	27.770	0.150000
190.510	28.960	0.150000
195.460	29.220	0.150000
200.410	29.380	0.150000
205.370	29.470	0.150000
210.320	29.650	0.150000
215.280	29.910	0.150000
220.230	30.160	0.150000
225.190	29.760	0.150000
230.140	28.890	0.150000
235.100	27.900	0.150000
240.050	27.150	0.150000
245.010	26.450	0.150000
249.960	25.900	0.150000
254.920	25.570	0.150000
259.870	25.790	0.150000
264.830	25.740	0.150000
269.780	25.610	0.150000
274.740	25.510	0.150000
279.690	25.400	0.150000
284.640	25.270	0.150000
289.600	25.150	0.150000
294.550	25.080	0.150000
299.510	25.100	0.150000
304.460	25.070	0.150000
309.420	25.000	0.150000
314.370	24.870	0.150000
319.330	24.630	0.150000
324.280	24.460	0.150000
329.240	24.510	0.150000
334.190	24.820	0.150000
339.150	25.040	0.150000
344.100	25.450	0.150000
348.950	25.450	0.150000
353.790	25.130	0.150000
358.640	25.100	0.150000
363.480	25.050	0.150000
368.330	24.760	0.150000
373.170	24.780	0.150000
378.020	24.680	0.150000
382.860	24.870	0.150000
387.710	25.000	0.150000
392.550	25.170	0.150000
397.400	25.350	0.150000
402.240	25.550	0.150000
407.090	25.720	0.150000
411.930	25.810	0.150000
416.780	25.880	0.150000
421.630	25.970	0.150000
426.470	26.440	0.150000
431.320	27.140	0.150000
436.160	27.400	0.150000
441.010	27.450	0.150000
445.850	27.440	0.150000
450.700	27.330	0.150000
455.510	27.320	0.150000
460.330	27.440	0.150000
465.140	27.200	0.150000
469.950	26.400	0.150000
474.770	26.250	0.150000

\* All elevations are NAVD88.

479.580	25.850	0.150000
484.400	25.590	0.150000
489.210	25.530	0.150000
494.020	25.310	0.150000
498.840	25.330	0.150000
503.650	25.580	0.150000
508.470	25.800	0.150000
513.280	26.020	0.150000
518.100	26.090	0.150000
522.910	25.970	0.150000
527.720	25.770	0.150000
532.540	25.670	0.150000
537.350	25.800	0.150000
542.170	25.840	0.150000
546.980	25.680	0.150000
551.800	25.560	0.150000
556.610	25.640	0.150000
561.420	25.660	0.150000
566.270	25.540	0.150000
571.110	25.430	0.150000
575.950	25.800	0.150000
580.800	26.240	0.150000
585.640	26.370	0.150000
590.480	26.420	0.150000
595.330	26.520	0.150000
600.170	26.200	0.150000
605.010	25.880	0.150000
609.860	25.580	0.150000
614.700	25.290	0.150000
619.540	25.110	0.150000
624.390	25.030	0.150000
629.230	25.000	0.150000
634.070	24.990	0.150000
638.920	24.970	0.150000
643.800	24.940	0.150000
648.680	24.910	0.150000
653.560	24.860	0.150000
658.440	24.820	0.150000
663.320	24.790	0.150000
668.200	24.770	0.150000
673.090	24.810	0.150000
677.970	25.020	0.150000
682.850	25.260	0.150000
687.730	25.370	0.150000
692.610	25.460	0.150000
697.490	25.550	0.150000
702.370	25.620	0.150000
707.250	25.680	0.150000
712.140	25.660	0.150000
717.020	25.580	0.150000
721.900	25.500	0.150000
726.780	25.490	0.150000
731.660	25.570	0.150000
736.540	25.680	0.150000
741.420	25.720	0.150000
746.300	25.710	0.150000
751.180	25.700	0.150000
756.040	25.680	0.150000
760.890	25.660	0.150000
765.740	25.660	0.150000
770.590	25.950	0.150000
775.440	26.290	0.150000
780.290	26.410	0.150000
785.140	26.410	0.150000
789.990	26.400	0.150000
794.840	26.400	0.150000
799.690	26.320	0.150000
804.540	26.320	0.150000
809.390	26.480	0.150000
814.250	26.720	0.150000
819.100	26.660	0.150000
823.950	26.390	0.150000
828.800	26.080	0.150000
833.650	25.730	0.150000
838.500	25.500	0.150000
843.350	25.400	0.150000
848.200	25.360	0.150000
853.050	25.370	0.150000
857.900	25.380	0.150000
862.750	25.420	0.150000
867.600	25.390	0.150000
872.460	25.260	0.150000
877.310	25.120	0.150000
882.160	25.080	0.150000
887.010	25.140	0.150000
891.860	25.190	0.150000
896.710	25.200	0.150000
901.560	25.150	0.150000
906.320	25.170	0.150000
911.090	25.080	0.150000
915.850	24.940	0.150000
920.620	24.800	0.150000

\* All elevations are NAVD88.

925.380	24.630	0.150000
930.140	24.960	0.150000
934.910	25.160	0.150000
939.670	25.180	0.150000
944.430	25.250	0.150000
949.200	25.350	0.150000
953.960	25.450	0.150000
958.730	25.310	0.150000
963.490	25.880	0.150000
968.250	27.020	0.150000
973.020	28.090	0.150000
977.780	28.470	0.150000
982.550	28.170	0.150000
987.310	27.410	0.150000
992.070	26.580	0.150000
996.990	25.990	0.150000
1001.910	25.610	0.150000
1006.830	25.500	0.150000
1011.740	25.560	0.150000
1016.660	25.460	0.150000
1021.580	25.410	0.150000
1026.500	25.390	0.150000
1031.410	25.490	0.150000
1036.330	25.520	0.150000
1041.250	25.500	0.150000
1046.170	25.440	0.150000
1051.080	25.450	0.150000
1056.000	25.740	0.150000
1060.920	26.000	0.150000
1065.840	26.180	0.150000
1070.750	26.350	0.150000
1075.670	26.390	0.150000
1080.590	26.230	0.150000
1085.510	26.020	0.150000
1090.420	25.970	0.150000
1095.340	25.790	0.150000
1100.260	25.650	0.150000
1105.180	25.820	0.150000
1110.100	26.390	0.150000
1115.010	27.030	0.150000
1119.930	27.440	0.150000
1124.850	27.650	0.150000
1129.830	27.590	0.150000
1134.820	27.450	0.150000
1139.800	27.030	0.150000
1144.790	26.510	0.150000
1149.770	26.170	0.150000
1154.760	26.140	0.150000
1159.740	26.150	0.150000
1164.730	26.200	0.150000
1169.720	26.280	0.150000
1174.700	26.220	0.150000
1179.690	26.080	0.150000
1184.670	26.000	0.150000
1189.660	26.130	0.150000
1194.640	26.260	0.150000
1199.630	26.140	0.150000
1204.610	25.960	0.150000
1209.600	25.770	0.150000
1214.580	25.610	0.150000
1219.570	25.400	0.150000
1224.550	25.470	0.150000
1229.540	25.520	0.150000
1234.520	25.590	0.150000
1239.510	25.700	0.150000
1244.490	25.900	0.150000
1249.480	26.080	0.150000
1254.470	26.100	0.150000
1259.450	26.040	0.150000
1264.420	26.100	0.150000
1269.390	26.500	0.150000
1274.360	26.930	0.150000
1279.330	27.120	0.150000
1284.300	27.250	0.150000
1289.270	27.230	0.150000
1294.240	27.140	0.150000
1299.210	26.930	0.150000
1304.180	26.730	0.150000
1309.150	26.740	0.150000
1314.130	26.200	0.150000
1319.100	26.050	0.150000
1324.070	26.270	0.150000
1329.040	26.350	0.150000
1334.010	26.090	0.150000
1338.980	25.800	0.150000
1343.950	25.740	0.150000
1348.920	25.630	0.150000
1353.890	25.450	0.150000
1358.860	25.040	0.150000
1363.830	24.870	0.150000
1368.800	25.060	0.150000
1373.770	25.060	0.150000

\* All elevations are NAVD88.



1378.740	25.330	0.150000
1383.710	25.090	0.150000
1388.680	24.960	0.150000
1393.650	25.190	0.150000
1398.620	25.920	0.150000
1403.520	26.090	0.150000
1408.410	26.260	0.150000
1413.300	26.270	0.150000
1418.190	26.120	0.150000
1423.080	26.130	0.150000
1427.980	26.080	0.150000
1432.870	25.970	0.150000
1437.760	25.980	0.150000
1442.650	26.240	0.150000
1447.550	26.540	0.150000
1452.440	26.410	0.150000
1457.330	25.840	0.150000
1462.230	25.320	0.150000
1467.120	25.550	0.150000
1472.010	26.460	0.150000
1476.900	27.000	0.150000
1481.790	27.210	0.150000
1486.690	27.090	0.150000
1491.580	26.910	0.150000
1496.470	26.730	0.150000
1501.370	26.570	0.150000
1506.260	26.390	0.150000
1511.150	26.270	0.150000
1516.040	26.170	0.150000
1520.940	26.190	0.150000
1525.830	26.240	0.150000
1530.780	26.090	0.150000
1535.730	25.920	0.150000
1540.690	25.870	0.150000
1545.640	25.890	0.150000
1550.590	26.390	0.150000
1555.550	26.870	0.150000
1560.500	27.080	0.150000
1565.450	27.350	0.150000
1570.410	27.550	0.150000
1575.360	27.680	0.150000
1580.310	27.790	0.150000
1585.270	28.110	0.150000
1590.220	28.280	0.150000
1595.170	28.200	0.150000
1600.130	28.680	0.150000
1605.080	28.850	0.150000
1610.030	28.630	0.150000
1614.990	28.620	0.150000
1619.940	28.720	0.150000
1624.890	28.450	0.150000
1629.470	28.710	0.150000
1634.050	28.730	0.150000
1638.620	28.600	0.150000
1643.200	28.130	0.150000
1647.780	28.150	0.150000
1652.350	28.360	0.150000
1656.930	28.490	0.150000
1661.510	28.360	0.150000
1666.080	28.230	0.150000
1670.660	28.100	0.150000
1675.230	27.870	0.150000
1679.780	27.730	0.150000
1684.320	27.700	0.150000
1688.860	27.700	0.150000
1693.400	27.670	0.150000
1697.940	27.950	0.150000
1702.480	27.900	0.150000
1707.020	28.030	0.150000
1711.560	28.310	0.150000
1716.110	28.280	0.150000
1720.750	28.390	0.150000
1725.400	28.490	0.150000
1730.050	28.490	0.150000
1734.690	28.540	0.150000
1739.340	28.650	0.150000
1743.990	28.510	0.150000
1748.630	28.140	0.150000
1753.280	28.040	0.150000
1757.930	27.950	0.150000
1762.890	28.040	0.150000
1767.850	28.050	0.150000
1772.810	28.200	0.150000
1777.770	28.340	0.150000
1782.740	28.700	0.150000
1787.700	28.930	0.150000
1792.660	28.910	0.150000
1797.620	28.700	0.150000
1802.300	28.370	0.150000
1806.980	28.200	0.150000
1811.660	28.220	0.150000
1816.330	28.210	0.150000

\* All elevations are NAVD88.

1821.010	28.220	0.150000
1825.690	28.230	0.150000
1830.370	28.110	0.150000
1835.030	28.170	0.150000
1839.700	28.490	0.150000
1844.360	29.060	0.150000
1849.020	29.070	0.150000
1853.750	28.900	0.150000
1858.490	28.630	0.150000
1863.220	28.630	0.150000
1867.950	28.580	0.150000
1872.680	28.350	0.150000
1877.420	27.960	0.150000
1882.150	27.720	0.150000
1886.880	27.430	0.150000
1891.610	27.240	0.150000
1896.350	27.210	0.150000
1901.080	27.200	0.150000
1905.810	27.170	0.150000
1910.480	27.220	0.150000
1915.160	27.310	0.150000
1919.830	27.360	0.150000
1924.500	27.490	0.150000
1929.180	27.680	0.150000
1934.020	27.780	0.150000
1938.860	27.820	0.150000
1943.700	27.520	0.150000
1948.550	27.280	0.150000
1953.390	27.140	0.150000
1958.230	27.400	0.150000
1963.080	27.820	0.150000
1967.920	28.020	0.150000
1972.430	27.730	0.150000
1976.950	27.150	0.150000
1981.460	27.170	0.150000
1985.970	27.160	0.150000
1990.490	27.110	0.150000
1995.000	27.060	0.150000
1999.520	27.050	0.150000
2004.270	27.050	0.150000
2009.020	27.080	0.150000
2013.770	27.160	0.150000
2018.520	27.200	0.150000
2023.270	27.160	0.150000
2028.020	27.320	0.150000
2032.770	27.800	0.150000
2037.520	28.160	0.150000
2042.270	28.330	0.150000
2047.020	28.220	0.150000
2051.770	28.170	0.150000
2056.520	28.130	0.150000
2061.450	28.020	0.150000
2066.390	27.960	0.150000
2071.330	27.820	0.150000
2076.270	27.780	0.150000
2081.200	27.730	0.150000
2086.140	27.440	0.150000
2091.080	27.360	0.150000
2095.710	27.290	0.150000
2100.340	27.230	0.150000
2104.970	27.170	0.150000
2109.600	27.110	0.150000
2114.230	27.000	0.150000
2118.860	27.190	0.150000
2123.490	27.500	0.150000
2128.310	27.260	0.150000
2133.140	27.170	0.150000
2137.960	27.400	0.150000
2142.780	27.600	0.150000
2147.610	27.660	0.150000
2152.430	27.460	0.150000
2157.260	27.300	0.150000
2162.080	27.140	0.150000
2166.900	27.180	0.150000
2171.730	27.260	0.150000
2176.550	27.400	0.150000
2181.380	27.860	0.150000
2186.200	28.170	0.150000
2191.020	28.290	0.150000
2195.850	28.350	0.150000
2200.670	28.720	0.150000

Name: W03A-04A  
Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	25.620	0.150000
4.850	26.030	0.150000

\* All elevations are NAVD88.

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9.690	26.500	0.150000
14.540	26.750	0.150000
19.390	26.690	0.150000
24.240	26.850	0.150000
29.080	26.960	0.150000
33.930	26.920	0.150000
38.780	27.090	0.150000
43.620	27.170	0.150000
48.470	27.220	0.150000
53.320	27.340	0.150000
58.170	27.360	0.150000
63.010	27.380	0.150000
67.860	26.530	0.150000
72.710	26.160	0.150000
77.550	25.980	0.150000
82.400	25.880	0.150000
87.250	25.730	0.150000
92.100	25.800	0.150000
96.940	25.810	0.150000
101.790	25.790	0.150000
106.640	25.840	0.150000
111.480	25.820	0.150000
116.330	25.750	0.150000
121.210	25.850	0.150000
126.090	25.950	0.150000
130.970	26.020	0.150000
135.850	26.060	0.150000
140.730	26.380	0.150000
145.610	26.670	0.150000
150.490	26.820	0.150000
155.370	26.720	0.150000
160.250	26.370	0.150000
165.130	26.050	0.150000
170.010	26.150	0.150000
174.890	26.400	0.150000
179.770	26.750	0.150000
184.650	26.780	0.150000
189.530	26.360	0.150000
194.410	26.150	0.150000
199.290	26.060	0.150000
204.170	25.990	0.150000
209.050	26.120	0.150000
213.930	26.150	0.150000
218.810	26.130	0.150000
223.690	25.990	0.150000
228.570	25.820	0.150000
233.450	25.830	0.150000
238.330	25.790	0.150000
243.200	25.760	0.150000
248.080	25.940	0.150000
252.960	26.100	0.150000
257.840	26.580	0.150000
262.720	27.310	0.150000
267.600	27.180	0.150000
272.480	27.110	0.150000
277.360	26.880	0.150000
282.230	26.380	0.150000
287.110	26.010	0.150000
291.990	25.740	0.150000
296.870	25.760	0.150000
301.750	25.810	0.150000
306.630	25.820	0.150000
311.510	25.870	0.150000
316.390	26.420	0.150000
321.260	27.130	0.150000
326.140	27.860	0.150000
331.020	28.290	0.150000
335.900	28.350	0.150000
340.780	28.040	0.150000
345.660	27.220	0.150000
350.580	26.180	0.150000
355.510	25.870	0.150000
360.430	25.700	0.150000
365.360	25.720	0.150000
370.280	26.090	0.150000
375.210	26.360	0.150000
380.140	26.500	0.150000
385.060	26.600	0.150000
389.990	26.640	0.150000
394.910	26.370	0.150000
399.840	25.860	0.150000
404.760	25.290	0.150000
409.690	25.320	0.150000
414.610	25.540	0.150000
419.540	25.530	0.150000
424.460	25.600	0.150000
429.390	25.840	0.150000
434.310	25.880	0.150000
439.240	25.860	0.150000
444.160	25.820	0.150000
449.090	25.760	0.150000
454.010	25.680	0.150000

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\* All elevations are NAVD88.

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458.940	25.610	0.150000
463.870	25.540	0.150000
468.790	25.360	0.150000
473.780	25.040	0.150000
478.770	24.900	0.150000
483.760	25.000	0.150000
488.740	24.990	0.150000
493.730	24.970	0.150000
498.720	25.090	0.150000
503.710	25.330	0.150000
508.700	25.730	0.150000
513.690	26.470	0.150000
518.680	27.280	0.150000
523.660	28.040	0.150000
528.650	28.740	0.150000
533.640	29.290	0.150000
538.630	29.460	0.150000
543.620	29.240	0.150000
548.610	28.940	0.150000
553.590	28.730	0.150000
558.580	28.310	0.150000
563.570	27.850	0.150000
568.560	27.440	0.150000
573.550	26.980	0.150000
578.540	26.580	0.150000
583.520	26.040	0.150000
588.510	25.820	0.150000
593.480	25.900	0.150000
598.440	25.830	0.150000
603.400	25.690	0.150000
608.370	25.540	0.150000
613.330	25.420	0.150000
618.290	25.450	0.150000
623.260	25.730	0.150000
628.220	25.880	0.150000
633.180	25.910	0.150000
638.150	25.890	0.150000
643.110	25.890	0.150000
648.070	25.860	0.150000
653.040	25.830	0.150000
658.000	25.800	0.150000
662.960	25.850	0.150000
667.930	26.070	0.150000
672.890	25.940	0.150000
677.850	25.920	0.150000
682.820	26.130	0.150000
687.780	26.190	0.150000
692.740	25.610	0.150000
697.710	25.360	0.150000
702.670	25.490	0.150000
707.630	25.810	0.150000
712.600	25.840	0.150000
717.560	25.770	0.150000
722.520	25.660	0.150000
727.490	25.540	0.150000
732.450	25.150	0.150000
737.410	25.190	0.150000
742.380	25.510	0.150000
747.340	25.740	0.150000
752.130	25.860	0.150000
756.920	25.990	0.150000
761.710	26.000	0.150000
766.510	26.010	0.150000
771.300	25.930	0.150000
776.090	25.850	0.150000
780.880	25.760	0.150000
785.670	25.680	0.150000
790.470	25.600	0.150000
795.260	25.690	0.150000
800.050	25.820	0.150000
804.840	25.890	0.150000
809.630	25.940	0.150000
814.420	25.950	0.150000
819.220	25.930	0.150000
824.010	25.890	0.150000
828.800	25.840	0.150000
833.590	25.780	0.150000
838.380	25.650	0.150000
843.180	25.540	0.150000
847.970	25.490	0.150000
852.760	25.590	0.150000
857.670	25.700	0.150000
862.570	25.890	0.150000
867.480	26.170	0.150000
872.390	26.250	0.150000
877.290	26.350	0.150000
882.200	26.610	0.150000
887.110	26.720	0.150000
892.010	26.470	0.150000
896.920	26.230	0.150000
901.830	26.020	0.150000
906.740	25.910	0.150000

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\* All elevations are NAVD88.

911.640	25.800	0.150000
916.550	25.800	0.150000
921.460	25.860	0.150000
926.360	25.930	0.150000
931.270	26.130	0.150000
936.180	26.650	0.150000
941.080	27.520	0.150000
945.990	28.380	0.150000
950.900	28.900	0.150000
955.800	29.110	0.150000
960.710	28.210	0.150000
965.620	27.440	0.150000
970.530	26.750	0.150000
975.430	26.260	0.150000
980.340	25.870	0.150000
985.250	25.800	0.150000
990.150	26.060	0.150000
995.060	26.490	0.150000
999.970	26.700	0.150000
1004.870	26.680	0.150000
1009.780	26.520	0.150000
1014.690	26.140	0.150000
1019.590	25.860	0.150000
1024.500	25.740	0.150000
1029.410	25.670	0.150000
1034.320	25.710	0.150000
1039.220	25.820	0.150000
1044.130	25.920	0.150000
1049.040	26.090	0.150000
1053.940	26.620	0.150000
1058.850	26.150	0.150000
1063.760	26.150	0.150000
1068.660	26.360	0.150000
1073.570	26.540	0.150000
1078.480	26.980	0.150000
1083.380	27.420	0.150000
1088.290	27.750	0.150000
1093.090	28.010	0.150000
1097.880	28.080	0.150000
1102.670	27.980	0.150000
1107.470	28.240	0.150000
1112.260	28.510	0.150000
1117.060	28.760	0.150000
1121.850	28.830	0.150000
1126.640	28.660	0.150000
1131.440	28.110	0.150000
1136.230	27.360	0.150000
1141.030	26.530	0.150000
1145.820	26.160	0.150000
1150.620	26.040	0.150000
1155.410	26.010	0.150000
1160.200	25.980	0.150000
1165.000	26.060	0.150000
1169.790	26.290	0.150000
1174.590	26.380	0.150000
1179.380	26.240	0.150000
1184.180	26.130	0.150000
1188.970	26.100	0.150000
1193.760	26.080	0.150000

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 Name: W03A-05A                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
19.730	27.520	0.150000
24.660	26.780	0.150000
29.590	25.840	0.150000
34.520	25.370	0.150000
39.460	25.110	0.150000
44.390	25.280	0.150000
49.320	25.580	0.150000
54.250	26.170	0.150000
59.180	26.840	0.150000
64.110	27.660	0.150000
69.050	27.580	0.150000
73.980	26.990	0.150000
78.910	26.470	0.150000
83.750	26.060	0.150000
88.580	25.750	0.150000
93.420	25.590	0.150000
98.250	25.580	0.150000
103.090	25.560	0.150000
107.930	25.480	0.150000
112.760	25.410	0.150000
117.600	25.360	0.150000
122.430	25.320	0.150000
127.270	25.450	0.150000
132.100	25.390	0.150000

\* All elevations are NAVD88.

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136.940	25.460	0.150000
141.780	25.650	0.150000
146.610	25.500	0.150000
151.450	25.220	0.150000
156.280	24.930	0.150000
161.120	25.180	0.150000
165.960	25.300	0.150000
170.790	25.350	0.150000
175.630	25.380	0.150000
180.460	25.420	0.150000
185.300	25.450	0.150000
190.130	25.470	0.150000
194.970	25.390	0.150000
199.810	25.200	0.150000
204.640	25.270	0.150000
209.480	25.290	0.150000
214.310	25.380	0.150000
219.150	25.620	0.150000
223.970	25.980	0.150000
228.800	26.280	0.150000
233.630	26.620	0.150000
238.450	26.840	0.150000
243.280	26.710	0.150000
248.100	26.550	0.150000
252.930	26.330	0.150000
257.750	26.190	0.150000
262.580	25.950	0.150000
267.400	25.830	0.150000
272.230	26.180	0.150000
277.060	26.420	0.150000
281.880	26.580	0.150000
286.710	26.610	0.150000
291.530	26.830	0.150000
296.360	27.180	0.150000
301.190	27.220	0.150000
306.020	26.920	0.150000
310.850	26.650	0.150000
315.680	26.490	0.150000
320.510	26.320	0.150000
325.340	26.260	0.150000
330.170	26.640	0.150000
335.000	27.020	0.150000
339.830	27.030	0.150000
344.660	26.980	0.150000
349.490	26.890	0.150000
354.320	26.800	0.150000
359.150	26.710	0.150000
363.980	27.070	0.150000
368.810	27.250	0.150000
373.640	26.880	0.150000
378.470	26.120	0.150000
383.300	25.710	0.150000
388.130	25.570	0.150000
392.960	25.670	0.150000
397.790	25.880	0.150000
402.620	25.940	0.150000
407.450	25.940	0.150000
412.280	25.840	0.150000
417.110	25.840	0.150000
421.940	25.620	0.150000
426.770	25.250	0.150000
431.600	25.100	0.150000
436.430	25.400	0.150000
441.260	25.740	0.150000
446.090	26.060	0.150000
450.920	26.350	0.150000
455.750	26.610	0.150000
460.580	26.830	0.150000
465.410	27.030	0.150000
470.240	27.240	0.150000
475.070	26.980	0.150000
479.900	26.590	0.150000
484.730	26.180	0.150000
489.560	25.840	0.150000
494.390	25.770	0.150000
499.220	25.860	0.150000
504.050	25.840	0.150000
508.880	25.620	0.150000
513.710	25.530	0.150000
518.540	25.940	0.150000
523.370	26.620	0.150000
528.200	26.940	0.150000
533.030	26.920	0.150000
537.860	26.980	0.150000
542.690	27.290	0.150000
547.520	27.360	0.150000
552.350	26.880	0.150000
557.180	26.610	0.150000
562.010	26.410	0.150000
566.840	26.220	0.150000
571.670	26.210	0.150000
576.500	26.190	0.150000

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\* All elevations are NAVD88.

827.410	26.150	0.150000
832.390	26.340	0.150000
837.370	26.850	0.150000
842.340	27.280	0.150000
857.280	27.060	0.150000
862.260	26.960	0.150000
867.240	27.040	0.150000
872.210	26.980	0.150000
877.190	26.950	0.150000
882.170	26.820	0.150000
887.150	26.760	0.150000
892.130	26.540	0.150000
897.110	26.980	0.150000
916.880	26.940	0.150000
921.780	26.840	0.150000
926.690	26.860	0.150000
931.600	26.920	0.150000
936.510	26.970	0.150000
941.410	26.990	0.150000
946.320	26.960	0.150000
951.230	26.890	0.150000
956.130	27.040	0.150000
961.040	26.940	0.150000
965.950	26.820	0.150000
970.860	26.650	0.150000
975.760	26.470	0.150000
980.670	26.370	0.150000
985.580	26.370	0.150000
990.490	26.310	0.150000
995.390	26.250	0.150000
1000.300	26.170	0.150000
1005.210	26.240	0.150000
1010.110	26.360	0.150000
1015.020	26.140	0.150000
1019.930	25.830	0.150000
1024.840	25.780	0.150000
1029.740	25.760	0.150000
1034.650	25.740	0.150000
1039.560	25.780	0.150000
1044.470	25.860	0.150000
1049.370	26.000	0.150000
1054.280	26.360	0.150000
1059.190	26.810	0.150000
1064.090	26.870	0.150000
1069.000	26.450	0.150000
1073.910	26.040	0.150000
1078.820	26.150	0.150000
1083.720	26.590	0.150000
1088.630	26.930	0.150000
1093.540	26.970	0.150000
1098.450	26.840	0.150000
1103.350	26.970	0.150000
1108.260	27.010	0.150000
1113.170	26.970	0.150000
1118.070	26.810	0.150000
1122.980	26.580	0.150000
1127.890	26.370	0.150000
1132.800	26.380	0.150000
1137.700	26.460	0.150000
1142.660	26.400	0.150000
1147.620	26.480	0.150000
1152.590	26.540	0.150000
1157.550	26.590	0.150000
1162.510	26.640	0.150000
1167.470	26.660	0.150000
1172.430	26.650	0.150000
1177.390	26.560	0.150000
1182.350	26.480	0.150000
1187.310	26.450	0.150000
1192.270	26.720	0.150000
1197.230	26.760	0.150000
1202.190	26.510	0.150000
1207.160	26.030	0.150000
1212.120	25.870	0.150000
1217.080	25.880	0.150000
1222.040	25.800	0.150000
1227.000	26.070	0.150000
1231.960	26.350	0.150000
1236.920	26.370	0.150000
1241.880	26.190	0.150000
1246.840	26.520	0.150000
1251.800	26.560	0.150000
1256.760	26.480	0.150000
1261.720	26.160	0.150000
1266.690	26.090	0.150000
1271.650	26.470	0.150000
1276.610	26.870	0.150000
1281.570	27.150	0.150000
1291.490	27.010	0.150000
1296.450	26.820	0.150000
1301.430	26.490	0.150000
1306.400	26.190	0.150000

\* All elevations are NAVD88.

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1311.380	26.190	0.150000
1316.350	26.160	0.150000
1321.330	26.150	0.150000
1326.300	26.170	0.150000
1331.280	26.180	0.150000
1336.250	26.340	0.150000
1341.230	26.420	0.150000
1346.210	26.130	0.150000
1351.180	25.850	0.150000
1356.160	25.960	0.150000
1361.130	26.000	0.150000
1366.110	26.400	0.150000
1371.080	26.610	0.150000
1376.060	26.520	0.150000
1381.030	26.490	0.150000
1386.010	26.610	0.150000
1390.990	26.730	0.150000
1395.960	26.780	0.150000
1400.940	26.680	0.150000
1405.910	26.700	0.150000
1410.890	27.310	0.150000
1470.030	27.120	0.150000
1474.870	26.960	0.150000
1479.710	26.700	0.150000
1484.540	26.490	0.150000
1489.380	26.350	0.150000
1494.210	26.340	0.150000
1499.050	26.330	0.150000
1503.890	26.330	0.150000
1508.720	26.310	0.150000
1513.560	26.320	0.150000
1518.390	26.310	0.150000
1523.230	26.310	0.150000
1528.060	26.260	0.150000
1532.900	26.140	0.150000
1537.740	26.000	0.150000
1542.570	25.860	0.150000
1547.410	25.760	0.150000
1552.240	25.690	0.150000
1557.080	25.640	0.150000
1561.910	25.590	0.150000
1566.750	25.560	0.150000
1571.590	25.510	0.150000
1576.420	25.470	0.150000
1581.260	25.410	0.150000
1586.090	25.360	0.150000
1590.930	25.300	0.150000
1595.850	25.330	0.150000
1600.770	25.380	0.150000
1605.690	25.420	0.150000
1610.600	25.460	0.150000
1615.520	25.470	0.150000
1620.440	25.470	0.150000
1625.360	25.450	0.150000
1630.280	25.460	0.150000
1635.200	25.500	0.150000
1640.110	25.470	0.150000
1645.030	25.380	0.150000
1649.950	25.340	0.150000
1654.870	25.320	0.150000
1659.790	25.310	0.150000
1664.710	25.350	0.150000
1669.620	25.440	0.150000
1674.540	25.560	0.150000
1679.460	25.750	0.150000
1684.380	26.200	0.150000
1689.300	26.920	0.150000
1694.220	27.650	0.150000
1758.390	27.430	0.150000
1763.390	26.750	0.150000
1768.390	26.130	0.150000
1773.390	25.630	0.150000
1778.380	25.630	0.150000
1783.380	25.700	0.150000
1788.380	25.780	0.150000
1793.380	25.900	0.150000
1798.370	26.010	0.150000
1803.370	26.030	0.150000
1808.370	26.010	0.150000
1813.370	25.980	0.150000
1818.360	26.020	0.150000
1823.360	26.030	0.150000
1828.360	26.070	0.150000
1833.360	26.220	0.150000
1838.350	26.210	0.150000
1843.350	26.140	0.150000
1848.350	26.060	0.150000
1853.350	25.990	0.150000
1858.340	25.930	0.150000
1863.340	25.870	0.150000
1868.340	25.850	0.150000
1873.340	25.850	0.150000

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1878.330	25.880	0.150000
1883.330	25.900	0.150000
1888.330	25.970	0.150000
1893.330	26.140	0.150000
1898.320	26.630	0.150000
1903.320	27.330	0.150000
1908.320	27.340	0.150000
1913.310	27.000	0.150000
1918.310	26.740	0.150000
1923.310	26.560	0.150000
1928.310	26.470	0.150000
1933.300	26.540	0.150000
1938.300	26.590	0.150000
1943.300	26.480	0.150000
1948.300	26.310	0.150000
1953.290	26.170	0.150000
1958.290	26.130	0.150000
1963.290	26.330	0.150000
1968.290	26.710	0.150000
1973.280	26.790	0.150000
1978.280	26.580	0.150000
1983.280	26.060	0.150000
1988.280	25.400	0.150000
1993.270	25.220	0.150000
1998.270	25.180	0.150000
2003.270	25.160	0.150000
2008.270	25.170	0.150000
2013.260	25.080	0.150000
2018.260	25.130	0.150000
2023.160	25.170	0.150000
2028.060	25.140	0.150000
2032.970	25.130	0.150000
2037.870	25.160	0.150000
2042.770	25.060	0.150000
2047.670	25.050	0.150000
2052.570	25.150	0.150000
2057.470	25.210	0.150000
2062.370	25.190	0.150000
2067.280	25.170	0.150000
2072.180	25.140	0.150000
2077.080	25.130	0.150000
2081.980	25.140	0.150000
2086.880	25.140	0.150000
2091.780	25.120	0.150000
2096.680	25.080	0.150000
2101.590	25.060	0.150000
2106.490	25.190	0.150000
2111.390	25.290	0.150000
2116.290	25.210	0.150000
2121.190	25.170	0.150000
2126.090	25.150	0.150000
2130.990	25.150	0.150000
2135.900	25.180	0.150000
2140.800	25.220	0.150000
2145.700	25.280	0.150000
2150.600	25.360	0.150000
2155.500	25.450	0.150000
2160.400	25.680	0.150000
2165.300	26.030	0.150000
2170.210	26.370	0.150000
2175.110	26.420	0.150000
2180.010	26.390	0.150000
2184.910	26.150	0.150000
2189.810	25.740	0.150000
2194.710	25.830	0.150000
2199.610	25.850	0.150000
2204.520	25.820	0.150000
2209.420	25.850	0.150000
2214.320	25.880	0.150000
2219.260	25.920	0.150000
2224.200	25.950	0.150000
2229.140	25.980	0.150000
2234.080	25.990	0.150000
2239.010	25.850	0.150000
2243.950	25.860	0.150000
2248.890	25.660	0.150000
2253.830	25.410	0.150000
2258.770	25.170	0.150000
2263.710	25.270	0.150000
2268.650	25.310	0.150000
2273.590	25.160	0.150000
2278.530	25.080	0.150000
2283.470	25.200	0.150000
2288.410	25.460	0.150000
2293.340	25.680	0.150000
2298.280	25.790	0.150000
2303.220	25.890	0.150000
2308.160	25.980	0.150000
2313.100	26.150	0.150000
2318.040	26.150	0.150000
2322.980	26.090	0.150000
2327.920	26.000	0.150000

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\* All elevations are NAVD88.

2332.860	26.280	0.150000
2337.800	27.030	0.150000
2342.730	27.510	0.150000
2347.670	27.250	0.150000
2352.610	26.610	0.150000
2357.550	26.030	0.150000
2362.490	25.780	0.150000
2367.430	25.760	0.150000
2372.370	26.100	0.150000
2377.310	26.440	0.150000
2382.250	26.400	0.150000
2387.190	26.220	0.150000
2392.130	26.120	0.150000
2397.060	26.170	0.150000
2402.000	26.100	0.150000
2406.940	26.050	0.150000
2411.880	26.060	0.150000
2416.820	26.060	0.150000
2421.760	26.000	0.150000
2426.700	25.780	0.150000
2431.640	25.690	0.150000
2435.900	25.740	0.150000
2440.160	25.790	0.150000
2443.220	25.760	0.150000
2448.210	25.780	0.150000
2453.200	25.800	0.150000
2458.200	25.820	0.150000
2463.190	25.850	0.150000
2468.180	25.820	0.150000
2473.170	25.560	0.150000
2478.160	25.480	0.150000
2483.150	25.520	0.150000
2488.140	25.590	0.150000
2493.130	25.880	0.150000
2498.120	26.020	0.150000
2503.110	25.810	0.150000
2508.100	25.580	0.150000
2513.090	25.450	0.150000
2518.080	25.470	0.150000
2523.070	25.460	0.150000
2528.070	25.590	0.150000
2533.060	25.840	0.150000
2538.050	26.570	0.150000
2543.040	27.400	0.150000
2548.030	27.270	0.150000
2553.020	26.880	0.150000
2558.010	26.470	0.150000
2563.000	26.120	0.150000
2568.000	25.820	0.150000
2573.000	25.600	0.150000
2578.000	25.510	0.150000
2583.000	25.310	0.150000
2588.000	25.260	0.150000
2593.000	25.200	0.150000
2598.000	25.110	0.150000
2603.000	25.410	0.150000
2608.000	25.610	0.150000
2613.000	25.690	0.150000
2618.000	25.830	0.150000
2623.000	25.820	0.150000
2628.000	25.730	0.150000
2633.000	25.810	0.150000
2638.000	25.980	0.150000
2643.000	26.100	0.150000
2648.000	26.060	0.150000
2653.000	26.080	0.150000
2658.000	26.150	0.150000
2663.000	26.190	0.150000
2668.000	26.140	0.150000
2673.000	26.030	0.150000
2678.000	26.020	0.150000
2683.000	26.060	0.150000
2688.000	26.120	0.150000
2693.000	25.980	0.150000
2698.000	25.840	0.150000
2703.000	25.810	0.150000
2708.000	25.780	0.150000
2713.000	25.620	0.150000

Name: W03A-SMF2

Group: BASE

Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	27.290	0.150000
4.960	27.050	0.150000
9.920	26.960	0.150000
14.880	27.610	0.150000
19.840	28.210	0.150000

\* All elevations are NAVD88.

24.800	28.800	0.150000
29.770	29.310	0.150000
34.730	29.610	0.150000
39.690	30.040	0.150000
44.650	29.390	0.150000
49.610	28.550	0.150000
54.570	27.840	0.150000
59.530	27.370	0.150000
64.490	26.870	0.150000
69.450	26.520	0.150000
74.410	26.260	0.150000
79.370	26.290	0.150000
84.340	26.260	0.150000
89.300	26.250	0.150000
94.260	26.290	0.150000
99.220	26.420	0.150000
104.180	26.670	0.150000
109.140	27.160	0.150000
114.100	27.850	0.150000
119.060	28.000	0.150000
124.020	27.510	0.150000
128.980	27.700	0.150000
133.940	27.640	0.150000
138.910	27.560	0.150000
143.870	27.560	0.150000
148.830	27.390	0.150000
153.790	26.880	0.150000
158.750	26.360	0.150000
163.710	26.120	0.150000
168.670	25.990	0.150000
173.630	25.860	0.150000
178.590	25.850	0.150000
183.550	25.860	0.150000
188.380	25.870	0.150000
193.200	25.870	0.150000
198.030	25.860	0.150000
202.850	25.860	0.150000
207.680	25.830	0.150000
212.500	25.760	0.150000
217.330	25.640	0.150000
222.150	25.450	0.150000
226.970	25.310	0.150000
231.800	25.170	0.150000
236.620	25.020	0.150000
241.450	24.860	0.150000
246.270	24.690	0.150000
251.100	24.480	0.150000
255.920	24.450	0.150000
260.750	24.640	0.150000
265.570	24.730	0.150000
270.390	24.730	0.150000
275.220	24.660	0.150000
280.040	24.660	0.150000
284.870	24.690	0.150000
289.690	24.690	0.150000
294.520	24.630	0.150000
299.340	24.610	0.150000
304.170	24.610	0.150000
308.990	24.590	0.150000
313.850	24.560	0.150000
318.710	24.530	0.150000
323.570	24.500	0.150000
328.440	24.450	0.150000
333.300	24.410	0.150000
338.160	24.380	0.150000
343.020	24.400	0.150000
347.880	24.410	0.150000
352.740	24.410	0.150000
357.600	24.420	0.150000
362.460	24.430	0.150000
367.330	24.470	0.150000
372.190	24.530	0.150000
377.050	24.580	0.150000
381.910	24.650	0.150000
386.770	24.700	0.150000
391.630	24.710	0.150000
396.490	24.730	0.150000
401.360	24.900	0.150000
406.220	25.040	0.150000
411.080	24.940	0.150000
415.940	24.690	0.150000
420.800	24.590	0.150000
425.660	24.610	0.150000
430.520	24.530	0.150000
435.360	24.490	0.150000
440.200	24.550	0.150000
445.040	24.530	0.150000
449.880	24.520	0.150000
454.720	24.520	0.150000
459.560	24.520	0.150000
464.400	24.500	0.150000
469.240	24.480	0.150000

\* All elevations are NAVD88.

474.080	24.460	0.150000
478.920	24.470	0.150000
483.760	24.490	0.150000
488.600	24.540	0.150000
493.440	24.600	0.150000
498.270	24.690	0.150000
503.110	24.770	0.150000
507.950	24.840	0.150000
512.790	24.890	0.150000
517.630	25.080	0.150000
522.470	25.490	0.150000
527.310	25.860	0.150000
532.150	26.010	0.150000
536.990	25.940	0.150000
541.830	25.930	0.150000
546.670	25.990	0.150000
551.510	26.110	0.150000
556.350	26.400	0.150000
561.190	26.820	0.150000
566.080	27.160	0.150000
570.980	27.590	0.150000
575.870	28.090	0.150000
580.760	28.600	0.150000
585.660	28.970	0.150000
590.550	28.810	0.150000
595.450	27.940	0.150000
600.340	27.010	0.150000
605.230	26.120	0.150000
610.130	25.460	0.150000
615.020	25.270	0.150000
619.920	25.120	0.150000
624.810	25.410	0.150000
629.700	26.190	0.150000
634.600	27.350	0.150000
639.490	28.140	0.150000
644.390	28.930	0.150000
649.280	29.530	0.150000
654.170	29.830	0.150000
659.070	29.490	0.150000
663.960	28.300	0.150000
668.860	27.660	0.150000
673.750	26.940	0.150000
678.650	26.380	0.150000
683.540	26.740	0.150000
688.430	27.170	0.150000
693.330	27.480	0.150000
698.220	27.230	0.150000
703.120	26.750	0.150000
708.050	26.160	0.150000
712.980	25.680	0.150000
717.910	25.560	0.150000
722.850	25.600	0.150000
727.780	25.730	0.150000
732.710	25.870	0.150000
737.640	25.880	0.150000
742.580	26.000	0.150000
747.510	26.270	0.150000
752.440	26.620	0.150000
757.370	26.910	0.150000
762.310	26.880	0.150000
767.240	26.850	0.150000
772.170	26.890	0.150000
777.100	26.980	0.150000
782.040	26.960	0.150000
786.970	26.720	0.150000
791.900	26.360	0.150000
796.830	26.120	0.150000
801.770	25.830	0.150000
806.700	26.050	0.150000
811.630	27.360	0.150000
816.560	28.600	0.150000
821.500	29.700	0.150000
826.430	29.970	0.150000
831.360	29.030	0.150000
836.290	27.980	0.150000

Name: W03B-SMF2wet  
Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	27.180	0.150000
5.000	27.120	0.150000
10.000	27.040	0.150000
15.000	27.070	0.150000
20.000	27.110	0.150000
25.000	26.950	0.150000
30.000	26.580	0.150000
35.000	26.390	0.150000

\* All elevations are NAVD88.

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40.000	26.400	0.150000
43.400	26.350	0.150000
45.900	26.330	0.150000
50.900	26.200	0.150000
55.900	26.090	0.150000
60.900	26.220	0.150000
65.900	26.440	0.150000
70.900	26.790	0.150000
75.900	26.990	0.150000
80.900	26.660	0.150000
85.900	26.630	0.150000
90.900	26.800	0.150000
95.900	26.990	0.150000
100.900	27.110	0.150000
105.900	27.010	0.150000
110.900	26.810	0.150000
115.900	26.510	0.150000
120.900	26.430	0.150000
125.900	26.380	0.150000
130.900	26.230	0.150000
135.900	26.070	0.150000
140.900	25.930	0.150000
145.900	26.060	0.150000
150.900	26.450	0.150000
156.930	26.530	0.150000
159.430	26.430	0.150000
164.430	26.180	0.150000
169.430	26.090	0.150000
174.430	26.550	0.150000
179.430	26.900	0.150000
184.430	26.650	0.150000
189.430	26.360	0.150000
194.430	26.140	0.150000
199.430	25.760	0.150000
204.430	25.260	0.150000
209.430	24.910	0.150000
214.430	24.820	0.150000
219.430	24.890	0.150000
224.430	24.940	0.150000
229.430	24.980	0.150000
234.430	25.230	0.150000
239.430	25.760	0.150000
244.430	25.900	0.150000
249.430	25.830	0.150000
254.430	25.690	0.150000
259.430	25.580	0.150000
264.430	25.430	0.150000
267.620	25.230	0.150000
270.120	25.060	0.150000
275.120	24.910	0.150000
280.120	24.900	0.150000
285.120	25.010	0.150000
290.120	25.130	0.150000
295.120	25.160	0.150000
300.120	25.290	0.150000
305.120	25.450	0.150000
310.120	25.580	0.150000
315.120	25.690	0.150000
320.120	25.740	0.150000
325.120	25.880	0.150000
330.120	26.140	0.150000
335.120	26.420	0.150000
340.120	26.590	0.150000
345.120	26.720	0.150000
350.120	26.660	0.150000
355.120	26.520	0.150000
360.120	25.900	0.150000
365.120	25.270	0.150000
370.120	24.810	0.150000
375.120	24.730	0.150000
380.120	24.710	0.150000
385.120	24.730	0.150000
387.630	24.720	0.150000
390.130	24.710	0.150000
395.130	24.680	0.150000
400.130	24.640	0.150000
405.130	24.590	0.150000
410.130	24.530	0.150000
415.130	24.470	0.150000
420.130	24.420	0.150000
425.130	24.380	0.150000
430.130	24.350	0.150000
435.130	24.340	0.150000
440.130	24.310	0.150000
445.130	24.280	0.150000
450.130	24.170	0.150000
455.130	24.050	0.150000
460.130	23.920	0.150000
465.130	24.050	0.150000
470.130	24.170	0.150000
475.130	24.280	0.150000
480.130	24.320	0.150000

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\* All elevations are NAVD88.

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485.130	24.360	0.150000
490.130	24.390	0.150000
495.130	24.420	0.150000
500.130	24.470	0.150000
505.130	24.510	0.150000
510.130	24.530	0.150000
515.130	24.540	0.150000
519.360	24.540	0.150000
521.860	24.540	0.150000
526.860	24.560	0.150000
531.860	24.580	0.150000
536.860	24.620	0.150000
541.860	24.660	0.150000
546.860	24.690	0.150000
551.860	24.720	0.150000
556.860	24.750	0.150000
561.860	24.770	0.150000
566.860	24.790	0.150000
571.860	24.800	0.150000
576.860	24.790	0.150000
581.860	24.750	0.150000
586.860	24.690	0.150000
591.860	24.630	0.150000
596.860	24.690	0.150000
601.860	24.780	0.150000
606.860	24.840	0.150000
611.860	24.830	0.150000
616.860	24.790	0.150000
622.900	24.760	0.150000
625.400	24.760	0.150000
630.400	24.750	0.150000
635.400	24.750	0.150000
640.400	24.750	0.150000
645.400	24.760	0.150000
650.400	24.770	0.150000
655.400	24.790	0.150000
660.400	24.820	0.150000
665.400	24.840	0.150000
670.400	24.870	0.150000
675.400	24.890	0.150000
680.400	24.900	0.150000
685.400	24.920	0.150000
690.400	24.940	0.150000
695.400	24.970	0.150000
700.400	25.000	0.150000
705.400	24.990	0.150000
710.400	24.890	0.150000
715.400	24.830	0.150000
720.400	24.750	0.150000
725.400	24.800	0.150000
730.400	25.250	0.150000
735.400	25.440	0.150000
740.530	25.510	0.150000
743.030	25.590	0.150000
748.030	25.690	0.150000
753.030	25.490	0.150000
758.030	25.550	0.150000
763.030	25.570	0.150000
768.030	25.490	0.150000
773.030	25.660	0.150000
778.030	25.650	0.150000
783.030	25.740	0.150000
788.030	26.200	0.150000
793.030	26.700	0.150000
798.030	27.150	0.150000
803.030	27.910	0.150000
808.030	28.280	0.150000
813.030	28.550	0.150000
818.030	28.820	0.150000
823.030	28.830	0.150000
828.030	28.340	0.150000
833.030	27.470	0.150000
838.030	26.700	0.150000
843.030	26.620	0.150000
848.030	26.530	0.150000
853.030	26.320	0.150000
858.030	26.260	0.150000
863.030	26.130	0.150000
868.030	26.050	0.150000
873.030	26.060	0.150000
878.380	26.170	0.150000
880.880	26.200	0.150000
885.880	26.100	0.150000
889.320	26.090	0.150000
891.820	26.090	0.150000
896.820	25.990	0.150000
901.820	26.030	0.150000
906.820	26.230	0.150000
911.830	26.360	0.150000
916.820	26.510	0.150000
921.820	26.660	0.150000
926.820	26.740	0.150000

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\* All elevations are NAVD88.



0.000	27.720	0.150000
5.000	27.780	0.150000
10.000	27.870	0.150000
15.000	27.860	0.150000
20.000	27.850	0.150000
25.000	27.860	0.150000
30.000	28.070	0.150000
35.000	28.030	0.150000
40.000	27.860	0.150000
45.000	27.580	0.150000
50.000	27.210	0.150000
55.000	26.850	0.150000
60.000	26.610	0.150000
65.000	26.580	0.150000
70.000	26.410	0.150000
75.000	26.150	0.150000
80.000	25.780	0.150000
85.000	26.020	0.150000
90.000	26.220	0.150000
95.000	26.370	0.150000
100.000	26.620	0.150000
105.000	26.750	0.150000
110.000	26.800	0.150000
115.000	26.510	0.150000
120.000	26.160	0.150000
125.000	25.800	0.150000
127.620	25.620	0.150000
130.120	25.480	0.150000
135.120	25.310	0.150000
140.120	25.310	0.150000
145.120	25.200	0.150000
150.120	25.320	0.150000
155.120	25.460	0.150000
160.120	25.460	0.150000
165.120	25.430	0.150000
170.120	25.390	0.150000
175.120	25.360	0.150000
180.120	25.320	0.150000
185.120	25.210	0.150000
190.120	24.940	0.150000
195.120	25.210	0.150000
200.120	25.500	0.150000
205.120	25.660	0.150000
210.120	25.440	0.150000
215.120	25.410	0.150000
220.120	25.430	0.150000
225.120	25.330	0.150000
230.120	25.370	0.150000
235.120	25.430	0.150000
240.120	25.510	0.150000
245.120	25.570	0.150000
250.120	25.590	0.150000
255.120	25.600	0.150000
260.120	25.850	0.150000
265.120	26.210	0.150000
267.850	26.470	0.150000
270.350	26.720	0.150000
275.350	27.350	0.150000
280.350	27.640	0.150000
285.350	27.200	0.150000
290.350	26.460	0.150000
295.350	25.840	0.150000
300.350	25.340	0.150000
305.350	25.120	0.150000
310.350	25.210	0.150000
315.350	25.630	0.150000
320.350	26.400	0.150000
325.350	27.290	0.150000
330.350	27.770	0.150000
335.350	28.190	0.150000
340.350	28.650	0.150000
346.770	28.720	0.150000

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 Name: W03C-SMF2                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	28.000	0.150000
0.760	28.050	0.150000
5.760	28.250	0.150000
12.150	27.750	0.150000
14.650	27.510	0.150000
19.650	27.120	0.150000
24.650	26.950	0.150000
29.650	26.910	0.150000
34.650	26.840	0.150000
39.650	26.540	0.150000
44.650	26.340	0.150000

\* All elevations are NAVD88.



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49.650	26.580	0.150000
54.650	26.610	0.150000
61.640	26.560	0.150000
64.140	26.500	0.150000
69.140	26.420	0.150000
74.140	26.410	0.150000
79.140	26.480	0.150000
84.140	26.560	0.150000
89.140	26.650	0.150000
94.140	26.680	0.150000
99.140	26.670	0.150000
104.140	26.600	0.150000
109.140	26.580	0.150000
114.140	26.580	0.150000
117.450	26.550	0.150000
119.950	26.530	0.150000
124.950	26.450	0.150000
129.950	26.390	0.150000
134.950	26.340	0.150000
139.950	26.310	0.150000
144.950	26.220	0.150000
149.950	25.960	0.150000
154.950	25.840	0.150000
159.950	25.910	0.150000
164.950	25.980	0.150000
171.420	26.020	0.150000
173.920	26.020	0.150000
178.920	26.050	0.150000
183.920	25.730	0.150000
188.920	25.520	0.150000
193.920	25.630	0.150000
198.920	25.800	0.150000
203.920	25.730	0.150000
208.920	25.580	0.150000
213.920	25.620	0.150000
220.550	25.950	0.150000
223.050	26.300	0.150000
228.050	27.220	0.150000
233.050	27.880	0.150000
238.050	28.450	0.150000
243.050	28.840	0.150000
248.050	29.080	0.150000
253.050	29.100	0.150000
258.050	26.980	0.150000
263.050	25.680	0.150000
265.710	25.390	0.150000
268.210	25.340	0.150000
273.210	25.400	0.150000
278.210	25.420	0.150000
283.210	25.170	0.150000
288.210	25.020	0.150000
293.210	25.040	0.150000
298.210	25.070	0.150000
305.440	25.080	0.150000
307.940	25.090	0.150000
312.940	25.100	0.150000
317.940	25.120	0.150000
322.940	25.140	0.150000
327.940	25.160	0.150000
332.940	25.180	0.150000
337.940	25.200	0.150000
342.940	25.210	0.150000
345.810	25.220	0.150000
348.310	25.230	0.150000
353.310	25.240	0.150000
358.310	25.250	0.150000
363.310	25.250	0.150000
368.310	25.240	0.150000
373.310	25.220	0.150000
378.310	25.210	0.150000
383.600	25.190	0.150000
386.100	25.190	0.150000
391.100	25.190	0.150000
396.100	25.180	0.150000
401.100	25.210	0.150000
406.100	25.270	0.150000
411.100	25.430	0.150000
418.540	25.550	0.150000
421.040	25.510	0.150000
426.040	25.410	0.150000
431.040	25.370	0.150000
436.040	25.340	0.150000
441.040	25.310	0.150000
446.040	25.270	0.150000
451.040	25.180	0.150000
456.040	25.130	0.150000
461.040	25.150	0.150000
466.040	25.380	0.150000
471.040	25.400	0.150000
476.040	25.350	0.150000
481.040	25.370	0.150000
486.040	25.480	0.150000

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\* All elevations are NAVD88.

490.590	25.520	0.150000
493.090	25.540	0.150000
498.090	25.550	0.150000
503.090	25.550	0.150000
508.090	25.530	0.150000
513.090	25.510	0.150000
518.090	25.470	0.150000
523.090	25.390	0.150000
528.090	25.480	0.150000
533.090	25.800	0.150000
538.090	25.950	0.150000
543.090	25.970	0.150000
547.880	25.810	0.150000
550.380	25.640	0.150000
555.380	25.490	0.150000
560.380	25.450	0.150000
565.380	25.470	0.150000
570.380	25.560	0.150000
575.380	25.990	0.150000
580.380	26.550	0.150000
585.380	27.050	0.150000
590.380	27.270	0.150000
595.380	27.240	0.150000
600.380	26.950	0.150000
605.380	26.730	0.150000
610.380	26.350	0.150000
615.380	26.340	0.150000
622.780	26.400	0.150000
625.280	26.430	0.150000
630.280	26.530	0.150000
635.280	26.820	0.150000
640.280	27.180	0.150000
645.280	27.120	0.150000
650.280	26.890	0.150000
655.280	26.650	0.150000
660.280	26.260	0.150000
665.280	26.130	0.150000
670.280	26.120	0.150000
675.280	26.150	0.150000
680.280	26.200	0.150000
682.910	26.200	0.150000

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 Name: W04A-SMF2                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	24.780	0.150000
2.500	25.250	0.150000
7.500	26.790	0.150000
12.500	28.420	0.150000
17.500	29.380	0.150000
22.500	29.030	0.150000
27.500	28.370	0.150000
32.500	27.710	0.150000
37.500	27.300	0.150000
42.500	26.830	0.150000
47.500	26.670	0.150000
52.500	26.630	0.150000
57.500	26.420	0.150000
62.500	26.030	0.150000
67.500	25.660	0.150000
72.500	25.490	0.150000
77.500	25.390	0.150000
82.500	25.360	0.150000
87.500	25.390	0.150000
92.440	25.400	0.150000
94.940	25.370	0.150000
99.940	25.280	0.150000
104.940	25.220	0.150000
109.940	25.210	0.150000
114.940	25.260	0.150000
119.940	25.330	0.150000
124.940	25.380	0.150000
129.940	25.420	0.150000
134.940	25.430	0.150000
139.940	25.400	0.150000
144.940	25.480	0.150000
149.940	25.520	0.150000
154.940	25.540	0.150000
159.940	25.520	0.150000
164.940	25.460	0.150000
169.940	25.400	0.150000
174.940	25.370	0.150000
179.940	25.340	0.150000
184.940	25.300	0.150000
189.940	25.250	0.150000
194.940	25.200	0.150000
200.080	25.150	0.150000

\* All elevations are NAVD88.

202.580	25.140	0.150000
207.580	25.120	0.150000
212.580	25.110	0.150000
217.580	25.110	0.150000
222.580	25.120	0.150000
227.580	25.140	0.150000
232.580	25.160	0.150000
237.580	25.190	0.150000
242.580	25.220	0.150000
247.580	25.250	0.150000
252.580	25.280	0.150000
257.580	25.310	0.150000
262.580	25.340	0.150000
267.580	25.350	0.150000
272.580	25.360	0.150000
277.580	25.350	0.150000
282.580	25.330	0.150000
287.580	25.310	0.150000
292.580	25.300	0.150000
299.060	25.290	0.150000
301.560	25.290	0.150000
306.560	25.280	0.150000
311.560	25.290	0.150000
316.560	25.300	0.150000
321.560	25.320	0.150000
326.560	25.350	0.150000
331.560	25.420	0.150000
336.560	25.470	0.150000
341.560	25.540	0.150000
346.560	25.650	0.150000
351.560	25.740	0.150000
356.560	25.800	0.150000
361.560	25.820	0.150000
366.560	25.820	0.150000
371.560	25.810	0.150000
376.560	25.810	0.150000
381.560	25.820	0.150000
386.020	25.830	0.150000
388.520	25.850	0.150000
393.520	25.830	0.150000
398.520	25.740	0.150000
403.520	25.620	0.150000
408.520	25.510	0.150000
413.520	25.390	0.150000
418.520	25.290	0.150000
423.520	25.190	0.150000
428.520	25.080	0.150000
433.520	24.940	0.150000
438.520	24.770	0.150000
443.520	24.600	0.150000
448.520	24.460	0.150000
453.520	24.420	0.150000
458.520	24.410	0.150000
463.520	24.510	0.150000
468.280	24.670	0.150000
470.780	24.740	0.150000
475.780	24.890	0.150000
480.780	25.120	0.150000
485.780	25.230	0.150000
490.780	25.540	0.150000
495.780	25.950	0.150000
500.780	25.970	0.150000
505.780	25.890	0.150000
510.780	25.860	0.150000
515.780	25.840	0.150000
520.780	25.800	0.150000
525.780	25.730	0.150000
530.780	25.700	0.150000
535.780	25.650	0.150000
540.780	25.560	0.150000
545.780	25.460	0.150000
550.780	25.370	0.150000
555.780	25.440	0.150000
560.210	25.580	0.150000
562.710	25.670	0.150000
567.710	26.100	0.150000
572.710	26.510	0.150000
577.710	26.800	0.150000
582.710	26.600	0.150000
587.710	26.170	0.150000
592.710	25.630	0.150000
597.710	25.200	0.150000
602.710	24.560	0.150000
607.710	24.040	0.150000
612.710	23.840	0.150000
617.710	23.820	0.150000
622.710	23.860	0.150000
627.710	23.930	0.150000
632.710	23.970	0.150000
637.710	23.990	0.150000
642.710	23.980	0.150000
647.710	23.860	0.150000

\* All elevations are NAVD88.

654.170	23.680	0.150000
656.670	23.620	0.150000
661.670	23.580	0.150000
666.670	23.660	0.150000
671.670	23.730	0.150000
676.670	23.570	0.150000
681.670	23.610	0.150000
686.670	23.870	0.150000
691.670	24.080	0.150000
696.670	24.210	0.150000
701.670	24.270	0.150000
706.670	24.360	0.150000
711.670	24.590	0.150000
716.670	24.890	0.150000
721.670	25.210	0.150000
726.670	25.600	0.150000
731.670	25.830	0.150000
736.670	25.840	0.150000
741.670	25.510	0.150000
746.670	25.360	0.150000
751.670	25.170	0.150000
756.670	24.980	0.150000
761.670	24.750	0.150000
766.170	24.530	0.150000
768.670	24.410	0.150000
773.670	24.420	0.150000
778.670	24.440	0.150000
783.670	24.480	0.150000
788.670	24.330	0.150000
793.670	24.170	0.150000
798.670	24.100	0.150000
803.670	24.150	0.150000
808.670	24.190	0.150000
813.670	24.170	0.150000
818.670	24.080	0.150000
823.670	23.950	0.150000
828.670	24.150	0.150000
833.670	24.300	0.150000
838.670	24.400	0.150000
843.670	24.470	0.150000
848.670	24.510	0.150000
853.670	24.540	0.150000
858.670	24.560	0.150000
865.600	24.640	0.150000
868.100	24.670	0.150000
873.100	24.770	0.150000
878.100	24.860	0.150000
883.100	24.930	0.150000
888.100	24.950	0.150000
893.100	24.840	0.150000
898.100	24.760	0.150000
903.100	24.820	0.150000
908.100	24.910	0.150000
913.100	25.100	0.150000
918.100	25.200	0.150000
923.100	25.050	0.150000
928.100	25.010	0.150000
933.100	25.020	0.150000
938.100	25.050	0.150000
943.100	25.190	0.150000
948.100	25.480	0.150000
953.100	25.660	0.150000
958.100	25.950	0.150000
963.100	25.760	0.150000
968.100	25.170	0.150000
973.100	24.650	0.150000
978.100	24.430	0.150000
983.100	24.480	0.150000
988.100	24.780	0.150000
995.450	25.510	0.150000
997.950	25.990	0.150000
1002.950	26.710	0.150000
1007.950	26.660	0.150000
1012.950	26.240	0.150000
1017.950	25.700	0.150000
1022.950	25.190	0.150000
1027.950	24.920	0.150000
1032.950	24.620	0.150000
1037.950	24.510	0.150000
1042.950	24.490	0.150000
1047.950	24.550	0.150000
1052.950	24.550	0.150000
1057.950	24.510	0.150000
1062.950	24.430	0.150000
1067.950	24.440	0.150000
1072.950	24.490	0.150000
1077.950	24.550	0.150000
1082.950	24.550	0.150000
1087.950	24.630	0.150000
1092.950	24.660	0.150000
1099.460	24.750	0.150000
1101.960	24.870	0.150000

\* All elevations are NAVD88.

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1106.960	24.910	0.150000
1111.960	24.970	0.150000
1116.960	25.090	0.150000
1121.960	25.340	0.150000
1126.960	25.580	0.150000
1131.960	25.620	0.150000
1136.960	25.210	0.150000
1141.960	24.910	0.150000
1146.960	24.920	0.150000
1151.960	25.100	0.150000
1156.960	25.280	0.150000
1161.960	25.440	0.150000
1166.960	25.490	0.150000
1171.960	25.500	0.150000
1176.960	25.480	0.150000
1181.960	25.380	0.150000
1186.960	25.270	0.150000
1191.960	25.060	0.150000
1196.960	24.640	0.150000
1201.960	24.250	0.150000
1206.960	23.990	0.150000
1211.960	24.010	0.150000
1217.170	23.950	0.150000
1219.670	23.970	0.150000
1224.670	23.970	0.150000
1229.670	23.970	0.150000
1234.670	23.950	0.150000
1239.670	23.910	0.150000
1244.670	23.880	0.150000
1249.670	23.840	0.150000
1254.670	23.820	0.150000
1259.670	23.790	0.150000
1264.670	23.760	0.150000
1269.670	23.740	0.150000
1274.670	23.740	0.150000
1279.670	23.750	0.150000
1284.670	23.760	0.150000
1289.670	23.770	0.150000
1294.670	23.770	0.150000
1299.670	23.780	0.150000
1304.670	23.780	0.150000
1309.670	23.770	0.150000
1314.670	23.770	0.150000
1319.670	23.780	0.150000
1324.670	23.790	0.150000
1329.670	23.800	0.150000
1334.670	23.800	0.150000
1339.670	23.790	0.150000
1344.670	23.770	0.150000
1349.670	23.750	0.150000
1354.670	23.730	0.150000
1359.670	23.720	0.150000
1364.670	23.720	0.150000
1369.670	23.730	0.150000
1374.670	23.740	0.150000
1381.770	23.770	0.150000
1384.270	23.790	0.150000
1389.270	23.820	0.150000
1394.270	23.840	0.150000
1399.270	23.850	0.150000
1404.270	23.850	0.150000
1409.270	23.850	0.150000
1414.270	23.850	0.150000
1419.270	23.860	0.150000
1424.270	23.900	0.150000
1429.270	24.070	0.150000
1434.270	24.510	0.150000
1439.270	24.930	0.150000
1444.270	25.320	0.150000
1449.270	25.670	0.150000
1454.270	26.010	0.150000
1459.270	26.340	0.150000
1464.270	26.700	0.150000
1469.270	26.590	0.150000
1474.270	26.360	0.150000
1479.270	26.470	0.150000
1484.270	26.500	0.150000
1489.270	26.320	0.150000
1494.270	25.860	0.150000
1499.270	25.290	0.150000
1504.270	26.010	0.150000
1509.270	26.550	0.150000
1514.270	27.010	0.150000
1519.270	27.280	0.150000
1524.270	27.150	0.150000
1529.270	26.880	0.150000
1534.270	26.720	0.150000
1539.270	26.770	0.150000
1544.270	26.750	0.150000
1549.270	26.810	0.150000
1554.270	26.810	0.150000
1559.270	26.920	0.150000

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\* All elevations are NAVD88.



Name: W04B-OFFSITE                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	31.120	0.150000
4.980	31.170	0.150000
9.970	31.280	0.150000
14.950	31.290	0.150000
19.930	31.180	0.150000
24.920	31.140	0.150000
29.900	31.280	0.150000
34.890	31.210	0.150000
39.870	31.220	0.150000
44.850	31.430	0.150000
49.840	31.350	0.150000
54.820	31.200	0.150000
59.800	31.230	0.150000
64.790	31.320	0.150000
69.770	31.380	0.150000
74.720	31.370	0.150000
79.670	31.360	0.150000
84.620	31.310	0.150000
89.570	31.390	0.150000
94.520	31.330	0.150000
99.470	31.300	0.150000
104.420	31.300	0.150000
109.370	31.220	0.150000
114.320	31.230	0.150000
119.270	31.110	0.150000
124.220	31.340	0.150000
129.170	31.330	0.150000
134.120	31.320	0.150000
139.070	31.240	0.150000
144.020	31.230	0.150000
148.970	31.200	0.150000
153.920	31.200	0.150000
158.870	31.290	0.150000
163.820	31.430	0.150000
168.770	31.390	0.150000
173.710	31.390	0.150000
178.660	31.380	0.150000
183.610	31.270	0.150000
188.560	31.300	0.150000
193.510	31.240	0.150000
198.460	31.160	0.150000
203.410	31.180	0.150000
208.360	31.160	0.150000
213.310	31.160	0.150000
218.260	31.240	0.150000
223.210	31.180	0.150000
228.160	31.130	0.150000
233.110	31.150	0.150000
238.060	31.220	0.150000
243.010	31.250	0.150000
247.960	31.340	0.150000
252.910	31.260	0.150000
257.860	31.200	0.150000
262.810	31.210	0.150000
267.760	31.240	0.150000
272.710	31.270	0.150000
277.660	31.230	0.150000
282.610	31.140	0.150000
287.560	31.170	0.150000
292.510	31.240	0.150000
297.460	31.200	0.150000
302.410	31.170	0.150000
307.360	31.210	0.150000
312.310	31.180	0.150000
317.260	31.100	0.150000
322.210	31.090	0.150000
327.160	31.070	0.150000
332.110	31.060	0.150000
337.060	31.160	0.150000
342.010	31.290	0.150000
346.960	31.280	0.150000
351.910	31.200	0.150000
356.860	31.230	0.150000
361.810	31.300	0.150000
366.760	31.250	0.150000
371.710	31.170	0.150000
376.650	31.080	0.150000
381.600	31.140	0.150000
386.550	31.190	0.150000
391.500	31.160	0.150000
396.450	31.170	0.150000
401.400	31.260	0.150000
406.350	31.240	0.150000

\* All elevations are NAVD88.

411.300	31.210	0.150000
416.250	31.190	0.150000
421.200	31.270	0.150000
426.150	31.170	0.150000
431.100	31.110	0.150000
436.050	31.120	0.150000
441.000	31.140	0.150000
445.950	31.100	0.150000
450.900	31.200	0.150000
455.850	31.180	0.150000
460.800	31.140	0.150000
465.750	31.170	0.150000
470.750	31.210	0.150000
475.750	31.230	0.150000
480.750	31.310	0.150000
485.750	31.100	0.150000
490.750	31.110	0.150000
495.750	31.110	0.150000
500.750	31.050	0.150000
505.750	31.080	0.150000
510.750	31.100	0.150000
515.750	31.140	0.150000
520.750	31.080	0.150000
525.750	31.180	0.150000
530.750	31.150	0.150000
535.750	31.070	0.150000
540.750	30.990	0.150000
545.750	31.250	0.150000
550.750	31.120	0.150000
555.750	31.060	0.150000
560.750	31.050	0.150000
565.750	31.060	0.150000
570.750	31.070	0.150000
575.740	31.000	0.150000
580.740	31.000	0.150000
585.740	31.010	0.150000
590.740	31.000	0.150000
595.740	31.100	0.150000
600.740	31.070	0.150000
605.740	31.080	0.150000
610.740	31.060	0.150000
615.740	31.030	0.150000
620.740	31.020	0.150000
625.740	31.010	0.150000
630.740	31.050	0.150000
635.740	31.040	0.150000
640.740	31.070	0.150000
645.740	31.030	0.150000
650.740	31.090	0.150000
655.740	31.040	0.150000
660.740	31.060	0.150000
665.740	30.990	0.150000
670.740	31.070	0.150000
675.740	31.080	0.150000
680.740	30.990	0.150000
685.740	30.950	0.150000
690.740	30.830	0.150000
695.740	30.990	0.150000
700.740	30.940	0.150000
705.740	30.950	0.150000
710.740	30.980	0.150000
715.740	30.950	0.150000
720.740	30.990	0.150000
725.740	30.860	0.150000
730.740	30.940	0.150000
735.740	31.030	0.150000
740.740	31.020	0.150000
745.740	30.980	0.150000
750.740	30.920	0.150000
755.740	30.870	0.150000
760.740	30.820	0.150000
765.740	30.710	0.150000
770.740	30.850	0.150000
775.740	30.840	0.150000
780.730	30.830	0.150000
785.730	30.720	0.150000
790.730	30.720	0.150000
795.730	30.810	0.150000
800.730	30.770	0.150000
805.730	30.720	0.150000
810.730	30.780	0.150000
815.730	30.840	0.150000
820.730	30.730	0.150000
825.730	30.680	0.150000
830.730	30.750	0.150000
835.730	30.920	0.150000
840.730	30.890	0.150000
845.730	30.750	0.150000
850.730	30.770	0.150000
855.730	30.940	0.150000
860.730	30.790	0.150000
865.730	30.700	0.150000

\* All elevations are NAVD88.



870.730	30.700	0.150000
875.730	30.720	0.150000
880.730	30.760	0.150000
885.730	30.860	0.150000
890.730	30.720	0.150000
895.730	30.700	0.150000
900.730	30.820	0.150000
905.730	30.820	0.150000
910.730	30.780	0.150000
915.730	30.760	0.150000
920.730	30.760	0.150000
925.730	30.740	0.150000
930.730	30.730	0.150000
935.730	30.870	0.150000
940.730	30.860	0.150000
945.730	30.600	0.150000
950.730	30.590	0.150000
955.730	30.660	0.150000
960.730	30.760	0.150000
965.730	30.750	0.150000
970.730	30.710	0.150000
975.730	30.750	0.150000
980.730	30.720	0.150000
985.720	30.680	0.150000
990.720	30.680	0.150000
995.720	30.770	0.150000
1000.720	30.730	0.150000
1005.720	30.620	0.150000
1010.720	30.670	0.150000
1015.720	30.740	0.150000
1020.720	30.760	0.150000
1025.720	30.760	0.150000
1030.720	30.750	0.150000
1035.720	30.750	0.150000
1040.720	30.640	0.150000
1045.720	30.590	0.150000
1050.720	30.630	0.150000
1055.720	30.600	0.150000
1060.720	30.680	0.150000
1065.720	30.650	0.150000
1070.720	30.640	0.150000
1075.720	30.660	0.150000
1080.720	30.710	0.150000
1085.720	30.720	0.150000
1090.720	30.610	0.150000
1095.720	30.510	0.150000
1100.720	30.600	0.150000
1105.720	30.660	0.150000
1110.720	30.620	0.150000
1115.720	30.600	0.150000
1120.720	30.580	0.150000
1125.720	30.580	0.150000
1130.720	30.560	0.150000
1135.720	30.530	0.150000
1140.720	30.540	0.150000
1145.720	30.480	0.150000
1150.720	30.410	0.150000
1155.720	30.500	0.150000
1160.720	30.520	0.150000
1165.720	30.460	0.150000
1170.720	30.500	0.150000
1175.720	30.520	0.150000
1180.720	30.470	0.150000
1185.720	30.400	0.150000
1190.710	30.430	0.150000
1195.710	30.500	0.150000
1200.710	30.520	0.150000
1205.710	30.540	0.150000
1210.710	30.500	0.150000
1215.710	30.440	0.150000
1220.710	30.420	0.150000
1225.710	30.510	0.150000
1230.710	30.640	0.150000
1235.710	30.600	0.150000
1240.710	30.440	0.150000
1245.710	30.310	0.150000
1250.710	30.320	0.150000
1255.710	30.400	0.150000
1260.710	30.420	0.150000
1265.710	30.430	0.150000
1270.710	30.460	0.150000
1275.710	30.490	0.150000
1280.710	30.480	0.150000
1285.710	30.410	0.150000
1290.710	30.340	0.150000
1295.710	30.330	0.150000
1300.710	30.370	0.150000
1305.710	30.390	0.150000
1310.710	30.420	0.150000
1315.710	30.470	0.150000
1320.710	30.420	0.150000
1325.710	30.260	0.150000

\* All elevations are NAVD88.

1330.710	30.220	0.150000
1335.710	30.350	0.150000
1340.710	30.450	0.150000
1345.710	30.460	0.150000
1350.710	30.370	0.150000
1355.710	30.370	0.150000
1360.710	30.400	0.150000
1365.710	30.390	0.150000
1370.710	30.410	0.150000
1375.710	30.420	0.150000
1380.710	30.400	0.150000
1385.710	30.330	0.150000
1390.700	30.360	0.150000
1395.700	30.350	0.150000
1400.700	30.290	0.150000
1405.700	30.310	0.150000
1410.700	30.330	0.150000
1415.700	30.250	0.150000
1420.700	30.090	0.150000
1425.700	30.110	0.150000
1430.700	30.270	0.150000
1435.700	30.350	0.150000
1440.700	30.400	0.150000
1445.700	30.320	0.150000
1450.700	30.200	0.150000
1455.700	30.160	0.150000
1460.700	30.170	0.150000
1465.700	30.340	0.150000
1470.700	30.510	0.150000
1475.700	30.370	0.150000
1480.700	30.180	0.150000
1485.700	30.130	0.150000
1490.700	30.140	0.150000
1495.700	29.980	0.150000
1500.700	29.990	0.150000
1505.700	30.050	0.150000
1510.700	30.090	0.150000
1515.700	30.130	0.150000
1520.700	30.270	0.150000
1525.700	30.300	0.150000
1530.700	30.270	0.150000
1535.700	30.210	0.150000
1540.700	30.270	0.150000
1545.700	30.300	0.150000
1550.700	30.300	0.150000
1555.700	30.260	0.150000
1560.700	30.300	0.150000
1565.700	30.300	0.150000
1570.700	30.160	0.150000
1575.700	30.160	0.150000
1580.700	30.260	0.150000
1585.700	30.230	0.150000
1590.700	30.200	0.150000
1595.700	30.200	0.150000
1600.690	30.260	0.150000
1605.690	30.270	0.150000
1610.690	30.120	0.150000
1615.690	30.240	0.150000
1620.690	30.300	0.150000
1625.690	30.280	0.150000
1630.690	30.250	0.150000
1635.690	30.160	0.150000
1640.690	30.050	0.150000
1645.690	30.020	0.150000
1650.690	30.170	0.150000
1655.690	30.190	0.150000
1660.690	30.160	0.150000
1665.690	30.210	0.150000
1670.690	30.200	0.150000
1675.690	30.080	0.150000
1680.690	30.120	0.150000
1685.690	30.120	0.150000
1690.690	30.170	0.150000
1695.690	30.130	0.150000
1700.690	30.100	0.150000
1705.690	30.080	0.150000
1710.690	30.020	0.150000
1715.690	30.090	0.150000
1720.690	30.170	0.150000
1725.690	30.130	0.150000
1730.690	30.070	0.150000
1735.690	29.940	0.150000
1740.690	30.080	0.150000
1745.690	30.050	0.150000
1750.690	29.890	0.150000
1755.690	29.940	0.150000
1760.690	30.020	0.150000
1765.690	30.150	0.150000
1770.690	30.140	0.150000
1775.690	29.900	0.150000
1780.690	30.000	0.150000
1785.690	30.080	0.150000

\* All elevations are NAVD88.

1790.690	30.020	0.150000
1795.690	29.970	0.150000
1800.690	29.990	0.150000
1805.690	30.060	0.150000
1810.680	30.050	0.150000
1815.680	30.070	0.150000
1820.680	29.990	0.150000
1825.680	29.890	0.150000
1830.680	29.970	0.150000
1835.680	30.090	0.150000
1840.680	30.030	0.150000
1845.680	29.950	0.150000
1850.680	29.980	0.150000
1855.680	30.090	0.150000
1860.680	30.090	0.150000
1865.680	30.050	0.150000
1870.680	29.830	0.150000
1875.680	30.010	0.150000
1880.680	29.910	0.150000
1885.680	29.950	0.150000
1890.680	29.950	0.150000
1895.680	29.890	0.150000
1900.680	29.900	0.150000
1905.680	30.000	0.150000
1910.680	30.100	0.150000
1915.680	29.820	0.150000
1920.680	29.850	0.150000
1925.680	29.870	0.150000
1930.660	29.870	0.150000
1935.630	29.940	0.150000
1940.610	29.960	0.150000
1945.580	29.900	0.150000
1950.560	29.980	0.150000
1955.530	30.000	0.150000
1960.510	30.020	0.150000
1965.490	29.930	0.150000
1970.460	29.680	0.150000
1975.440	29.660	0.150000
1980.410	29.900	0.150000

Name: W04B-SMF2wet                                      Group: BASE  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	27.420	0.150000
2.500	27.400	0.150000
7.500	27.210	0.150000
12.500	26.960	0.150000
17.500	26.560	0.150000
22.500	26.120	0.150000
27.500	25.430	0.150000
32.500	24.960	0.150000
37.500	24.770	0.150000
42.500	24.820	0.150000
47.500	25.150	0.150000
52.500	25.320	0.150000
57.500	25.320	0.150000
62.500	25.350	0.150000
67.500	25.380	0.150000
72.500	25.330	0.150000
77.500	25.140	0.150000
82.500	24.940	0.150000
87.500	25.010	0.150000
92.500	25.060	0.150000
97.500	25.010	0.150000
102.500	25.050	0.150000
107.500	25.200	0.150000
112.500	25.410	0.150000
117.500	25.480	0.150000
122.500	25.410	0.150000
127.500	25.550	0.150000
132.500	26.030	0.150000
137.500	26.010	0.150000
142.500	25.740	0.150000
147.500	25.450	0.150000
152.500	25.330	0.150000
157.500	25.320	0.150000
162.500	25.290	0.150000
167.500	25.230	0.150000
172.500	25.180	0.150000
177.500	25.150	0.150000
182.500	25.130	0.150000
187.500	25.110	0.150000
192.500	25.140	0.150000
197.500	25.140	0.150000
202.800	25.150	0.150000
205.300	25.150	0.150000
210.300	25.170	0.150000

\* All elevations are NAVD88.

215.300	25.240	0.150000
220.300	25.340	0.150000
225.300	25.470	0.150000
230.300	25.570	0.150000
235.300	25.460	0.150000
240.300	25.310	0.150000
245.300	25.290	0.150000
250.300	25.310	0.150000
255.300	25.320	0.150000
260.300	25.320	0.150000
265.300	25.300	0.150000
270.300	25.270	0.150000
275.300	25.220	0.150000
280.300	25.180	0.150000
285.300	25.130	0.150000
290.300	25.090	0.150000
295.300	25.110	0.150000
300.300	25.450	0.150000
305.300	26.140	0.150000
310.300	26.750	0.150000
315.300	27.080	0.150000
320.300	27.230	0.150000
325.300	27.480	0.150000
330.300	27.710	0.150000
335.300	27.760	0.150000
340.300	27.750	0.150000
345.300	27.610	0.150000
350.300	27.310	0.150000
355.300	26.850	0.150000
360.870	26.290	0.150000
363.370	26.140	0.150000
368.370	26.090	0.150000
373.370	25.990	0.150000
378.370	25.910	0.150000
383.370	25.820	0.150000
388.370	25.710	0.150000
393.370	25.760	0.150000
398.370	25.890	0.150000
403.370	25.900	0.150000
408.370	25.870	0.150000
413.370	26.060	0.150000
418.370	26.230	0.150000
423.370	26.280	0.150000
428.370	26.170	0.150000
433.370	25.860	0.150000
438.370	25.530	0.150000
443.370	25.490	0.150000
448.370	25.350	0.150000
453.370	24.940	0.150000
458.370	25.110	0.150000
463.370	25.320	0.150000
468.370	25.480	0.150000
473.370	25.580	0.150000
478.370	25.650	0.150000
481.470	25.710	0.150000
483.970	25.760	0.150000
488.970	25.860	0.150000
493.970	25.810	0.150000
498.970	25.880	0.150000
503.970	25.940	0.150000
508.970	26.170	0.150000
513.970	26.910	0.150000
518.970	27.530	0.150000
523.970	27.810	0.150000
528.970	27.880	0.150000
533.970	27.550	0.150000
538.970	26.880	0.150000
543.970	26.180	0.150000
548.970	25.850	0.150000
553.970	26.030	0.150000
558.970	26.400	0.150000
563.970	26.780	0.150000
568.970	27.050	0.150000
573.970	27.150	0.150000
578.970	27.160	0.150000
583.970	26.730	0.150000
588.970	26.460	0.150000
593.970	26.460	0.150000
596.550	26.460	0.150000
599.050	26.450	0.150000
604.050	26.440	0.150000
609.050	26.010	0.150000
614.050	25.470	0.150000
619.050	25.430	0.150000
624.050	25.700	0.150000
629.050	26.480	0.150000
634.050	27.020	0.150000
639.050	27.240	0.150000
644.050	26.740	0.150000
649.050	26.240	0.150000
654.050	25.960	0.150000
659.050	25.720	0.150000

\* All elevations are NAVD88.

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664.050	25.620	0.150000
669.050	25.530	0.150000
674.050	25.440	0.150000
679.050	25.550	0.150000
684.050	25.880	0.150000
689.050	26.250	0.150000
694.050	26.600	0.150000
699.050	26.670	0.150000
704.050	26.620	0.150000
709.050	26.580	0.150000
714.050	26.430	0.150000
717.940	26.350	0.150000
720.440	26.300	0.150000
725.440	26.150	0.150000
730.440	25.850	0.150000
735.440	25.570	0.150000
740.440	25.350	0.150000
745.440	25.290	0.150000
750.440	25.030	0.150000
755.440	24.580	0.150000
760.440	24.390	0.150000
765.440	24.400	0.150000
770.440	24.500	0.150000
775.440	24.560	0.150000
780.440	24.600	0.150000
785.440	24.650	0.150000
790.440	24.680	0.150000
795.440	24.700	0.150000
800.440	24.680	0.150000
805.440	24.620	0.150000
807.990	24.590	0.150000
810.490	24.560	0.150000
815.490	24.510	0.150000
820.490	24.460	0.150000
825.490	24.420	0.150000
830.490	24.400	0.150000
835.490	24.370	0.150000
840.490	24.330	0.150000
845.490	24.300	0.150000
850.490	24.290	0.150000
855.490	24.270	0.150000
860.490	24.250	0.150000
865.490	24.220	0.150000
870.490	24.180	0.150000
875.490	24.130	0.150000
880.490	24.100	0.150000
885.490	24.080	0.150000
890.490	24.080	0.150000
895.490	24.090	0.150000
900.490	24.100	0.150000
903.530	24.100	0.150000
906.040	24.090	0.150000
911.040	24.080	0.150000
916.040	24.060	0.150000
921.040	24.050	0.150000
926.030	24.030	0.150000
931.040	24.020	0.150000
936.040	24.000	0.150000
941.040	24.000	0.150000
946.040	24.000	0.150000
951.040	24.010	0.150000
956.040	24.000	0.150000
961.040	23.980	0.150000
966.040	23.910	0.150000
971.040	23.910	0.150000
976.040	23.910	0.150000
981.030	23.760	0.150000
986.030	23.690	0.150000
992.820	23.970	0.150000
995.320	24.090	0.150000
1000.320	24.260	0.150000
1005.320	24.130	0.150000
1010.320	24.010	0.150000
1015.320	23.910	0.150000
1020.320	23.880	0.150000
1025.320	23.880	0.150000
1030.320	23.880	0.150000
1035.320	23.860	0.150000
1040.320	23.830	0.150000
1045.320	23.720	0.150000
1050.320	23.690	0.150000
1055.320	23.840	0.150000
1060.320	24.080	0.150000
1065.320	24.300	0.150000
1070.320	24.380	0.150000
1075.320	24.870	0.150000
1080.320	25.370	0.150000
1085.320	25.650	0.150000
1090.320	25.900	0.150000
1094.960	26.070	0.150000
1097.460	26.020	0.150000
1102.460	25.930	0.150000

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\* All elevations are NAVD88.

1107.460	25.450	0.150000
1112.460	24.980	0.150000
1117.460	24.820	0.150000
1122.460	24.610	0.150000
1127.460	24.340	0.150000
1132.460	24.100	0.150000
1137.460	23.950	0.150000
1142.460	23.830	0.150000
1147.460	23.710	0.150000
1152.460	23.630	0.150000
1157.460	23.630	0.150000
1162.460	23.660	0.150000
1167.460	23.670	0.150000
1172.460	23.620	0.150000
1177.460	23.680	0.150000
1182.460	23.890	0.150000
1187.460	23.940	0.150000
1192.460	23.780	0.150000
1197.460	23.770	0.150000
1200.920	23.780	0.150000
1203.420	23.780	0.150000
1208.420	23.770	0.150000
1213.420	23.810	0.150000
1218.420	23.920	0.150000
1223.420	23.960	0.150000
1228.420	23.950	0.150000
1233.420	23.930	0.150000
1238.420	23.900	0.150000
1243.420	23.840	0.150000
1248.420	23.780	0.150000
1253.420	23.770	0.150000
1258.420	23.780	0.150000
1263.420	23.780	0.150000
1268.420	23.770	0.150000
1273.420	23.750	0.150000
1278.420	23.740	0.150000
1283.420	23.720	0.150000
1288.420	23.720	0.150000
1293.420	23.710	0.150000
1298.420	23.710	0.150000
1303.420	23.710	0.150000
1308.420	23.740	0.150000
1313.420	23.770	0.150000
1318.420	23.830	0.150000
1323.420	23.880	0.150000
1328.420	23.930	0.150000
1333.420	23.980	0.150000
1338.420	24.010	0.150000
1343.420	24.070	0.150000
1348.420	24.200	0.150000
1353.420	24.390	0.150000
1358.420	24.710	0.150000
1363.420	24.990	0.150000
1368.420	25.300	0.150000
1371.460	25.540	0.150000
1373.960	25.650	0.150000
1378.960	25.880	0.150000
1383.960	26.080	0.150000
1388.960	26.200	0.150000
1393.960	26.170	0.150000
1398.960	26.130	0.150000
1403.960	26.160	0.150000
1408.960	26.220	0.150000
1413.960	26.280	0.150000
1418.960	26.290	0.150000
1423.960	26.320	0.150000
1428.960	26.640	0.150000
1433.960	27.030	0.150000
1438.960	27.190	0.150000
1443.960	27.130	0.150000
1448.960	27.270	0.150000
1453.960	27.390	0.150000
1458.960	27.290	0.150000
1463.960	27.150	0.150000
1468.960	26.990	0.150000
1473.960	27.080	0.150000
1478.960	27.190	0.150000
1483.960	27.280	0.150000
1488.960	27.350	0.150000
1492.990	27.390	0.150000
1495.490	27.410	0.150000
1500.490	26.690	0.150000
1505.490	26.360	0.150000
1510.490	26.300	0.150000
1515.490	26.610	0.150000
1520.490	26.610	0.150000
1525.490	26.350	0.150000
1530.490	26.280	0.150000
1535.490	26.160	0.150000
1540.490	25.880	0.150000
1545.050	25.900	0.150000
1547.550	26.010	0.150000

\* All elevations are NAVD88.

1552.550	26.230	0.150000
1557.550	26.400	0.150000
1564.580	26.500	0.150000
1565.220	26.440	0.150000
1567.720	26.250	0.150000
1572.720	26.030	0.150000
1577.720	26.640	0.150000
1582.720	27.210	0.150000
1587.720	27.320	0.150000
1592.720	27.290	0.150000
1597.720	27.040	0.150000
1602.720	26.710	0.150000
1607.720	26.500	0.150000
1612.720	26.600	0.150000
1617.720	26.590	0.150000
1622.720	26.830	0.150000
1627.720	26.690	0.150000
1632.720	26.540	0.150000
1637.720	26.360	0.150000
1642.720	26.270	0.150000
1647.720	26.170	0.150000
1652.720	26.170	0.150000
1657.720	26.310	0.150000
1662.720	26.490	0.150000
1667.720	26.380	0.150000
1672.720	26.320	0.150000
1677.720	26.310	0.150000
1682.720	26.290	0.150000
1687.720	26.330	0.150000
1692.720	26.440	0.150000
1697.720	26.490	0.150000
1702.720	26.480	0.150000
1707.720	26.340	0.150000
1712.720	26.310	0.150000
1717.720	26.680	0.150000
1722.720	26.630	0.150000
1727.720	26.480	0.150000
1732.720	26.640	0.150000
1737.720	26.780	0.150000
1742.720	25.970	0.150000
1747.720	25.020	0.150000
1752.720	25.400	0.150000
1756.640	25.750	0.150000
1759.140	25.910	0.150000
1764.140	26.120	0.150000
1769.140	26.240	0.150000
1774.140	26.250	0.150000
1779.140	26.390	0.150000
1784.140	26.820	0.150000
1789.140	27.860	0.150000
1794.140	28.760	0.150000
1799.140	28.800	0.150000
1804.140	28.350	0.150000
1809.140	27.800	0.150000
1814.140	27.490	0.150000
1819.140	27.390	0.150000
1824.140	27.290	0.150000
1829.140	27.270	0.150000
1834.140	27.730	0.150000
1839.140	27.970	0.150000
1844.140	27.920	0.150000
1849.140	28.150	0.150000
1854.560	28.450	0.150000
1857.060	28.210	0.150000
1862.060	28.070	0.150000
1867.060	28.290	0.150000
1872.060	28.570	0.150000
1877.060	28.700	0.150000
1882.060	28.240	0.150000
1887.060	27.680	0.150000
1892.060	27.110	0.150000
1897.060	26.590	0.150000
1902.060	26.410	0.150000
1907.060	26.270	0.150000
1912.060	26.120	0.150000
1917.060	25.900	0.150000
1922.060	25.690	0.150000
1927.060	25.480	0.150000
1932.060	25.330	0.150000
1937.060	25.230	0.150000
1942.060	25.170	0.150000
1947.060	25.190	0.150000
1952.060	25.240	0.150000
1957.060	25.300	0.150000
1962.060	25.410	0.150000
1967.060	25.470	0.150000
1972.060	25.540	0.150000
1977.060	25.770	0.150000
1982.060	25.890	0.150000
1987.060	25.990	0.150000
1992.060	26.080	0.150000
1997.060	26.070	0.150000

\* All elevations are NAVD88.

2002.060	25.980	0.150000
2007.060	25.990	0.150000
2012.060	26.080	0.150000
2017.060	26.110	0.150000
2022.060	26.230	0.150000
2027.060	26.610	0.150000
2033.210	27.290	0.150000
2035.710	27.420	0.150000
2040.710	27.820	0.150000
2043.470	28.000	0.150000

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 Name: W05A-CHLAKE15                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	26.720	0.150000
0.130	26.720	0.150000
4.760	26.450	0.150000
9.390	26.120	0.150000
14.020	25.840	0.150000
18.640	25.620	0.150000
23.270	25.430	0.150000
27.900	25.260	0.150000
32.530	25.110	0.150000
37.150	25.070	0.150000
41.780	25.290	0.150000
46.410	25.430	0.150000
51.040	25.540	0.150000
55.790	25.470	0.150000
60.550	25.250	0.150000
65.300	25.320	0.150000
70.060	25.220	0.150000
74.820	25.230	0.150000
79.570	25.220	0.150000
84.330	25.110	0.150000
89.080	24.920	0.150000
93.840	24.820	0.150000
98.590	24.780	0.150000
103.350	24.740	0.150000
108.100	24.700	0.150000
113.090	24.640	0.150000
118.080	24.570	0.150000
123.070	24.450	0.150000
128.060	24.310	0.150000
133.040	24.340	0.150000
138.030	24.420	0.150000
143.020	24.360	0.150000
148.010	24.390	0.150000
152.990	24.410	0.150000
157.970	24.480	0.150000
162.960	24.570	0.150000
167.940	24.580	0.150000
172.920	24.510	0.150000
177.910	24.470	0.150000
182.890	24.490	0.150000
187.870	24.590	0.150000
192.860	24.720	0.150000
197.840	24.820	0.150000
202.820	24.850	0.150000
207.810	24.790	0.150000
212.680	24.730	0.150000
217.550	24.580	0.150000
222.410	24.500	0.150000
227.280	24.450	0.150000
232.150	24.420	0.150000
237.020	24.390	0.150000
241.890	24.340	0.150000
246.760	24.320	0.150000
251.630	24.440	0.150000
256.500	24.580	0.150000
261.370	24.590	0.150000
266.340	24.630	0.150000
271.310	24.530	0.150000
276.280	24.450	0.150000
281.250	24.390	0.150000
286.220	24.480	0.150000
291.190	24.570	0.150000
296.170	24.550	0.150000
301.140	24.690	0.150000
306.110	24.730	0.150000
311.080	24.740	0.150000
316.050	24.640	0.150000
321.020	24.520	0.150000
325.990	24.500	0.150000
330.960	24.500	0.150000
335.930	24.520	0.150000
340.910	24.540	0.150000
345.880	24.590	0.150000

\* All elevations are NAVD88.



350.850	24.620	0.150000
355.820	24.660	0.150000
360.790	24.650	0.150000
365.760	24.600	0.150000
370.730	24.570	0.150000
375.700	24.540	0.150000
380.680	24.530	0.150000
385.650	24.510	0.150000
390.620	24.520	0.150000
395.590	24.550	0.150000
400.560	24.600	0.150000
405.530	24.660	0.150000
410.160	24.730	0.150000
414.790	24.850	0.150000
419.420	24.970	0.150000
424.050	25.150	0.150000
428.670	25.220	0.150000
433.300	24.980	0.150000
437.930	25.170	0.150000
442.560	25.420	0.150000
447.550	25.330	0.150000
452.530	25.130	0.150000
457.520	24.920	0.150000
462.510	24.770	0.150000
467.490	24.880	0.150000
472.480	24.970	0.150000
477.470	24.880	0.150000
482.450	24.750	0.150000
487.440	24.680	0.150000
492.430	24.660	0.150000
497.410	24.680	0.150000
502.400	24.690	0.150000
507.390	24.690	0.150000
512.370	24.680	0.150000
517.360	24.630	0.150000
522.350	24.490	0.150000
527.330	24.670	0.150000
532.320	24.980	0.150000
537.310	25.140	0.150000
542.290	24.970	0.150000
547.280	24.520	0.150000
552.270	24.310	0.150000
557.250	24.290	0.150000
562.240	24.380	0.150000
567.230	24.620	0.150000
572.210	24.920	0.150000
577.200	25.190	0.150000
582.190	25.170	0.150000
587.180	25.070	0.150000
592.160	25.040	0.150000
597.150	24.790	0.150000
602.140	24.320	0.150000
607.120	24.310	0.150000
612.110	24.600	0.150000
617.100	24.930	0.150000
622.080	25.210	0.150000
627.070	25.490	0.150000
632.060	25.580	0.150000
637.040	25.390	0.150000
642.030	25.080	0.150000
647.020	24.800	0.150000
652.000	24.730	0.150000
656.990	24.720	0.150000
661.980	24.710	0.150000
666.960	24.700	0.150000
671.950	24.630	0.150000
676.940	24.570	0.150000
681.920	24.530	0.150000
686.910	24.660	0.150000
691.900	24.640	0.150000
696.880	24.520	0.150000
701.870	24.490	0.150000
706.860	24.540	0.150000
711.840	24.580	0.150000
716.830	24.730	0.150000
721.820	24.800	0.150000
726.800	24.810	0.150000
731.790	24.860	0.150000
736.780	24.900	0.150000
741.760	24.980	0.150000
746.750	25.080	0.150000
751.740	25.350	0.150000
756.200	25.490	0.150000
760.670	25.570	0.150000
765.130	25.550	0.150000
769.600	25.420	0.150000
774.060	25.050	0.150000
778.530	24.790	0.150000
783.340	24.660	0.150000
788.150	24.790	0.150000
792.960	25.220	0.150000
797.770	25.780	0.150000

\* All elevations are NAVD88.

802.580	26.010	0.150000
807.380	26.020	0.150000
812.190	25.910	0.150000
817.000	25.750	0.150000
821.810	25.640	0.150000
826.620	25.560	0.150000
831.430	25.540	0.150000
836.240	25.620	0.150000
841.050	25.810	0.150000
845.860	25.960	0.150000
850.670	26.130	0.150000
855.480	25.970	0.150000
860.290	25.640	0.150000
865.100	25.590	0.150000
869.910	25.430	0.150000
874.710	25.010	0.150000
879.520	24.750	0.150000
884.330	24.760	0.150000
889.310	24.840	0.150000
894.280	24.800	0.150000
899.250	24.750	0.150000
904.220	25.580	0.150000
909.200	25.860	0.150000
914.170	25.630	0.150000
919.140	25.330	0.150000
924.110	25.050	0.150000
929.090	24.980	0.150000
934.060	25.100	0.150000
939.030	25.450	0.150000
944.000	25.210	0.150000
948.980	24.900	0.150000
953.950	24.580	0.150000
958.920	24.210	0.150000
963.890	24.120	0.150000
968.870	24.250	0.150000
973.840	24.450	0.150000
978.810	24.690	0.150000
983.780	25.020	0.150000
988.760	25.190	0.150000
993.730	24.990	0.150000
998.700	24.650	0.150000
1003.670	24.380	0.150000
1008.650	24.360	0.150000
1013.620	24.600	0.150000
1018.590	24.750	0.150000
1023.560	24.680	0.150000
1028.540	24.610	0.150000
1033.510	24.890	0.150000
1038.480	25.160	0.150000
1043.450	25.150	0.150000
1048.200	25.090	0.150000
1052.950	25.100	0.150000
1057.710	25.200	0.150000
1062.460	25.330	0.150000
1067.210	25.510	0.150000
1071.960	25.750	0.150000
1076.710	26.110	0.150000
1081.460	26.620	0.150000
1086.210	27.320	0.150000
1090.960	27.900	0.150000
1095.710	28.220	0.150000
1100.460	28.310	0.150000
1105.220	28.370	0.150000
1109.940	28.470	0.150000
1114.670	28.460	0.150000
1119.390	28.500	0.150000
1122.030	28.540	0.150000

Name: W06A-04A  
Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	26.650	0.150000
2.500	26.860	0.150000
7.500	27.210	0.150000
12.500	27.250	0.150000
17.500	27.030	0.150000
22.500	26.720	0.150000
27.500	26.350	0.150000
32.500	26.150	0.150000
37.500	26.160	0.150000
42.500	26.230	0.150000
47.500	26.330	0.150000
52.500	26.390	0.150000
57.500	26.560	0.150000
62.500	26.960	0.150000
67.500	27.210	0.150000
72.500	27.800	0.150000

\* All elevations are NAVD88.

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77.500	28.390	0.150000
82.500	27.820	0.150000
87.500	27.310	0.150000
92.500	26.820	0.150000
97.500	26.600	0.150000
102.500	26.630	0.150000
107.500	26.550	0.150000
112.320	26.480	0.150000
114.820	26.450	0.150000
119.820	26.380	0.150000
124.820	26.380	0.150000
129.820	26.290	0.150000
134.820	26.500	0.150000
139.820	26.970	0.150000
144.820	27.190	0.150000
149.820	27.260	0.150000
154.820	27.320	0.150000
159.820	27.370	0.150000
164.820	27.380	0.150000
169.820	27.360	0.150000
174.820	27.380	0.150000
179.820	27.360	0.150000
184.820	27.240	0.150000
189.820	27.090	0.150000
194.820	26.870	0.150000
199.820	26.350	0.150000
204.820	26.390	0.150000
209.820	26.410	0.150000
214.820	26.200	0.150000
219.820	26.070	0.150000
224.820	26.360	0.150000
229.820	26.850	0.150000
234.820	27.240	0.150000
239.820	26.990	0.150000
244.820	26.460	0.150000
249.820	26.050	0.150000
254.820	25.910	0.150000
259.820	26.140	0.150000
264.820	26.370	0.150000
269.820	26.530	0.150000
274.820	26.690	0.150000
279.820	26.680	0.150000
284.820	26.780	0.150000
289.820	27.200	0.150000
294.820	27.510	0.150000
299.820	27.480	0.150000
304.820	27.360	0.150000
309.820	27.310	0.150000
314.820	27.480	0.150000
319.820	27.350	0.150000
324.820	27.210	0.150000
329.820	27.070	0.150000
334.820	26.980	0.150000
339.820	26.910	0.150000
344.820	26.780	0.150000
349.820	26.670	0.150000
354.820	26.320	0.150000
359.820	25.630	0.150000
364.820	25.950	0.150000
369.820	26.250	0.150000
374.820	26.210	0.150000
379.820	26.140	0.150000
384.820	26.090	0.150000
389.820	26.150	0.150000
394.820	26.430	0.150000
399.820	26.480	0.150000
404.820	26.290	0.150000
409.820	26.110	0.150000
415.800	26.160	0.150000
418.300	26.180	0.150000
423.300	26.120	0.150000
428.300	26.120	0.150000
433.300	26.150	0.150000
438.300	26.530	0.150000
443.300	26.550	0.150000
448.300	26.350	0.150000
453.300	26.180	0.150000
458.300	26.170	0.150000
463.300	26.160	0.150000
468.300	26.140	0.150000
473.300	26.180	0.150000
478.300	26.200	0.150000
483.300	26.210	0.150000
488.300	26.230	0.150000
493.300	26.240	0.150000
498.300	26.240	0.150000
503.300	26.270	0.150000
508.300	26.270	0.150000
513.300	26.280	0.150000
518.300	26.270	0.150000
523.300	26.220	0.150000
528.300	26.150	0.150000

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\* All elevations are NAVD88.

533.300	26.090	0.150000
538.300	26.040	0.150000
543.300	26.080	0.150000
548.300	26.140	0.150000
553.300	26.170	0.150000
558.300	26.250	0.150000
563.300	26.330	0.150000
568.300	26.380	0.150000
573.300	26.340	0.150000
578.300	26.300	0.150000
583.300	26.240	0.150000
588.300	26.280	0.150000
593.300	26.450	0.150000
598.300	26.590	0.150000
603.300	26.660	0.150000
608.300	26.740	0.150000
613.300	26.800	0.150000
618.300	26.800	0.150000
623.300	26.740	0.150000
628.300	26.770	0.150000
633.300	27.140	0.150000
638.300	27.570	0.150000
643.300	27.280	0.150000
648.300	26.920	0.150000
653.300	26.790	0.150000
658.300	26.580	0.150000
663.300	26.610	0.150000
668.300	26.660	0.150000
673.300	26.270	0.150000
678.300	26.120	0.150000
683.970	25.960	0.150000
686.470	25.870	0.150000
691.470	25.670	0.150000
696.470	25.530	0.150000
701.470	25.440	0.150000
706.470	25.400	0.150000
711.470	25.300	0.150000
716.470	25.280	0.150000
721.470	25.480	0.150000
726.470	25.700	0.150000
731.470	25.800	0.150000
736.470	25.820	0.150000
741.470	25.800	0.150000
746.470	25.780	0.150000
751.470	25.750	0.150000
756.470	25.720	0.150000
761.470	25.700	0.150000
766.470	25.690	0.150000
771.470	25.680	0.150000
776.470	25.680	0.150000
781.470	25.680	0.150000
786.470	25.710	0.150000
791.470	25.750	0.150000
796.470	25.790	0.150000
801.470	25.840	0.150000
806.470	25.880	0.150000
811.470	25.920	0.150000
816.470	25.930	0.150000
821.470	25.910	0.150000
826.470	25.850	0.150000
831.470	25.770	0.150000
836.470	25.610	0.150000
841.470	25.520	0.150000
846.470	25.650	0.150000
851.470	25.730	0.150000
856.470	25.740	0.150000
861.470	25.700	0.150000
866.470	25.670	0.150000
871.470	25.640	0.150000
876.470	25.610	0.150000
881.470	25.580	0.150000
886.470	25.570	0.150000
891.470	25.440	0.150000
896.470	25.520	0.150000
901.470	25.800	0.150000
906.470	25.870	0.150000
911.470	25.740	0.150000
916.470	25.530	0.150000
921.470	25.410	0.150000
926.470	25.390	0.150000
931.470	25.330	0.150000
936.470	25.290	0.150000
941.470	25.250	0.150000
946.470	25.290	0.150000
951.470	25.360	0.150000
956.470	25.410	0.150000
961.470	25.430	0.150000
966.470	25.430	0.150000
971.470	25.420	0.150000
976.470	25.390	0.150000
983.790	25.270	0.150000
986.290	25.230	0.150000

\* All elevations are NAVD88.

991.290	25.220	0.150000
996.290	25.220	0.150000
1001.290	25.260	0.150000
1006.290	25.260	0.150000
1011.290	25.250	0.150000
1016.290	25.250	0.150000
1021.290	25.250	0.150000
1026.290	25.160	0.150000
1031.290	25.100	0.150000
1036.290	25.180	0.150000
1041.290	25.500	0.150000
1046.290	25.610	0.150000
1051.290	25.330	0.150000
1056.290	25.070	0.150000
1061.290	25.140	0.150000
1066.290	25.520	0.150000
1071.290	26.000	0.150000
1076.290	26.190	0.150000
1081.290	26.400	0.150000
1086.290	26.570	0.150000
1091.290	26.830	0.150000
1096.290	27.030	0.150000
1101.290	27.110	0.150000
1106.290	27.190	0.150000
1111.290	27.020	0.150000
1116.290	26.600	0.150000
1121.290	26.280	0.150000
1126.290	26.090	0.150000
1131.290	25.970	0.150000
1136.290	25.980	0.150000
1141.290	26.110	0.150000
1146.290	26.310	0.150000
1151.290	26.400	0.150000
1156.290	26.400	0.150000
1161.290	26.400	0.150000
1166.290	26.460	0.150000
1171.290	26.510	0.150000
1176.290	26.800	0.150000
1181.290	27.030	0.150000
1186.290	27.270	0.150000
1191.290	27.850	0.150000
1196.290	28.300	0.150000
1201.290	28.750	0.150000
1206.290	28.770	0.150000
1208.990	28.590	0.150000
1211.490	28.400	0.150000
1216.490	28.030	0.150000
1221.490	27.650	0.150000
1226.490	27.270	0.150000
1231.490	26.900	0.150000
1236.490	26.560	0.150000
1241.490	26.540	0.150000
1246.490	26.570	0.150000
1251.490	26.600	0.150000
1256.490	26.810	0.150000
1261.490	26.720	0.150000
1266.490	26.540	0.150000
1271.490	26.270	0.150000
1276.490	25.930	0.150000
1281.490	25.870	0.150000
1286.490	25.970	0.150000
1291.490	25.960	0.150000
1296.490	25.900	0.150000
1301.490	25.890	0.150000
1306.490	25.960	0.150000
1311.490	26.060	0.150000
1316.490	26.140	0.150000
1321.490	26.210	0.150000
1326.490	26.190	0.150000
1331.490	26.080	0.150000
1336.490	26.200	0.150000
1341.490	26.230	0.150000
1346.490	26.180	0.150000
1351.490	26.230	0.150000
1356.490	26.370	0.150000
1361.490	26.530	0.150000
1366.490	26.590	0.150000
1371.490	26.680	0.150000
1376.490	26.790	0.150000
1381.490	26.900	0.150000
1386.490	26.810	0.150000
1391.490	26.560	0.150000
1396.490	26.610	0.150000
1401.490	26.900	0.150000
1406.490	26.910	0.150000
1411.490	26.770	0.150000
1416.490	26.570	0.150000
1421.490	26.330	0.150000
1426.490	26.390	0.150000
1431.490	26.430	0.150000
1436.490	26.370	0.150000
1441.490	26.410	0.150000

\* All elevations are NAVD88.



127.500	24.630	0.150000
132.500	24.650	0.150000
137.500	24.650	0.150000
142.500	24.650	0.150000
147.500	24.670	0.150000
152.500	24.670	0.150000
157.500	24.670	0.150000
162.500	24.680	0.150000
167.500	24.690	0.150000
172.500	24.700	0.150000
177.500	24.710	0.150000
183.880	24.700	0.150000
186.380	24.690	0.150000
191.380	24.700	0.150000
196.380	24.710	0.150000
201.380	24.720	0.150000
206.380	24.720	0.150000
211.380	24.710	0.150000
216.380	24.630	0.150000
221.380	24.570	0.150000
226.380	24.560	0.150000
231.380	24.520	0.150000
236.380	24.510	0.150000
241.380	24.520	0.150000
246.380	24.510	0.150000
251.380	24.650	0.150000
256.380	24.750	0.150000
261.380	24.730	0.150000
266.380	24.730	0.150000
271.380	24.780	0.150000
276.380	24.880	0.150000
281.380	24.970	0.150000
286.380	25.140	0.150000
291.380	24.970	0.150000
296.380	24.780	0.150000
301.380	24.710	0.150000
306.380	24.650	0.150000
311.380	24.540	0.150000
316.380	24.440	0.150000
321.380	24.390	0.150000
326.380	24.350	0.150000
331.380	24.480	0.150000
336.380	24.540	0.150000
341.380	24.570	0.150000
346.380	24.420	0.150000
351.380	24.370	0.150000
356.380	24.440	0.150000
361.380	24.720	0.150000
366.380	24.830	0.150000
371.380	25.080	0.150000
376.380	24.950	0.150000
381.380	25.060	0.150000
386.380	25.210	0.150000
391.380	25.380	0.150000
396.380	25.370	0.150000
401.380	25.400	0.150000
406.380	25.470	0.150000
411.380	25.790	0.150000
416.380	26.130	0.150000
421.380	26.030	0.150000
426.380	25.910	0.150000
431.380	25.860	0.150000
436.640	25.860	0.150000

Name: W07B-06A                                  Group: BASE  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	27.330	0.150000
2.500	27.400	0.150000
7.500	27.460	0.150000
12.500	27.480	0.150000
17.500	27.760	0.150000
22.500	27.790	0.150000
27.500	27.890	0.150000
32.500	27.840	0.150000
37.500	27.790	0.150000
42.500	27.850	0.150000
47.500	27.930	0.150000
52.500	28.000	0.150000
55.090	28.030	0.150000
57.590	28.090	0.150000
62.590	28.250	0.150000
67.590	28.280	0.150000
72.590	28.120	0.150000
77.590	27.770	0.150000
82.590	27.350	0.150000
87.590	27.460	0.150000

\* All elevations are NAVD88.

92.590	27.570	0.150000
97.590	27.600	0.150000
102.590	27.240	0.150000
107.590	26.990	0.150000
112.590	27.750	0.150000
117.590	28.450	0.150000
122.590	28.920	0.150000
127.590	29.420	0.150000
132.590	29.680	0.150000
137.590	29.440	0.150000
142.590	28.460	0.150000
147.590	27.360	0.150000
152.590	26.690	0.150000
157.590	26.360	0.150000
162.590	26.100	0.150000
167.590	25.910	0.150000
172.590	26.150	0.150000
177.590	26.340	0.150000
182.590	26.460	0.150000
187.590	26.880	0.150000
192.590	26.930	0.150000
198.890	26.790	0.150000
201.390	26.890	0.150000
206.390	27.030	0.150000
211.390	26.790	0.150000
216.390	26.600	0.150000
221.390	26.380	0.150000
226.390	26.250	0.150000
231.390	26.160	0.150000
236.390	26.530	0.150000
241.390	27.260	0.150000
246.390	27.880	0.150000
251.390	28.140	0.150000
256.390	28.010	0.150000
261.390	27.750	0.150000
266.390	27.420	0.150000
271.390	27.050	0.150000
276.390	26.540	0.150000
281.390	26.120	0.150000
286.390	26.250	0.150000
291.390	26.560	0.150000
296.390	27.170	0.150000
301.390	27.780	0.150000
306.390	28.460	0.150000
311.390	29.130	0.150000
316.390	29.110	0.150000
321.390	28.420	0.150000
326.390	27.470	0.150000
331.390	26.630	0.150000
336.650	26.100	0.150000

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 Name: W07C-07D                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	29.740	0.150000
2.500	29.730	0.150000
7.500	29.650	0.150000
12.500	29.490	0.150000
17.500	29.250	0.150000
22.500	28.970	0.150000
27.500	28.590	0.150000
32.500	27.910	0.150000
37.500	27.000	0.150000
42.500	26.050	0.150000
47.500	25.150	0.150000
52.500	24.610	0.150000
57.500	24.740	0.150000
62.500	25.120	0.150000
67.500	25.500	0.150000
72.500	25.860	0.150000
77.500	26.050	0.150000
82.500	25.890	0.150000
87.500	25.430	0.150000
92.500	24.630	0.150000
97.500	23.910	0.150000
102.500	23.720	0.150000
107.500	23.490	0.150000
112.500	23.320	0.150000
117.500	23.280	0.150000
122.500	23.700	0.150000
129.090	24.780	0.150000

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 Name: W07C-SMF7                      Group: BASE  
 Encroachment: No

\* All elevations are NAVD88.



Station(ft)	Elevation(ft)	Manning's N
0.000	25.860	0.150000
1.050	25.860	0.150000
3.550	25.880	0.150000
8.550	25.920	0.150000
13.550	25.990	0.150000
18.550	26.020	0.150000
21.910	26.020	0.150000
24.410	26.000	0.150000
29.410	25.950	0.150000
34.410	25.880	0.150000
39.410	25.900	0.150000
44.410	25.950	0.150000
49.410	26.020	0.150000
54.410	26.060	0.150000
59.410	26.160	0.150000
64.410	26.250	0.150000
69.410	26.230	0.150000
74.410	25.850	0.150000
79.410	25.370	0.150000
84.410	25.430	0.150000
89.410	25.750	0.150000
94.410	26.080	0.150000
99.410	26.290	0.150000
104.410	26.250	0.150000
109.410	26.270	0.150000
114.410	26.260	0.150000
119.410	26.070	0.150000
124.410	25.800	0.150000
129.410	25.750	0.150000
134.410	25.730	0.150000
139.410	25.630	0.150000
144.410	25.660	0.150000
149.410	25.680	0.150000
154.410	25.710	0.150000
159.410	25.760	0.150000
164.410	25.660	0.150000
169.410	25.560	0.150000
174.410	25.500	0.150000
179.410	25.460	0.150000
184.410	25.430	0.150000
189.410	25.570	0.150000
194.410	25.510	0.150000
199.410	25.370	0.150000
204.410	25.190	0.150000
209.410	25.080	0.150000
214.410	24.820	0.150000
220.200	24.920	0.150000
222.700	25.030	0.150000
227.700	25.110	0.150000
232.700	25.150	0.150000
237.700	25.250	0.150000
242.700	25.270	0.150000
247.700	25.120	0.150000
252.700	24.890	0.150000
257.700	24.770	0.150000
262.700	24.710	0.150000
267.700	24.680	0.150000
272.700	24.650	0.150000
277.700	24.660	0.150000
282.700	24.590	0.150000
287.700	24.410	0.150000
292.700	24.270	0.150000
297.700	24.090	0.150000
302.700	23.960	0.150000
307.700	24.040	0.150000
312.700	24.050	0.150000
317.700	24.040	0.150000
322.700	24.200	0.150000
327.700	24.170	0.150000
332.700	24.110	0.150000
337.700	24.120	0.150000
342.700	24.240	0.150000
347.700	24.330	0.150000
352.700	24.390	0.150000
357.700	24.430	0.150000
362.700	24.460	0.150000
367.700	24.490	0.150000
372.700	24.520	0.150000
377.700	24.570	0.150000
382.700	24.610	0.150000
387.700	24.640	0.150000
390.910	24.640	0.150000
393.410	24.630	0.150000
398.410	24.570	0.150000
403.410	24.400	0.150000
408.410	24.360	0.150000
413.410	24.430	0.150000
418.410	24.420	0.150000
423.410	24.400	0.150000

\* All elevations are NAVD88.

428.410	24.350	0.150000
433.410	24.310	0.150000
438.410	24.310	0.150000
443.410	24.340	0.150000
448.410	24.210	0.150000
453.410	24.040	0.150000
458.410	23.880	0.150000
463.410	24.000	0.150000
468.410	24.200	0.150000
473.410	24.270	0.150000
478.410	24.650	0.150000
483.410	24.790	0.150000
488.410	25.090	0.150000
493.410	25.050	0.150000
498.410	25.240	0.150000
503.410	25.280	0.150000
508.410	25.090	0.150000
513.410	24.960	0.150000
518.410	24.940	0.150000
523.410	24.920	0.150000
528.410	24.820	0.150000
533.410	24.710	0.150000
538.410	24.600	0.150000
543.410	24.500	0.150000
548.410	24.520	0.150000
553.410	24.490	0.150000
558.410	24.390	0.150000
563.410	24.470	0.150000
568.410	24.350	0.150000
573.410	24.250	0.150000
578.410	24.320	0.150000
583.410	24.520	0.150000
588.410	24.330	0.150000
593.410	24.260	0.150000
598.410	24.140	0.150000
603.410	24.090	0.150000
608.410	24.050	0.150000
613.410	24.010	0.150000
616.180	23.990	0.150000
618.680	23.980	0.150000
623.680	23.980	0.150000
628.680	24.050	0.150000
633.680	24.110	0.150000
638.680	23.940	0.150000
643.680	23.610	0.150000
648.680	23.540	0.150000
653.680	23.880	0.150000
658.680	23.710	0.150000
663.680	23.580	0.150000
668.680	23.740	0.150000
673.680	23.790	0.150000
678.680	23.760	0.150000
683.680	23.790	0.150000
688.680	23.780	0.150000
693.680	23.810	0.150000
698.680	24.070	0.150000
703.680	24.100	0.150000
708.680	24.130	0.150000
713.680	24.450	0.150000
718.680	24.540	0.150000
723.680	24.610	0.150000
728.680	24.510	0.150000
733.680	24.230	0.150000
738.680	24.370	0.150000
743.680	24.410	0.150000
748.680	24.460	0.150000
753.680	24.560	0.150000
758.680	24.700	0.150000
763.680	24.800	0.150000
768.680	24.840	0.150000
773.680	24.620	0.150000
778.680	24.570	0.150000
783.680	24.490	0.150000
788.680	24.370	0.150000
793.680	24.510	0.150000
798.680	24.610	0.150000
803.680	24.800	0.150000
808.680	24.930	0.150000
813.680	24.900	0.150000
818.680	24.720	0.150000
826.140	24.450	0.150000
828.640	24.330	0.150000
833.640	24.120	0.150000
838.640	23.970	0.150000
843.640	23.870	0.150000
848.640	23.780	0.150000
853.640	23.630	0.150000
858.640	23.690	0.150000
863.640	23.810	0.150000
868.640	23.920	0.150000
873.640	24.000	0.150000
878.640	24.140	0.150000

\* All elevations are NAVD88.



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57.500	24.970	0.150000
62.500	24.920	0.150000
67.500	24.860	0.150000
72.500	24.830	0.150000
77.500	24.690	0.150000
82.500	24.510	0.150000
87.500	24.280	0.150000
92.500	24.050	0.150000
97.500	24.080	0.150000
102.500	24.020	0.150000
107.500	23.930	0.150000
112.500	24.060	0.150000
117.500	24.270	0.150000
122.500	24.100	0.150000
127.500	23.760	0.150000
132.500	23.760	0.150000
137.500	23.810	0.150000
140.700	23.790	0.150000
143.200	23.820	0.150000
148.200	23.970	0.150000
153.200	23.950	0.150000
158.200	23.620	0.150000
163.200	23.630	0.150000
168.200	23.730	0.150000
173.200	23.950	0.150000
178.200	23.950	0.150000
183.200	23.660	0.150000
188.200	23.750	0.150000
193.200	23.980	0.150000
198.200	24.140	0.150000
203.200	24.240	0.150000
208.200	24.320	0.150000
213.200	24.400	0.150000
218.200	24.490	0.150000
223.200	24.530	0.150000
228.200	24.560	0.150000
233.200	24.580	0.150000
238.200	24.610	0.150000
243.200	24.640	0.150000
248.200	24.670	0.150000
253.200	24.700	0.150000
258.200	24.740	0.150000
263.200	24.780	0.150000
268.200	24.800	0.150000
273.200	24.830	0.150000
278.200	24.850	0.150000
283.200	24.850	0.150000
288.200	24.820	0.150000
293.200	24.780	0.150000
298.200	24.750	0.150000
303.200	24.690	0.150000
308.200	24.600	0.150000
313.200	24.500	0.150000
318.200	24.390	0.150000
323.200	24.330	0.150000
328.200	24.290	0.150000
333.200	24.240	0.150000
338.200	24.200	0.150000
343.200	24.160	0.150000
348.200	24.140	0.150000
353.200	24.120	0.150000
358.200	24.050	0.150000
363.200	23.990	0.150000
368.200	23.970	0.150000
373.200	23.880	0.150000
378.200	23.840	0.150000
383.200	23.850	0.150000
388.200	23.840	0.150000
393.200	23.820	0.150000
398.200	23.810	0.150000
403.200	23.800	0.150000
408.200	23.790	0.150000
413.200	23.790	0.150000
418.200	23.760	0.150000
423.200	23.690	0.150000
428.200	23.530	0.150000
433.200	23.580	0.150000
438.200	23.650	0.150000
443.200	23.810	0.150000
448.200	23.900	0.150000
453.200	24.040	0.150000
458.200	24.090	0.150000
463.200	24.030	0.150000
468.200	24.000	0.150000
473.200	23.990	0.150000
476.240	24.000	0.150000
478.740	24.000	0.150000
483.740	24.020	0.150000
488.740	24.130	0.150000
493.740	24.160	0.150000
498.740	24.130	0.150000
503.740	24.180	0.150000

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\* All elevations are NAVD88.

508.740	24.200	0.150000
513.740	24.200	0.150000
518.740	24.190	0.150000
523.740	24.180	0.150000
528.740	24.140	0.150000
533.740	24.100	0.150000
538.740	24.010	0.150000
543.740	24.070	0.150000
548.740	24.150	0.150000
553.740	24.260	0.150000
558.740	24.300	0.150000
563.740	24.560	0.150000
568.740	24.740	0.150000
573.740	24.830	0.150000
578.740	24.910	0.150000
583.740	24.970	0.150000
588.740	24.920	0.150000
593.740	24.860	0.150000
598.740	24.920	0.150000
603.740	25.270	0.150000
608.740	25.770	0.150000
613.740	26.060	0.150000
618.740	26.100	0.150000
623.740	26.070	0.150000
628.740	25.920	0.150000
633.740	25.690	0.150000
638.740	25.430	0.150000
643.740	25.100	0.150000
648.740	24.800	0.150000
653.740	24.710	0.150000
658.740	24.630	0.150000
663.740	24.560	0.150000
668.740	24.480	0.150000
673.740	24.440	0.150000
678.740	24.390	0.150000
683.740	24.370	0.150000
688.740	24.360	0.150000
693.740	24.350	0.150000
698.740	24.330	0.150000
703.740	24.330	0.150000
706.640	24.340	0.150000
709.140	24.360	0.150000
714.140	24.400	0.150000
719.140	24.460	0.150000
724.140	24.530	0.150000
729.140	24.620	0.150000
734.140	24.710	0.150000
739.140	24.830	0.150000
744.140	25.120	0.150000
749.140	25.100	0.150000
754.140	25.150	0.150000
759.140	25.310	0.150000
764.140	25.410	0.150000
769.140	25.250	0.150000
774.140	25.050	0.150000
779.140	24.890	0.150000
784.140	24.740	0.150000
789.140	24.580	0.150000
794.140	24.360	0.150000
799.140	24.240	0.150000
804.140	24.190	0.150000
809.140	24.160	0.150000
814.140	24.120	0.150000
819.140	24.100	0.150000
824.140	24.100	0.150000
829.140	24.130	0.150000
834.140	24.150	0.150000
839.140	24.170	0.150000
844.140	24.180	0.150000
849.140	24.130	0.150000
854.140	24.030	0.150000
859.140	23.920	0.150000
864.140	23.840	0.150000
869.140	23.780	0.150000
874.140	23.760	0.150000
879.140	23.800	0.150000
884.140	23.800	0.150000
889.140	23.750	0.150000
894.140	23.810	0.150000
899.140	23.800	0.150000
903.280	23.860	0.150000
905.780	23.900	0.150000
910.780	23.980	0.150000
915.780	24.060	0.150000
920.780	24.080	0.150000
925.780	24.120	0.150000
930.780	24.140	0.150000
935.780	24.170	0.150000
940.780	24.190	0.150000
945.780	24.220	0.150000
950.780	24.230	0.150000
955.780	24.240	0.150000

\* All elevations are NAVD88.

960.780	24.230	0.150000
965.780	24.210	0.150000
970.780	24.140	0.150000
975.780	24.040	0.150000
980.780	23.910	0.150000
985.780	23.830	0.150000
990.780	23.780	0.150000
995.780	23.890	0.150000
1000.780	24.030	0.150000
1005.780	24.050	0.150000
1010.780	24.040	0.150000
1015.780	24.030	0.150000
1020.780	24.020	0.150000
1025.780	24.030	0.150000
1030.780	24.050	0.150000
1035.780	24.070	0.150000
1040.780	24.090	0.150000
1045.780	24.100	0.150000
1050.780	24.090	0.150000
1055.780	24.080	0.150000
1060.780	24.080	0.150000
1065.780	24.100	0.150000
1070.780	24.140	0.150000
1075.780	24.170	0.150000
1080.780	24.200	0.150000
1085.780	24.240	0.150000
1090.040	24.250	0.150000
1092.540	24.240	0.150000
1097.540	24.210	0.150000
1102.540	24.190	0.150000
1107.540	24.190	0.150000
1112.540	24.190	0.150000
1117.540	24.180	0.150000
1122.540	24.150	0.150000
1127.540	24.130	0.150000
1132.540	24.110	0.150000
1137.540	24.110	0.150000
1142.540	24.110	0.150000
1147.540	24.110	0.150000
1152.540	24.100	0.150000
1157.540	24.060	0.150000
1162.540	24.040	0.150000
1167.540	24.060	0.150000
1172.540	24.100	0.150000
1177.540	24.150	0.150000
1182.540	24.190	0.150000
1187.540	24.240	0.150000
1192.540	24.300	0.150000
1197.540	24.340	0.150000
1202.540	24.340	0.150000
1207.540	24.300	0.150000
1212.540	24.130	0.150000
1217.540	24.060	0.150000
1222.540	24.100	0.150000
1227.540	24.170	0.150000
1232.540	24.250	0.150000
1237.540	24.280	0.150000
1242.540	24.330	0.150000
1247.540	24.270	0.150000
1254.110	24.370	0.150000
1256.610	24.410	0.150000
1261.610	24.350	0.150000
1266.610	24.030	0.150000
1271.610	24.120	0.150000
1276.610	24.120	0.150000
1281.610	24.120	0.150000
1286.610	24.120	0.150000
1291.610	24.120	0.150000
1296.610	24.060	0.150000
1301.610	24.060	0.150000
1306.610	24.190	0.150000
1311.610	24.340	0.150000
1316.610	24.370	0.150000
1321.610	24.460	0.150000
1326.610	24.610	0.150000
1331.610	24.640	0.150000
1336.610	24.570	0.150000
1341.610	24.510	0.150000
1346.610	24.510	0.150000
1351.610	24.660	0.150000
1356.610	24.670	0.150000
1361.610	25.000	0.150000
1366.610	24.730	0.150000
1371.610	24.480	0.150000
1376.610	24.510	0.150000
1381.610	24.640	0.150000
1386.610	24.680	0.150000
1391.610	24.440	0.150000
1396.610	24.450	0.150000
1401.610	24.410	0.150000
1406.610	24.390	0.150000
1411.610	24.490	0.150000

\* All elevations are NAVD88.

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1416.610	24.370	0.150000
1421.610	24.120	0.150000
1426.610	24.340	0.150000
1431.610	24.660	0.150000
1434.290	24.590	0.150000
1436.790	24.540	0.150000
1441.790	24.330	0.150000
1446.790	24.400	0.150000
1451.790	24.510	0.150000
1456.790	24.400	0.150000
1461.790	24.330	0.150000
1466.790	24.440	0.150000
1471.790	24.390	0.150000
1476.790	24.530	0.150000
1481.790	24.710	0.150000
1486.790	24.570	0.150000
1491.790	24.720	0.150000
1496.790	24.870	0.150000
1501.790	24.780	0.150000
1506.790	24.600	0.150000
1511.790	24.690	0.150000
1516.790	24.700	0.150000
1521.790	24.730	0.150000
1526.790	24.690	0.150000
1531.790	24.670	0.150000
1536.790	24.900	0.150000
1541.790	24.860	0.150000
1546.790	24.720	0.150000
1551.790	25.090	0.150000
1556.790	25.570	0.150000
1561.790	26.030	0.150000
1566.790	25.830	0.150000
1571.790	25.540	0.150000
1576.790	25.430	0.150000
1580.890	25.440	0.150000
1583.390	25.410	0.150000
1588.390	25.260	0.150000
1593.390	25.100	0.150000
1598.390	25.030	0.150000
1603.390	25.010	0.150000
1608.390	25.090	0.150000
1613.390	25.420	0.150000
1618.390	25.900	0.150000
1623.390	26.030	0.150000
1628.390	25.730	0.150000
1633.390	25.610	0.150000
1638.390	25.450	0.150000
1643.390	25.660	0.150000
1648.390	25.880	0.150000
1653.390	25.820	0.150000
1658.390	25.550	0.150000
1663.390	25.430	0.150000
1668.390	25.640	0.150000
1673.390	25.560	0.150000
1678.390	25.350	0.150000
1683.390	25.400	0.150000
1688.390	25.510	0.150000
1693.390	25.440	0.150000
1698.390	25.570	0.150000
1703.390	25.790	0.150000
1708.390	25.850	0.150000
1711.780	25.890	0.150000
1712.620	25.890	0.150000

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Name: W07E-SMF5wet                                  Group: BASE  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	25.310	0.150000
2.500	25.200	0.150000
7.500	25.000	0.150000
12.500	24.940	0.150000
17.500	25.040	0.150000
22.500	25.160	0.150000
27.500	25.270	0.150000
32.500	25.340	0.150000
37.500	25.470	0.150000
42.500	26.080	0.150000
47.500	26.690	0.150000
52.500	27.210	0.150000
56.290	27.590	0.150000
58.790	27.930	0.150000
63.790	28.370	0.150000
68.790	27.990	0.150000
73.790	27.680	0.150000
78.790	27.620	0.150000
83.790	27.550	0.150000
88.790	27.650	0.150000

\* All elevations are NAVD88.

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93.790	27.440	0.150000
98.790	27.730	0.150000
103.790	28.120	0.150000
108.790	28.530	0.150000
113.790	28.890	0.150000
118.790	29.040	0.150000
123.790	29.440	0.150000
128.790	30.050	0.150000
133.400	30.210	0.150000
135.900	30.050	0.150000
140.900	29.300	0.150000
145.900	28.490	0.150000
150.900	28.060	0.150000
155.900	27.580	0.150000
160.900	27.090	0.150000
165.900	26.610	0.150000
170.900	26.180	0.150000
175.900	25.890	0.150000
180.900	25.790	0.150000
185.900	25.680	0.150000
190.900	25.560	0.150000
195.900	25.420	0.150000
200.900	25.310	0.150000
205.900	25.220	0.150000
210.900	25.180	0.150000
215.900	25.210	0.150000
220.900	25.250	0.150000
225.900	25.080	0.150000
230.900	24.690	0.150000
235.900	24.640	0.150000
240.900	24.780	0.150000
245.900	24.950	0.150000
250.900	25.070	0.150000
255.900	25.120	0.150000
260.900	25.120	0.150000
265.900	25.100	0.150000
270.900	25.100	0.150000
275.900	25.160	0.150000
280.900	25.300	0.150000
286.990	25.190	0.150000
289.490	25.090	0.150000
294.490	25.020	0.150000
299.490	24.930	0.150000
304.490	24.920	0.150000
309.490	24.980	0.150000
314.490	25.120	0.150000
319.490	25.300	0.150000
324.490	25.500	0.150000
329.490	25.670	0.150000
334.490	26.280	0.150000
339.490	27.190	0.150000
345.090	27.790	0.150000
347.590	27.690	0.150000
352.590	27.590	0.150000
357.590	27.420	0.150000
362.590	27.080	0.150000
367.590	26.780	0.150000
372.590	26.380	0.150000
377.590	25.910	0.150000
382.590	25.450	0.150000
387.590	24.960	0.150000
392.590	24.750	0.150000
397.590	24.750	0.150000
402.590	24.770	0.150000
407.590	24.970	0.150000
412.590	25.330	0.150000
415.250	25.540	0.150000
417.750	25.810	0.150000
422.750	26.040	0.150000
427.750	25.950	0.150000
432.750	25.770	0.150000
437.750	25.680	0.150000
442.750	25.540	0.150000
447.750	25.440	0.150000
452.750	25.430	0.150000
457.750	25.380	0.150000
462.750	25.300	0.150000
467.750	25.380	0.150000
472.750	25.520	0.150000
477.750	25.610	0.150000
482.750	25.500	0.150000
487.750	25.300	0.150000
492.750	25.270	0.150000
497.750	25.250	0.150000
502.750	25.280	0.150000
507.750	25.340	0.150000
512.750	25.380	0.150000
517.750	25.350	0.150000
522.750	25.180	0.150000
527.750	24.960	0.150000
533.010	24.840	0.150000
535.510	24.800	0.150000

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\* All elevations are NAVD88.



540.510	24.930	0.150000
545.510	25.100	0.150000
550.510	25.210	0.150000
555.510	25.330	0.150000
560.510	25.770	0.150000
565.510	26.090	0.150000
570.510	26.140	0.150000
575.510	26.140	0.150000
580.510	26.130	0.150000
585.510	26.130	0.150000
590.510	26.120	0.150000
595.510	26.060	0.150000
600.510	25.960	0.150000
605.510	25.930	0.150000
610.510	25.950	0.150000
615.510	25.980	0.150000
620.350	26.090	0.150000
622.850	26.120	0.150000
627.850	26.090	0.150000
632.850	26.070	0.150000
637.850	26.090	0.150000
642.850	26.080	0.150000
647.850	26.040	0.150000
652.850	26.000	0.150000
657.850	25.990	0.150000
662.850	26.140	0.150000
667.850	26.320	0.150000
672.850	26.340	0.150000
677.850	26.200	0.150000
682.850	25.970	0.150000
687.490	25.910	0.150000
689.990	25.820	0.150000
694.990	25.690	0.150000
699.990	25.620	0.150000
704.990	25.510	0.150000
709.990	25.340	0.150000
714.990	25.090	0.150000
719.990	24.850	0.150000
724.990	24.650	0.150000
729.990	24.780	0.150000
734.990	25.000	0.150000
739.990	25.290	0.150000
744.990	25.380	0.150000
749.990	25.570	0.150000
754.990	25.940	0.150000
759.990	26.190	0.150000
764.990	26.140	0.150000
769.990	25.970	0.150000
774.990	26.020	0.150000
782.450	26.030	0.150000
784.950	26.010	0.150000
789.950	25.970	0.150000
794.950	25.930	0.150000
799.950	25.910	0.150000
804.950	25.910	0.150000
809.950	26.060	0.150000
814.950	26.740	0.150000
819.950	27.330	0.150000
824.950	27.340	0.150000
829.950	26.560	0.150000
834.950	25.020	0.150000
839.950	24.680	0.150000
844.950	24.640	0.150000
849.950	24.580	0.150000
854.950	24.590	0.150000
859.950	24.660	0.150000
864.950	24.550	0.150000
869.950	24.430	0.150000
874.950	24.380	0.150000
879.950	24.480	0.150000
884.950	24.740	0.150000
889.530	24.920	0.150000
892.030	24.900	0.150000
897.030	24.840	0.150000
902.030	24.730	0.150000
907.030	24.720	0.150000
912.030	24.670	0.150000
917.030	24.580	0.150000
922.030	24.530	0.150000
927.030	24.520	0.150000
932.030	24.520	0.150000
937.030	24.550	0.150000
942.030	24.520	0.150000
947.030	24.580	0.150000
952.030	24.660	0.150000
957.030	24.740	0.150000
962.030	25.220	0.150000
967.030	25.630	0.150000
972.030	26.050	0.150000
977.030	26.340	0.150000
982.030	26.300	0.150000
987.030	26.200	0.150000

\* All elevations are NAVD88.

992.030	26.110	0.150000
997.030	25.960	0.150000
1002.030	26.160	0.150000
1007.030	26.880	0.150000
1012.030	27.610	0.150000
1017.030	27.840	0.150000
1022.030	27.510	0.150000
1027.030	26.950	0.150000
1032.030	26.300	0.150000
1037.030	25.870	0.150000
1042.030	25.940	0.150000
1047.030	25.970	0.150000
1052.030	26.200	0.150000
1057.030	26.490	0.150000

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 Name: W08A-SMF5wet                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	26.700	0.150000
4.460	26.440	0.150000
8.930	26.660	0.150000
13.390	26.990	0.150000
17.850	27.060	0.150000
22.320	27.070	0.150000
26.780	27.310	0.150000
31.720	27.670	0.150000
36.650	27.970	0.150000
41.590	28.010	0.150000
46.530	27.860	0.150000
51.460	27.550	0.150000
56.400	27.000	0.150000
61.340	26.790	0.150000
66.270	26.880	0.150000
71.210	27.280	0.150000
76.150	28.190	0.150000
81.080	28.870	0.150000
86.020	28.680	0.150000
90.960	28.170	0.150000
95.890	27.440	0.150000
100.830	26.430	0.150000
105.780	25.910	0.150000
110.740	25.390	0.150000
115.700	25.190	0.150000
120.650	25.310	0.150000
125.610	25.400	0.150000
130.560	25.550	0.150000
135.520	25.650	0.150000
140.470	25.400	0.150000
145.430	25.150	0.150000
150.390	24.890	0.150000
155.340	24.640	0.150000
160.300	24.530	0.150000
165.250	24.530	0.150000
170.210	24.520	0.150000
175.160	24.550	0.150000
180.120	24.620	0.150000
185.070	24.640	0.150000
190.030	24.460	0.150000
194.650	24.110	0.150000
199.270	23.970	0.150000
203.890	24.080	0.150000
208.510	24.090	0.150000
213.130	24.270	0.150000
217.750	24.440	0.150000
222.370	24.650	0.150000
226.990	24.700	0.150000
231.610	24.630	0.150000
236.230	24.540	0.150000
240.850	24.740	0.150000
245.470	24.830	0.150000
250.090	24.850	0.150000
254.850	24.820	0.150000
259.610	24.820	0.150000
264.370	25.080	0.150000
269.130	25.040	0.150000
273.890	24.910	0.150000
278.650	24.760	0.150000
283.410	24.460	0.150000
288.170	24.050	0.150000
292.930	24.060	0.150000
297.690	24.220	0.150000
302.450	24.480	0.150000
306.990	24.700	0.150000
311.520	24.930	0.150000
316.060	25.150	0.150000
320.600	25.370	0.150000
325.140	25.600	0.150000

\* All elevations are NAVD88.

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329.680	25.980	0.150000
334.210	26.320	0.150000
338.750	26.400	0.150000
343.290	26.550	0.150000
347.830	26.540	0.150000
352.690	26.010	0.150000
357.550	25.700	0.150000
362.410	25.670	0.150000
367.280	25.790	0.150000
372.140	25.960	0.150000
377.000	26.440	0.150000
381.860	26.630	0.150000
386.720	26.210	0.150000
391.590	25.900	0.150000
396.450	25.910	0.150000
401.380	26.100	0.150000
406.320	26.370	0.150000
411.260	26.560	0.150000
416.190	26.600	0.150000
421.130	26.580	0.150000
425.850	26.440	0.150000
430.570	26.610	0.150000
435.290	26.590	0.150000
440.010	26.130	0.150000
444.730	25.850	0.150000
449.450	25.820	0.150000
454.170	25.690	0.150000
458.890	25.640	0.150000
463.570	25.630	0.150000
468.260	25.580	0.150000
472.950	25.330	0.150000
477.630	25.240	0.150000
482.320	25.310	0.150000
487.000	25.450	0.150000
491.690	25.580	0.150000
496.370	25.570	0.150000
501.060	25.570	0.150000
505.740	25.490	0.150000
510.430	26.030	0.150000
515.390	26.750	0.150000
520.340	26.860	0.150000
525.300	26.630	0.150000
530.260	26.470	0.150000
535.210	26.430	0.150000
540.170	26.430	0.150000
545.130	26.350	0.150000
550.090	26.170	0.150000
555.040	26.030	0.150000
560.000	26.140	0.150000
564.960	26.280	0.150000
569.820	26.370	0.150000
574.680	26.440	0.150000
579.540	26.610	0.150000
584.400	26.360	0.150000
589.260	25.860	0.150000
594.120	25.620	0.150000
598.980	25.800	0.150000
603.840	26.010	0.150000
608.700	26.150	0.150000
613.220	26.350	0.150000
617.740	26.790	0.150000
622.260	27.220	0.150000
626.790	27.500	0.150000
631.310	27.680	0.150000
635.830	27.650	0.150000
640.360	27.520	0.150000
644.880	27.320	0.150000
649.400	27.110	0.150000
653.900	26.960	0.150000
658.390	26.840	0.150000
662.880	26.790	0.150000
667.370	26.870	0.150000
671.870	26.960	0.150000
676.360	27.230	0.150000
680.850	27.550	0.150000
685.340	27.950	0.150000
690.140	27.920	0.150000
694.930	27.740	0.150000

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Name: W08B-SMF5                                  Group: BASE  
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	25.890	0.150000
4.990	25.930	0.150000
9.970	25.940	0.150000
14.960	26.000	0.150000
19.940	26.060	0.150000

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\* All elevations are NAVD88.

24.930	26.030	0.150000
29.910	26.170	0.150000
34.900	25.960	0.150000
39.880	25.490	0.150000
44.870	24.930	0.150000
49.850	24.620	0.150000
54.840	24.630	0.150000
59.820	24.960	0.150000
64.810	25.350	0.150000
69.790	25.500	0.150000
74.780	25.260	0.150000
79.760	24.970	0.150000
84.750	24.740	0.150000
89.730	24.310	0.150000
94.720	24.150	0.150000
99.700	24.120	0.150000
104.690	24.030	0.150000
109.670	24.120	0.150000
114.660	24.240	0.150000
119.580	24.170	0.150000
124.490	24.030	0.150000
129.410	24.080	0.150000
134.330	24.080	0.150000
139.250	24.000	0.150000
144.160	23.860	0.150000
149.080	23.800	0.150000
154.000	23.850	0.150000
158.920	23.900	0.150000
163.830	23.860	0.150000
168.750	23.740	0.150000
173.670	24.050	0.150000
178.590	24.330	0.150000
183.500	24.490	0.150000
188.420	24.580	0.150000
193.340	24.740	0.150000
198.260	24.970	0.150000
203.170	25.030	0.150000
208.090	24.890	0.150000
213.010	24.560	0.150000
217.930	24.260	0.150000
222.840	23.970	0.150000
227.760	23.710	0.150000
232.680	23.580	0.150000
237.600	23.550	0.150000
242.510	23.500	0.150000
247.430	23.460	0.150000
252.350	23.430	0.150000
257.250	23.440	0.150000
262.150	23.440	0.150000
267.050	23.410	0.150000
271.950	23.400	0.150000
276.840	23.420	0.150000
281.740	23.440	0.150000
286.640	23.440	0.150000
291.540	23.510	0.150000
296.440	23.710	0.150000
301.340	23.660	0.150000
306.240	23.750	0.150000
311.140	23.790	0.150000
316.040	23.710	0.150000
320.930	23.590	0.150000
325.830	23.500	0.150000
330.730	23.400	0.150000
335.630	23.400	0.150000
340.530	23.420	0.150000
345.430	23.450	0.150000
350.330	23.510	0.150000
355.190	23.560	0.150000
360.050	23.590	0.150000
364.910	23.620	0.150000
369.780	23.650	0.150000
374.640	23.660	0.150000
379.500	23.670	0.150000
384.360	23.660	0.150000
389.220	23.650	0.150000
394.090	23.650	0.150000
398.950	23.650	0.150000
403.810	23.650	0.150000
408.670	23.660	0.150000
413.540	23.660	0.150000
418.400	23.650	0.150000
423.260	23.640	0.150000
428.120	23.630	0.150000
432.980	23.630	0.150000
437.850	23.630	0.150000
442.710	23.630	0.150000
447.570	23.630	0.150000
452.430	23.620	0.150000
457.290	23.620	0.150000
462.160	23.610	0.150000
467.080	23.610	0.150000
472.010	23.600	0.150000

\* All elevations are NAVD88.

476.940	23.600	0.150000
481.870	23.590	0.150000
486.800	23.580	0.150000
491.730	23.580	0.150000
496.660	23.580	0.150000
501.580	23.580	0.150000
506.510	23.570	0.150000
511.440	23.550	0.150000
516.370	23.520	0.150000
521.300	23.500	0.150000
526.230	23.470	0.150000
531.150	23.450	0.150000
536.080	23.440	0.150000
541.010	23.440	0.150000
545.940	23.420	0.150000
550.870	23.390	0.150000
555.800	23.350	0.150000
560.730	23.330	0.150000
565.650	23.330	0.150000
570.580	23.330	0.150000
575.510	23.360	0.150000
580.440	23.420	0.150000
585.370	23.460	0.150000
590.300	23.490	0.150000
595.230	23.510	0.150000
600.150	23.490	0.150000
605.080	23.480	0.150000
610.010	23.460	0.150000
614.940	23.450	0.150000
619.870	23.440	0.150000
624.800	23.440	0.150000
629.720	23.440	0.150000
634.620	23.430	0.150000
639.510	23.420	0.150000
644.410	23.420	0.150000
649.300	23.440	0.150000
654.190	23.460	0.150000
659.090	23.510	0.150000
663.980	23.610	0.150000
668.870	23.660	0.150000
673.770	23.630	0.150000
678.660	23.570	0.150000
683.560	23.510	0.150000
688.450	23.470	0.150000
693.340	23.450	0.150000
698.240	23.450	0.150000
703.130	23.480	0.150000
708.020	23.540	0.150000
712.920	23.620	0.150000
717.810	23.670	0.150000
722.700	23.690	0.150000
727.600	23.690	0.150000
732.490	23.670	0.150000
737.390	23.640	0.150000
742.280	23.600	0.150000
747.130	23.530	0.150000
751.980	23.470	0.150000
756.840	23.470	0.150000
761.690	23.510	0.150000
766.540	23.560	0.150000
771.390	23.650	0.150000
776.240	23.740	0.150000
781.100	23.810	0.150000
785.950	23.940	0.150000
790.800	24.100	0.150000
795.650	24.360	0.150000
800.500	24.870	0.150000
805.360	25.220	0.150000
810.210	25.500	0.150000
815.060	25.620	0.150000
819.910	25.730	0.150000
824.690	26.070	0.150000
829.470	25.900	0.150000
834.250	25.480	0.150000
839.030	24.840	0.150000
843.810	24.550	0.150000
848.590	24.280	0.150000
853.370	24.160	0.150000
858.150	24.550	0.150000
862.930	25.000	0.150000
867.710	25.340	0.150000
872.490	25.710	0.150000
877.270	25.790	0.150000
882.050	25.870	0.150000
886.830	26.150	0.150000
891.610	26.730	0.150000
896.390	27.050	0.150000
901.160	27.360	0.150000
905.940	27.640	0.150000
910.720	27.830	0.150000
915.500	28.160	0.150000
920.280	28.350	0.150000

\* All elevations are NAVD88.

925.130	27.930	0.150000
929.980	27.140	0.150000
934.820	25.340	0.150000
939.670	24.380	0.150000
944.520	23.850	0.150000
949.360	23.410	0.150000
954.210	23.520	0.150000
959.060	24.220	0.150000
963.900	24.710	0.150000
968.750	25.110	0.150000
973.600	25.380	0.150000
978.440	26.020	0.150000
983.290	26.540	0.150000
988.140	27.020	0.150000
992.990	27.460	0.150000
997.830	27.850	0.150000
998.340	27.880	0.150000

Name: W09A-SMF5wet      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	27.740	0.150000
2.500	27.640	0.150000
7.500	27.040	0.150000
12.500	26.790	0.150000
17.500	26.490	0.150000
22.500	26.030	0.150000
27.500	25.780	0.150000
34.150	25.950	0.150000
36.650	26.090	0.150000
41.650	26.340	0.150000
46.650	26.580	0.150000
51.650	26.730	0.150000
56.650	26.890	0.150000
61.650	26.610	0.150000
66.650	26.400	0.150000
71.650	26.440	0.150000
76.650	26.620	0.150000
81.650	26.540	0.150000
88.680	24.840	0.150000
91.180	25.070	0.150000
96.180	25.670	0.150000
101.180	26.210	0.150000
106.180	26.390	0.150000
111.180	26.190	0.150000
116.180	25.650	0.150000
121.180	24.950	0.150000
126.180	24.810	0.150000
131.180	24.860	0.150000
136.180	24.920	0.150000
143.210	25.180	0.150000
145.710	25.340	0.150000
150.710	25.320	0.150000
155.710	25.380	0.150000
160.710	25.570	0.150000
165.710	25.760	0.150000
170.710	26.050	0.150000
175.710	26.280	0.150000
180.710	26.310	0.150000
185.710	26.030	0.150000
190.710	25.930	0.150000
195.710	26.190	0.150000
200.710	26.660	0.150000
204.270	26.960	0.150000
206.770	27.090	0.150000
211.770	27.350	0.150000
216.770	27.340	0.150000
221.770	27.180	0.150000
227.680	27.050	0.150000
230.180	26.950	0.150000
235.180	26.890	0.150000
240.180	26.960	0.150000
245.180	27.070	0.150000
250.180	27.160	0.150000
255.180	27.150	0.150000
260.180	27.140	0.150000
265.180	27.120	0.150000
270.180	27.140	0.150000
273.060	27.140	0.150000
275.560	27.090	0.150000
280.560	26.940	0.150000
285.560	26.830	0.150000
290.560	26.700	0.150000
295.560	26.430	0.150000
300.560	26.250	0.150000
307.620	26.170	0.150000
310.120	26.330	0.150000

\* All elevations are NAVD88.



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339.310	28.040	0.150000
343.430	27.150	0.150000
347.560	26.470	0.150000
351.680	26.040	0.150000
356.360	26.080	0.150000
361.030	26.170	0.150000
365.710	26.320	0.150000
370.390	26.510	0.150000
375.070	26.680	0.150000
379.740	26.830	0.150000
384.420	26.780	0.150000
389.100	26.680	0.150000
393.780	26.580	0.150000
398.450	26.470	0.150000
402.750	26.440	0.150000
407.040	26.130	0.150000
411.340	25.690	0.150000
415.640	25.650	0.150000
419.930	25.680	0.150000
424.230	25.710	0.150000
428.520	25.700	0.150000
432.490	25.690	0.150000
436.460	25.730	0.150000
440.810	25.920	0.150000
445.160	26.020	0.150000
449.510	25.980	0.150000
453.850	25.830	0.150000
458.200	25.790	0.150000
462.550	26.080	0.150000
466.900	26.650	0.150000
471.880	27.200	0.150000
476.860	27.610	0.150000
481.840	27.810	0.150000
486.820	27.930	0.150000
491.800	27.890	0.150000
496.780	27.610	0.150000
501.760	27.220	0.150000
506.740	26.760	0.150000
511.720	26.550	0.150000
516.700	26.770	0.150000
521.680	26.980	0.150000
526.660	27.100	0.150000
531.640	27.100	0.150000
536.620	27.110	0.150000
541.600	27.120	0.150000
546.580	27.180	0.150000
551.560	27.280	0.150000
556.540	27.370	0.150000
561.520	27.470	0.150000
566.210	27.490	0.150000
570.900	27.610	0.150000
575.590	27.820	0.150000
580.280	27.900	0.150000
584.970	27.730	0.150000
589.670	27.590	0.150000
594.360	27.520	0.150000
599.050	27.480	0.150000
603.740	27.260	0.150000
608.430	26.950	0.150000
613.120	26.950	0.150000
617.820	27.220	0.150000
622.510	27.510	0.150000
627.200	27.680	0.150000
631.890	27.700	0.150000
636.580	28.040	0.150000
641.490	28.210	0.150000
646.390	28.370	0.150000
651.300	28.570	0.150000
656.200	28.760	0.150000
661.110	28.940	0.150000
666.010	28.890	0.150000
670.920	28.850	0.150000
675.820	28.950	0.150000
680.720	29.510	0.150000
685.630	29.780	0.150000
690.530	29.980	0.150000
695.440	30.070	0.150000
700.340	30.140	0.150000
705.250	30.220	0.150000
710.150	30.760	0.150000

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Name: W11-13                                      Group: BASE  
Encroachment: No

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Station(ft)	Elevation(ft)	Manning's N
0.000	26.370	0.150000
2.500	26.090	0.150000
7.500	25.880	0.150000

\* All elevations are NAVD88.



12.500	26.550	0.150000
17.500	26.870	0.150000
22.500	27.080	0.150000
27.500	27.340	0.150000
32.500	27.490	0.150000
37.500	27.800	0.150000
42.500	28.000	0.150000
45.540	28.080	0.150000
48.040	28.080	0.150000
53.040	27.780	0.150000
58.040	27.430	0.150000
63.040	27.270	0.150000
68.040	27.160	0.150000
73.040	27.370	0.150000
78.040	27.590	0.150000
83.040	27.660	0.150000
88.040	27.520	0.150000
91.650	27.320	0.150000
94.150	27.250	0.150000
99.150	27.170	0.150000
104.150	27.080	0.150000
109.150	26.850	0.150000
114.150	26.710	0.150000
119.150	26.420	0.150000
124.150	26.160	0.150000
129.150	25.980	0.150000
134.150	25.990	0.150000
139.150	26.000	0.150000
144.150	26.100	0.150000
149.150	26.220	0.150000
154.320	26.250	0.150000
156.820	26.390	0.150000
161.820	26.530	0.150000
166.820	26.530	0.150000
171.820	26.510	0.150000
176.820	26.520	0.150000
181.820	26.510	0.150000
188.400	26.000	0.150000
190.900	26.020	0.150000
195.900	26.050	0.150000
200.900	26.030	0.150000
205.900	25.990	0.150000
210.900	25.910	0.150000
215.900	26.240	0.150000
220.900	26.460	0.150000
225.900	26.580	0.150000
230.900	26.460	0.150000
235.900	26.130	0.150000
240.900	25.810	0.150000
245.900	25.440	0.150000
250.900	25.710	0.150000
254.580	25.730	0.150000
257.080	25.760	0.150000
262.080	25.780	0.150000
267.080	25.660	0.150000
272.080	25.630	0.150000
277.080	25.730	0.150000
282.080	25.830	0.150000
287.080	25.850	0.150000
292.080	25.820	0.150000
297.080	25.840	0.150000
302.080	25.870	0.150000
307.080	25.910	0.150000
312.080	25.820	0.150000
317.080	25.520	0.150000
320.440	25.300	0.150000
322.940	25.250	0.150000
328.190	25.260	0.150000
330.690	25.320	0.150000
335.690	25.130	0.150000
340.690	24.870	0.150000
345.690	25.140	0.150000
350.690	25.420	0.150000
355.690	25.520	0.150000
360.690	25.620	0.150000
365.690	25.690	0.150000
370.690	25.470	0.150000
375.690	25.220	0.150000
380.690	24.580	0.150000
385.690	24.520	0.150000
390.690	25.140	0.150000
395.690	25.620	0.150000
400.690	25.640	0.150000
405.250	25.510	0.150000
407.750	25.480	0.150000
412.750	25.640	0.150000
417.750	25.890	0.150000
422.750	25.810	0.150000
427.750	25.730	0.150000
432.750	25.600	0.150000
437.750	25.330	0.150000
442.750	25.200	0.150000

\* All elevations are NAVD88.

447.750	25.650	0.150000
452.750	26.440	0.150000
457.750	26.750	0.150000
462.750	26.890	0.150000
467.750	26.570	0.150000
473.810	26.220	0.150000
476.310	26.240	0.150000
481.310	26.280	0.150000
486.310	26.330	0.150000
491.310	26.460	0.150000
496.310	26.600	0.150000
501.310	26.190	0.150000
506.310	25.730	0.150000
511.310	25.180	0.150000
516.310	24.940	0.150000
521.310	25.070	0.150000
527.080	24.950	0.150000
529.580	24.940	0.150000
534.580	24.910	0.150000
539.580	24.930	0.150000
544.580	25.340	0.150000
549.580	25.850	0.150000
554.580	25.700	0.150000
559.580	25.190	0.150000
564.580	24.570	0.150000
569.580	24.210	0.150000
575.800	23.960	0.150000
578.300	23.840	0.150000
583.300	24.030	0.150000
588.300	24.310	0.150000
593.300	24.330	0.150000
598.300	24.540	0.150000
603.300	25.030	0.150000
608.300	25.570	0.150000
613.300	26.130	0.150000
618.300	26.500	0.150000
623.300	26.750	0.150000
628.300	27.570	0.150000
633.300	27.910	0.150000
638.300	27.900	0.150000
643.300	27.590	0.150000
648.300	26.980	0.150000
653.300	26.490	0.150000
658.300	26.180	0.150000
662.380	25.950	0.150000
664.880	25.790	0.150000
669.880	25.540	0.150000
674.880	25.380	0.150000
679.880	25.670	0.150000
684.880	26.100	0.150000
689.880	26.300	0.150000
694.880	26.400	0.150000
699.880	26.800	0.150000
704.880	26.900	0.150000
709.880	26.650	0.150000
713.530	26.320	0.150000
716.030	26.050	0.150000
721.030	25.530	0.150000
726.030	25.510	0.150000
731.030	25.530	0.150000
736.030	25.630	0.150000
741.030	25.750	0.150000
746.030	25.970	0.150000
751.030	26.630	0.150000
756.030	26.630	0.150000
760.990	26.060	0.150000
763.490	25.890	0.150000
768.490	25.730	0.150000
773.490	25.620	0.150000
778.490	25.620	0.150000
783.490	25.600	0.150000
788.490	25.610	0.150000
793.490	25.580	0.150000
799.440	25.550	0.150000

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 Name: W11A-09A                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	26.950	0.150000
2.500	27.100	0.150000
7.500	27.330	0.150000
12.500	27.420	0.150000
17.500	27.430	0.150000
22.500	27.670	0.150000
27.500	28.050	0.150000
32.500	28.530	0.150000
37.500	28.890	0.150000

\* All elevations are NAVD88.

42.500	28.860	0.150000
47.500	28.120	0.150000
52.500	27.580	0.150000
57.500	27.350	0.150000
62.500	27.260	0.150000
67.500	27.240	0.150000
72.500	27.370	0.150000
77.500	27.660	0.150000
82.500	27.890	0.150000
87.500	28.030	0.150000
92.500	28.060	0.150000
97.500	28.030	0.150000
102.500	27.920	0.150000
107.500	27.590	0.150000
112.500	27.690	0.150000
117.500	28.490	0.150000
124.900	28.470	0.150000
127.390	28.470	0.150000
132.400	28.320	0.150000
137.390	28.170	0.150000
142.400	28.120	0.150000
147.400	28.300	0.150000
152.390	28.030	0.150000
157.400	27.790	0.150000
162.390	27.380	0.150000
167.400	27.170	0.150000
172.400	27.030	0.150000
177.390	26.650	0.150000
182.400	26.330	0.150000
187.390	26.540	0.150000
192.400	26.750	0.150000
197.400	26.630	0.150000
202.400	26.560	0.150000
208.750	26.340	0.150000
211.250	26.590	0.150000
216.250	27.100	0.150000
221.250	27.350	0.150000
226.250	27.150	0.150000
231.250	26.780	0.150000
236.250	26.460	0.150000
241.250	26.380	0.150000
246.250	26.890	0.150000
251.250	27.450	0.150000
256.250	27.470	0.150000
261.250	27.030	0.150000
266.250	26.400	0.150000
271.250	26.180	0.150000
276.250	26.020	0.150000
281.400	25.810	0.150000
283.890	25.800	0.150000
288.900	25.800	0.150000
293.900	25.900	0.150000
298.900	26.170	0.150000
303.900	26.370	0.150000
308.900	26.210	0.150000
313.890	26.030	0.150000
318.900	25.950	0.150000
323.900	25.960	0.150000
328.900	26.020	0.150000
333.900	25.730	0.150000
338.890	25.610	0.150000
343.900	25.800	0.150000
348.260	25.840	0.150000
350.760	25.860	0.150000
355.760	25.900	0.150000
360.760	25.940	0.150000
365.760	25.920	0.150000
370.760	25.730	0.150000
375.760	25.620	0.150000
380.760	25.950	0.150000
385.760	26.430	0.150000
390.760	26.470	0.150000
395.760	26.500	0.150000
400.760	26.730	0.150000
405.760	26.830	0.150000
410.760	26.850	0.150000
415.760	26.810	0.150000
420.760	26.910	0.150000
427.860	26.750	0.150000
430.360	26.480	0.150000
435.360	25.870	0.150000
440.360	25.830	0.150000
445.360	25.740	0.150000
450.360	26.310	0.150000
454.720	26.890	0.150000

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 Name: W11B-12  
 Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	27.020	0.150000
4.910	27.380	0.150000
9.830	27.640	0.150000
14.740	27.950	0.150000
19.650	28.250	0.150000
24.570	28.480	0.150000
29.480	28.520	0.150000
34.400	28.340	0.150000
39.310	27.890	0.150000
44.220	27.270	0.150000
49.140	26.410	0.150000
54.050	25.380	0.150000
58.960	24.750	0.150000
63.880	24.570	0.150000
68.720	24.760	0.150000
73.560	25.220	0.150000
78.410	25.670	0.150000
83.250	25.880	0.150000
88.090	26.090	0.150000
92.930	26.360	0.150000
97.780	26.640	0.150000
102.620	27.270	0.150000
107.460	28.210	0.150000
112.300	28.520	0.150000
117.150	28.160	0.150000
121.990	27.940	0.150000
126.830	27.480	0.150000
131.680	27.360	0.150000
136.520	27.330	0.150000
141.360	27.410	0.150000
146.200	27.730	0.150000
151.050	28.140	0.150000
155.890	28.100	0.150000
160.730	28.230	0.150000
165.620	27.880	0.150000
170.520	27.080	0.150000
175.410	26.850	0.150000
180.310	26.760	0.150000
185.200	26.260	0.150000
190.090	25.890	0.150000
194.990	25.970	0.150000
199.880	26.150	0.150000
204.770	26.220	0.150000
209.670	25.880	0.150000
214.560	25.970	0.150000
219.450	25.940	0.150000
224.350	25.990	0.150000
229.240	25.930	0.150000
234.130	26.030	0.150000
239.030	26.210	0.150000
243.920	26.190	0.150000
248.810	26.210	0.150000
253.560	26.310	0.150000
258.310	26.400	0.150000
263.060	26.460	0.150000
267.810	26.440	0.150000
272.560	26.390	0.150000
277.310	26.300	0.150000
282.060	26.130	0.150000
286.810	25.980	0.150000
291.560	26.070	0.150000
296.310	26.170	0.150000
301.060	26.320	0.150000
305.800	26.420	0.150000
310.550	26.440	0.150000
315.300	26.520	0.150000
320.050	26.600	0.150000
324.800	26.340	0.150000
329.550	26.150	0.150000
334.300	26.160	0.150000
339.240	26.300	0.150000
344.180	26.220	0.150000
349.120	26.130	0.150000
354.060	26.230	0.150000
359.000	26.690	0.150000
363.940	26.680	0.150000
368.880	26.750	0.150000
373.820	26.740	0.150000
378.760	26.990	0.150000
383.700	27.310	0.150000
388.640	27.280	0.150000
393.580	27.000	0.150000
398.520	26.550	0.150000
403.460	26.100	0.150000
408.400	25.940	0.150000
413.340	26.110	0.150000
418.280	26.280	0.150000
423.220	26.440	0.150000
428.160	26.480	0.150000
433.100	26.510	0.150000

\* All elevations are NAVD88.

438.040	26.340	0.150000
442.980	26.290	0.150000
447.920	26.370	0.150000
452.860	26.440	0.150000
457.800	26.780	0.150000
462.740	27.190	0.150000
467.680	27.210	0.150000
472.620	26.820	0.150000
477.560	26.220	0.150000
482.500	25.980	0.150000
487.440	26.150	0.150000
492.380	26.370	0.150000
497.320	26.540	0.150000
502.260	26.560	0.150000
507.200	26.640	0.150000
512.140	26.750	0.150000
517.080	26.790	0.150000
522.020	26.880	0.150000
526.960	27.010	0.150000
531.900	27.080	0.150000
536.840	27.360	0.150000
541.780	27.270	0.150000
546.720	27.110	0.150000
551.660	26.680	0.150000
556.600	26.480	0.150000
561.540	26.350	0.150000
566.480	26.330	0.150000

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 Name: W12-08B                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	26.180	0.150000
2.500	26.260	0.150000
7.500	26.450	0.150000
12.500	26.600	0.150000
17.500	26.700	0.150000
22.500	26.740	0.150000
27.500	26.770	0.150000
32.500	26.780	0.150000
37.500	26.850	0.150000
42.500	26.830	0.150000
47.500	26.770	0.150000
52.500	26.880	0.150000
57.500	26.700	0.150000
62.500	26.620	0.150000
67.500	26.690	0.150000
72.500	26.610	0.150000
77.500	26.460	0.150000
82.500	26.290	0.150000
87.500	26.200	0.150000
92.500	26.180	0.150000
97.500	26.100	0.150000
102.500	26.000	0.150000
107.500	26.120	0.150000
112.500	26.190	0.150000
117.500	26.230	0.150000
122.500	26.220	0.150000
127.500	26.500	0.150000
132.500	26.710	0.150000
137.500	26.830	0.150000
142.500	26.820	0.150000
147.500	26.670	0.150000
152.500	26.560	0.150000
157.500	26.570	0.150000
162.500	26.330	0.150000
166.730	26.230	0.150000
169.230	26.200	0.150000
174.230	26.230	0.150000
179.230	26.250	0.150000
184.230	25.920	0.150000
189.230	25.940	0.150000
194.230	25.850	0.150000
199.230	25.750	0.150000
204.230	25.740	0.150000
209.230	25.940	0.150000
214.230	26.310	0.150000
219.230	26.520	0.150000
224.230	26.590	0.150000
229.230	26.460	0.150000
234.230	26.430	0.150000
239.230	26.350	0.150000
244.230	26.540	0.150000
249.230	26.930	0.150000
254.230	27.310	0.150000
259.230	27.350	0.150000
264.230	27.100	0.150000
269.230	26.870	0.150000

\* All elevations are NAVD88.

274.230	26.950	0.150000
279.920	27.440	0.150000
282.420	27.730	0.150000
287.420	28.160	0.150000
292.420	28.400	0.150000
297.420	28.190	0.150000
302.420	27.870	0.150000
307.420	27.590	0.150000
312.420	27.690	0.150000
317.420	27.670	0.150000
322.420	27.510	0.150000
327.420	27.640	0.150000
332.420	27.840	0.150000
337.420	27.920	0.150000
342.420	27.790	0.150000
347.420	27.560	0.150000
352.420	27.400	0.150000
357.390	27.190	0.150000

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 Name: W12-09B                                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	26.330	0.150000
4.030	26.150	0.150000
8.060	26.240	0.150000
12.080	26.380	0.150000
16.110	26.240	0.150000
20.140	26.200	0.150000
25.020	26.420	0.150000
29.900	26.420	0.150000
34.780	26.510	0.150000
39.650	26.510	0.150000
44.530	26.510	0.150000
49.410	26.640	0.150000
54.290	26.780	0.150000
59.160	27.090	0.150000
64.040	27.220	0.150000
68.920	27.400	0.150000
73.800	27.300	0.150000
78.680	26.900	0.150000
83.550	26.620	0.150000
88.430	26.420	0.150000
93.310	26.260	0.150000
98.190	26.360	0.150000
103.070	26.660	0.150000
107.940	26.900	0.150000
112.820	27.140	0.150000
117.650	27.320	0.150000
122.480	27.390	0.150000
127.300	27.410	0.150000
132.130	27.440	0.150000
136.960	27.440	0.150000
141.790	27.540	0.150000
146.620	27.650	0.150000
151.440	27.380	0.150000
156.270	27.070	0.150000
161.100	26.820	0.150000
165.930	26.550	0.150000
170.750	26.460	0.150000
175.580	26.450	0.150000
180.410	26.430	0.150000
185.240	26.570	0.150000
190.070	26.850	0.150000
194.890	27.270	0.150000
199.720	27.580	0.150000
204.550	27.590	0.150000
209.380	27.270	0.150000
214.200	26.820	0.150000
219.030	26.580	0.150000
223.860	26.300	0.150000
228.690	26.560	0.150000
233.570	26.790	0.150000
238.460	26.890	0.150000
243.350	26.920	0.150000
248.230	27.010	0.150000
253.120	27.240	0.150000
258.000	27.530	0.150000
262.890	27.860	0.150000
267.780	28.100	0.150000
272.660	28.040	0.150000
277.550	27.670	0.150000
282.430	27.190	0.150000
287.320	26.810	0.150000
292.210	26.690	0.150000
297.090	26.760	0.150000
301.980	26.470	0.150000
306.870	25.860	0.150000

\* All elevations are NAVD88.

311.750	25.660	0.150000
316.640	25.940	0.150000
321.520	26.070	0.150000
326.410	25.960	0.150000
331.300	25.840	0.150000
336.180	25.690	0.150000
341.070	25.930	0.150000
345.950	26.490	0.150000
350.840	26.970	0.150000
355.730	26.980	0.150000
360.610	27.040	0.150000
365.500	27.070	0.150000
370.380	27.190	0.150000
375.360	27.460	0.150000
380.330	27.770	0.150000
385.300	27.980	0.150000
390.280	27.690	0.150000
395.250	27.190	0.150000
400.230	26.750	0.150000
405.200	26.290	0.150000
410.170	26.270	0.150000
415.140	26.670	0.150000
420.120	26.910	0.150000
425.090	26.930	0.150000
430.070	26.890	0.150000
435.040	26.940	0.150000
440.010	26.890	0.150000
444.990	26.880	0.150000
449.960	27.100	0.150000
454.930	27.280	0.150000
459.900	27.360	0.150000
464.880	27.400	0.150000
469.850	27.420	0.150000
474.830	27.310	0.150000
479.800	26.860	0.150000
484.770	26.790	0.150000
489.750	26.780	0.150000
494.720	26.700	0.150000
499.660	26.480	0.150000
504.590	26.410	0.150000
509.530	26.500	0.150000
514.470	26.650	0.150000
519.410	26.590	0.150000
524.350	26.600	0.150000
529.280	26.640	0.150000
534.220	26.510	0.150000
539.160	26.240	0.150000
544.100	26.010	0.150000
549.030	25.270	0.150000
553.970	25.480	0.150000
558.910	25.940	0.150000
563.850	26.510	0.150000
568.780	27.130	0.150000
573.720	27.930	0.150000
578.660	27.720	0.150000
583.600	27.290	0.150000
588.540	27.010	0.150000
593.470	26.850	0.150000
598.410	26.720	0.150000
603.350	26.520	0.150000
608.290	26.430	0.150000
613.220	26.360	0.150000
618.160	26.280	0.150000
623.100	26.190	0.150000
628.040	26.090	0.150000
632.980	25.990	0.150000
637.910	26.220	0.150000
642.850	26.390	0.150000
647.790	26.370	0.150000
652.730	26.370	0.150000
657.660	26.280	0.150000
662.600	26.230	0.150000
667.540	26.370	0.150000
672.480	26.580	0.150000
677.410	26.800	0.150000
682.350	26.930	0.150000
687.290	26.910	0.150000
692.190	26.750	0.150000
697.100	26.730	0.150000
702.000	26.500	0.150000
706.900	26.460	0.150000
711.810	26.730	0.150000
716.710	26.770	0.150000
721.610	26.660	0.150000
726.520	26.750	0.150000
731.420	26.730	0.150000
736.330	26.760	0.150000
741.230	26.750	0.150000
746.130	26.730	0.150000
751.040	26.710	0.150000
755.940	26.720	0.150000
760.840	26.790	0.150000

\* All elevations are NAVD88.





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116.890	26.430	0.150000
121.890	26.640	0.150000
126.890	26.830	0.150000
131.890	26.990	0.150000
136.890	27.110	0.150000
141.890	27.140	0.150000
146.890	27.070	0.150000
151.890	27.010	0.150000
156.890	26.870	0.150000
161.890	26.680	0.150000
166.890	26.460	0.150000
171.890	26.220	0.150000
176.890	26.020	0.150000
181.890	25.900	0.150000
188.750	25.840	0.150000
191.250	25.840	0.150000
196.250	25.850	0.150000
201.250	25.880	0.150000
206.250	25.920	0.150000
211.250	25.950	0.150000
216.250	25.930	0.150000
221.250	25.900	0.150000
226.250	25.900	0.150000
231.250	25.830	0.150000
236.250	25.720	0.150000
241.250	25.600	0.150000
246.250	25.420	0.150000
251.250	25.260	0.150000
256.250	25.370	0.150000
261.250	25.530	0.150000
266.250	25.630	0.150000
271.250	25.730	0.150000
276.250	25.850	0.150000
281.250	25.960	0.150000
286.250	26.010	0.150000
291.250	26.020	0.150000
296.250	25.950	0.150000
301.250	25.850	0.150000
306.250	25.720	0.150000
311.250	25.600	0.150000
316.250	25.480	0.150000
321.250	25.450	0.150000
326.250	25.470	0.150000
331.250	25.490	0.150000
336.250	25.530	0.150000
341.250	25.550	0.150000
346.250	25.550	0.150000
351.250	25.550	0.150000
356.250	25.560	0.150000
361.250	25.550	0.150000
368.350	25.540	0.150000
370.850	25.540	0.150000
375.850	25.530	0.150000
380.850	25.530	0.150000
385.850	25.520	0.150000
390.850	25.520	0.150000
395.850	25.520	0.150000
400.850	25.560	0.150000
405.850	25.620	0.150000
410.850	25.580	0.150000
415.850	25.550	0.150000
420.850	25.530	0.150000
425.850	25.510	0.150000
430.850	25.480	0.150000
435.850	25.460	0.150000
440.850	25.430	0.150000
445.850	25.410	0.150000
450.850	25.380	0.150000
455.850	25.360	0.150000
460.850	25.340	0.150000
465.850	25.320	0.150000
473.160	25.380	0.150000
475.660	25.430	0.150000
480.660	25.520	0.150000
485.660	25.680	0.150000
490.660	25.970	0.150000
495.660	26.170	0.150000
500.660	26.200	0.150000
505.660	25.650	0.150000
510.660	25.530	0.150000
515.660	25.450	0.150000
520.660	25.430	0.150000
525.660	25.450	0.150000
530.660	25.470	0.150000
535.660	25.510	0.150000
540.660	25.500	0.150000
545.660	25.450	0.150000
550.660	25.400	0.150000
555.880	25.390	0.150000
558.380	25.390	0.150000
563.380	25.400	0.150000
568.380	25.380	0.150000

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\* All elevations are NAVD88.



162.560	25.230	0.150000
167.560	25.400	0.150000
172.560	25.370	0.150000
175.090	25.390	0.150000
177.590	25.280	0.150000
182.590	25.370	0.150000
187.590	25.370	0.150000
192.590	25.320	0.150000
199.720	25.090	0.150000
202.220	25.170	0.150000
207.220	25.380	0.150000
212.220	25.410	0.150000
217.220	25.390	0.150000
222.220	25.330	0.150000
225.900	25.290	0.150000
228.400	25.250	0.150000
233.400	25.020	0.150000
238.400	25.070	0.150000
243.400	25.390	0.150000
248.400	25.330	0.150000
253.400	25.430	0.150000
258.400	25.340	0.150000
263.400	25.220	0.150000
267.620	25.120	0.150000
270.120	25.140	0.150000
275.120	25.400	0.150000
280.120	25.470	0.150000
285.120	25.060	0.150000
290.120	25.250	0.150000
295.120	25.410	0.150000
302.570	25.400	0.150000
305.070	25.410	0.150000
310.070	25.400	0.150000
315.070	25.440	0.150000
320.070	25.420	0.150000
325.070	25.380	0.150000
330.070	25.420	0.150000
335.070	25.580	0.150000
340.070	25.420	0.150000
345.070	25.380	0.150000
350.070	25.360	0.150000
354.960	25.410	0.150000
357.460	25.340	0.150000
362.460	25.260	0.150000
367.460	25.160	0.150000
372.460	25.270	0.150000
377.460	25.160	0.150000
382.460	25.380	0.150000
387.460	25.360	0.150000
392.460	25.280	0.150000
397.460	25.340	0.150000
402.460	25.400	0.150000
408.500	25.570	0.150000
411.000	25.540	0.150000
416.000	25.370	0.150000
421.000	25.200	0.150000
426.000	25.180	0.150000
431.510	25.100	0.150000
434.010	25.050	0.150000
439.010	25.060	0.150000
444.010	25.110	0.150000
447.120	24.930	0.150000
449.620	25.000	0.150000
454.620	25.150	0.150000
459.620	25.120	0.150000
466.980	25.100	0.150000
469.480	25.330	0.150000
474.480	25.270	0.150000
479.480	25.140	0.150000
484.480	25.250	0.150000
489.480	25.200	0.150000
492.530	25.140	0.150000
495.030	25.090	0.150000
500.030	25.170	0.150000
505.030	25.190	0.150000
510.030	25.180	0.150000
515.030	25.220	0.150000
520.030	24.970	0.150000
525.030	24.840	0.150000
531.830	25.070	0.150000
534.330	25.100	0.150000
539.330	25.110	0.150000
544.330	25.280	0.150000
549.940	25.510	0.150000
552.440	25.460	0.150000
557.440	25.550	0.150000
562.440	25.740	0.150000
565.600	25.720	0.150000
568.100	25.670	0.150000
573.100	25.480	0.150000
578.100	25.370	0.150000
582.850	25.310	0.150000

\* All elevations are NAVD88.

585.350	25.250	0.150000
590.350	25.100	0.150000
596.910	25.140	0.150000
599.410	25.130	0.150000
604.410	25.140	0.150000
611.870	25.210	0.150000
614.370	25.190	0.150000
619.370	25.180	0.150000
624.370	25.180	0.150000
629.370	25.220	0.150000
634.370	25.290	0.150000
640.200	25.400	0.150000
642.700	25.480	0.150000
647.700	25.640	0.150000
652.700	25.820	0.150000
657.700	26.000	0.150000
662.700	26.210	0.150000
667.700	26.420	0.150000
672.700	26.630	0.150000
677.700	26.800	0.150000
682.700	26.830	0.150000
688.440	26.810	0.150000
690.940	26.800	0.150000
695.940	26.780	0.150000
700.940	26.790	0.150000
705.940	26.830	0.150000
710.940	26.870	0.150000
713.970	26.900	0.150000
716.470	26.910	0.150000
721.470	26.880	0.150000
726.470	26.810	0.150000
731.470	26.740	0.150000
737.530	26.690	0.150000
737.760	26.690	0.150000
740.260	26.690	0.150000
745.260	26.660	0.150000
750.260	26.600	0.150000
755.260	26.530	0.150000
760.260	26.450	0.150000
765.260	26.380	0.150000
770.260	26.310	0.150000
775.260	26.250	0.150000
780.260	26.200	0.150000
785.220	26.160	0.150000
787.720	26.150	0.150000
792.720	26.150	0.150000
797.720	26.160	0.150000
802.720	26.200	0.150000
807.720	26.240	0.150000
812.720	26.300	0.150000
817.720	26.390	0.150000
822.720	26.490	0.150000
827.720	26.580	0.150000
832.720	26.660	0.150000
836.540	26.710	0.150000
839.040	26.730	0.150000
844.040	26.750	0.150000
849.040	26.780	0.150000
854.040	26.830	0.150000
859.040	26.840	0.150000
864.040	26.840	0.150000
869.040	26.850	0.150000
875.840	26.820	0.150000
878.340	26.810	0.150000
883.340	26.780	0.150000
888.340	26.760	0.150000
893.340	26.720	0.150000
898.340	26.720	0.150000
903.850	26.700	0.150000
906.350	26.690	0.150000
911.350	26.650	0.150000
916.350	26.610	0.150000
921.350	26.560	0.150000
926.350	26.510	0.150000
931.350	26.480	0.150000
935.160	26.480	0.150000
937.660	26.490	0.150000
942.660	26.540	0.150000
947.660	26.630	0.150000
952.660	26.730	0.150000
957.660	26.730	0.150000
962.660	26.740	0.150000
967.660	26.760	0.150000
972.660	26.760	0.150000
977.660	26.770	0.150000
984.760	26.790	0.150000
987.260	26.810	0.150000
992.260	26.860	0.150000
997.260	27.220	0.150000
1002.260	27.250	0.150000
1007.260	26.980	0.150000
1012.260	26.690	0.150000

\* All elevations are NAVD88.



17.500	28.700	0.150000
22.500	28.630	0.150000
27.500	28.560	0.150000
32.500	28.460	0.150000
37.500	28.380	0.150000
42.500	28.330	0.150000
47.500	28.310	0.150000
52.500	28.320	0.150000
57.500	28.320	0.150000
62.500	28.330	0.150000
67.590	28.330	0.150000
70.090	28.340	0.150000
75.090	28.360	0.150000
80.090	28.350	0.150000
85.090	28.240	0.150000
90.090	28.200	0.150000
95.090	28.160	0.150000
100.090	28.120	0.150000
105.090	28.080	0.150000
110.090	28.060	0.150000
115.090	27.650	0.150000
120.090	27.150	0.150000
125.090	27.030	0.150000
130.090	27.050	0.150000
135.090	27.070	0.150000
140.090	27.090	0.150000
147.060	27.120	0.150000
149.560	27.130	0.150000
154.560	27.150	0.150000
159.560	27.140	0.150000
164.560	27.080	0.150000
169.560	27.010	0.150000
174.560	26.940	0.150000
179.560	26.850	0.150000
184.560	26.690	0.150000
189.560	26.510	0.150000
194.560	26.350	0.150000
199.560	26.270	0.150000
204.560	26.290	0.150000
209.560	26.300	0.150000
214.560	26.320	0.150000
219.560	26.330	0.150000
224.560	26.290	0.150000
229.560	26.240	0.150000
234.560	26.230	0.150000
239.070	26.230	0.150000
241.570	26.230	0.150000
246.570	26.240	0.150000
251.570	26.240	0.150000
256.570	26.230	0.150000
261.570	26.130	0.150000
266.570	26.050	0.150000
271.570	26.020	0.150000
276.570	26.010	0.150000
281.570	26.000	0.150000
286.570	25.990	0.150000
291.570	26.000	0.150000
296.570	26.000	0.150000
301.570	26.010	0.150000
306.570	26.010	0.150000
311.570	26.000	0.150000
316.570	26.020	0.150000
321.570	26.030	0.150000
326.570	26.060	0.150000
331.570	26.100	0.150000
336.570	26.120	0.150000
341.570	26.080	0.150000
346.570	26.020	0.150000
351.570	25.950	0.150000
356.570	25.870	0.150000
361.570	25.780	0.150000
366.570	25.710	0.150000
371.570	25.670	0.150000
374.540	25.660	0.150000
377.040	25.670	0.150000
382.040	25.130	0.150000
387.040	24.960	0.150000
392.040	25.130	0.150000
397.040	25.210	0.150000
402.040	25.180	0.150000
407.040	25.140	0.150000
412.040	25.600	0.150000
417.040	25.980	0.150000
422.040	26.230	0.150000
427.040	26.750	0.150000
432.040	27.640	0.150000
437.040	28.040	0.150000
440.650	28.260	0.150000

Name: W16-17  
Encroachment: No

Group: BASE

\* All elevations are NAVD88.

Station(ft)	Elevation(ft)	Manning's N
0.000	25.000	0.150000
2.500	24.990	0.150000
7.500	24.980	0.150000
12.500	25.030	0.150000
17.500	25.090	0.150000
22.500	25.120	0.150000
27.500	25.120	0.150000
32.500	25.120	0.150000
37.500	25.110	0.150000
42.500	25.150	0.150000
47.500	25.140	0.150000
52.500	25.170	0.150000
57.500	25.130	0.150000
62.500	25.170	0.150000
67.500	25.200	0.150000
72.500	25.210	0.150000
77.500	25.250	0.150000
82.590	25.270	0.150000
85.090	25.260	0.150000
90.090	25.260	0.150000
95.090	25.250	0.150000
100.090	25.280	0.150000
105.090	25.330	0.150000
110.090	25.390	0.150000
115.090	25.420	0.150000
120.090	25.420	0.150000
125.090	25.410	0.150000
130.090	25.400	0.150000
135.090	25.370	0.150000
139.310	25.320	0.150000
141.810	25.290	0.150000
146.810	25.200	0.150000
151.810	25.070	0.150000
156.810	24.890	0.150000
161.810	24.780	0.150000
166.810	24.910	0.150000
171.810	25.000	0.150000
176.810	24.930	0.150000
181.810	24.850	0.150000
186.810	24.820	0.150000
191.810	24.820	0.150000
196.810	24.800	0.150000
201.810	24.710	0.150000
206.810	24.530	0.150000
211.810	24.360	0.150000
216.810	24.320	0.150000
221.810	24.340	0.150000
226.810	24.330	0.150000
231.810	24.160	0.150000
236.810	24.130	0.150000
241.810	24.120	0.150000
246.810	24.020	0.150000
253.960	24.020	0.150000
256.460	24.070	0.150000
261.460	24.050	0.150000
266.460	23.930	0.150000
271.460	23.850	0.150000
276.460	23.740	0.150000
281.460	23.680	0.150000
286.460	23.730	0.150000
291.460	23.590	0.150000
296.460	23.570	0.150000
301.460	23.580	0.150000
306.460	23.630	0.150000
311.460	23.660	0.150000
316.460	23.680	0.150000
321.460	23.710	0.150000
326.460	23.800	0.150000
331.460	23.860	0.150000
336.460	23.860	0.150000
341.460	23.780	0.150000
346.460	23.810	0.150000
351.460	23.840	0.150000
356.460	23.840	0.150000
361.460	23.820	0.150000
366.460	23.870	0.150000
371.460	23.870	0.150000
376.460	23.920	0.150000
381.460	23.960	0.150000
386.460	23.970	0.150000
391.460	23.970	0.150000
396.460	24.000	0.150000
401.460	24.010	0.150000
406.460	24.050	0.150000
411.460	24.110	0.150000
416.460	24.140	0.150000
421.460	24.240	0.150000

\* All elevations are NAVD88.

426.460	24.240	0.150000
431.460	24.190	0.150000
436.460	24.180	0.150000
441.460	24.140	0.150000
446.460	24.220	0.150000
451.460	24.240	0.150000
456.460	24.250	0.150000
461.460	24.390	0.150000
466.460	24.370	0.150000
471.460	24.280	0.150000
476.460	24.200	0.150000
481.460	24.170	0.150000
486.460	24.280	0.150000
492.240	24.290	0.150000
494.740	24.350	0.150000
499.740	24.320	0.150000
504.740	24.360	0.150000
509.740	24.460	0.150000
514.740	24.510	0.150000
519.740	24.530	0.150000
524.740	24.520	0.150000
529.740	24.420	0.150000
534.740	24.510	0.150000
539.740	24.560	0.150000
544.740	24.610	0.150000
549.740	24.530	0.150000
554.740	24.610	0.150000
559.740	24.620	0.150000
564.740	24.690	0.150000
569.740	24.730	0.150000
574.740	24.760	0.150000
579.740	24.760	0.150000
584.740	24.760	0.150000
589.740	24.740	0.150000
594.740	24.760	0.150000
599.740	24.800	0.150000
604.740	24.830	0.150000
609.740	24.830	0.150000
614.740	24.810	0.150000
619.740	24.780	0.150000
624.740	24.790	0.150000
629.740	24.800	0.150000
634.740	24.760	0.150000
639.740	24.780	0.150000
644.740	25.100	0.150000
649.740	25.390	0.150000
654.740	25.540	0.150000
659.740	25.660	0.150000
664.740	25.760	0.150000
669.740	25.830	0.150000
674.740	25.890	0.150000
679.740	25.910	0.150000
684.740	25.910	0.150000
689.740	25.890	0.150000
694.740	25.870	0.150000
699.740	25.840	0.150000
704.740	25.820	0.150000
709.710	25.800	0.150000
712.210	25.800	0.150000
717.210	25.800	0.150000
722.210	25.790	0.150000
727.210	25.770	0.150000
732.210	25.730	0.150000
737.210	25.710	0.150000
742.210	25.690	0.150000
747.210	25.670	0.150000
752.210	25.650	0.150000
757.210	25.620	0.150000
762.210	25.610	0.150000
767.210	25.630	0.150000
772.210	25.680	0.150000
777.210	25.710	0.150000
782.210	25.470	0.150000
787.930	24.970	0.150000

Name: W16-19  
Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	28.260	0.150000
4.860	28.300	0.150000
9.720	28.360	0.150000
14.580	28.500	0.150000
19.440	28.510	0.150000
24.300	28.420	0.150000
29.160	28.240	0.150000
34.020	28.710	0.150000
38.880	28.690	0.150000

\* All elevations are NAVD88.







203.810	25.550	0.150000
208.550	25.600	0.150000
213.300	25.640	0.150000
218.050	25.660	0.150000
222.790	25.610	0.150000
227.540	25.510	0.150000
232.290	25.440	0.150000
237.030	25.330	0.150000
241.730	25.290	0.150000
246.420	25.440	0.150000
251.120	25.540	0.150000
255.810	25.320	0.150000
260.510	25.280	0.150000
265.200	25.510	0.150000
269.900	25.540	0.150000
274.590	25.450	0.150000
279.290	25.410	0.150000
283.980	25.370	0.150000
288.680	25.400	0.150000
293.370	25.480	0.150000
298.060	25.430	0.150000
302.760	25.340	0.150000
307.450	25.380	0.150000
312.320	25.500	0.150000
317.190	25.620	0.150000
322.060	25.670	0.150000
326.930	25.720	0.150000
331.790	25.590	0.150000
336.660	25.400	0.150000
341.530	25.470	0.150000
346.400	25.440	0.150000
351.260	25.380	0.150000
356.130	25.330	0.150000
361.000	25.310	0.150000
365.870	25.280	0.150000
370.730	25.260	0.150000
375.600	25.220	0.150000
380.470	25.160	0.150000
385.340	25.100	0.150000
390.200	25.030	0.150000
395.070	24.970	0.150000
399.940	24.920	0.150000
404.540	24.840	0.150000
409.150	24.740	0.150000
413.750	24.640	0.150000
418.350	24.520	0.150000
422.960	24.390	0.150000
427.560	24.230	0.150000
432.160	24.070	0.150000
436.770	23.900	0.150000
441.370	23.740	0.150000
445.970	23.610	0.150000
450.580	23.520	0.150000
455.180	23.470	0.150000

Name: W19-OFFSITE-W                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	28.810	0.150000
2.500	28.800	0.150000
7.500	28.790	0.150000
13.940	28.780	0.150000
16.440	28.770	0.150000
21.440	28.760	0.150000
26.440	28.750	0.150000
31.440	28.710	0.150000
36.440	28.640	0.150000
43.910	29.020	0.150000
46.410	29.150	0.150000
51.410	29.160	0.150000
56.410	28.220	0.150000
61.410	27.670	0.150000
68.350	26.840	0.150000
70.850	26.450	0.150000
75.850	25.950	0.150000
80.850	25.550	0.150000
85.850	24.830	0.150000
89.060	24.310	0.150000
91.560	23.880	0.150000
96.560	23.390	0.150000
101.560	23.360	0.150000
106.560	23.380	0.150000
112.420	23.330	0.150000
114.920	23.540	0.150000
119.920	23.650	0.150000
124.920	23.480	0.150000
129.110	23.380	0.150000

\* All elevations are NAVD88.

131.610	23.440	0.150000
136.610	23.430	0.150000
141.610	23.490	0.150000
146.610	23.390	0.150000
151.610	23.260	0.150000
156.610	23.100	0.150000
161.610	23.020	0.150000
165.380	22.940	0.150000
167.880	22.920	0.150000
172.880	22.880	0.150000
177.880	22.820	0.150000
182.880	22.790	0.150000
187.880	22.770	0.150000
192.880	22.740	0.150000
197.880	22.690	0.150000
202.880	22.660	0.150000
207.880	22.510	0.150000
212.880	22.600	0.150000
217.880	22.710	0.150000
222.880	22.770	0.150000
227.880	22.790	0.150000
232.880	22.810	0.150000
235.950	23.010	0.150000
238.450	23.090	0.150000
243.450	23.100	0.150000
248.450	23.150	0.150000
253.450	23.160	0.150000
258.450	23.270	0.150000
263.450	23.280	0.150000
268.240	23.330	0.150000
270.740	23.230	0.150000
275.740	23.220	0.150000
280.740	23.120	0.150000
285.740	23.240	0.150000
290.740	23.000	0.150000
295.740	22.940	0.150000
300.740	22.910	0.150000
303.580	22.800	0.150000
306.080	22.800	0.150000
311.080	22.760	0.150000
316.080	22.810	0.150000
320.250	22.870	0.150000
322.750	22.890	0.150000
327.750	22.400	0.150000
332.750	22.190	0.150000
340.050	22.070	0.150000
342.550	22.060	0.150000
347.550	21.950	0.150000
352.550	21.880	0.150000
357.550	22.100	0.150000
362.550	22.160	0.150000
367.550	22.020	0.150000
370.440	21.940	0.150000
372.940	21.850	0.150000
377.940	22.020	0.150000
382.940	21.880	0.150000
387.940	21.880	0.150000
392.940	22.010	0.150000
397.940	22.180	0.150000
402.560	22.450	0.150000
405.060	22.440	0.150000
410.060	22.600	0.150000
415.060	22.640	0.150000
420.060	22.520	0.150000
426.770	22.510	0.150000
429.270	22.580	0.150000
434.270	22.530	0.150000
439.270	22.540	0.150000
444.270	22.610	0.150000
449.270	22.950	0.150000
453.520	23.050	0.150000
456.020	23.050	0.150000
461.020	23.020	0.150000
466.020	23.280	0.150000
471.020	23.630	0.150000
473.850	23.920	0.150000
476.350	24.030	0.150000
481.350	24.140	0.150000
486.350	23.970	0.150000
491.350	23.530	0.150000
496.350	23.230	0.150000
501.350	23.480	0.150000
506.350	23.540	0.150000
511.350	22.880	0.150000
518.120	22.500	0.150000
520.620	22.420	0.150000
525.620	22.640	0.150000
530.620	22.890	0.150000
535.620	22.980	0.150000
540.620	22.740	0.150000
545.620	22.940	0.150000
550.620	22.840	0.150000

\* All elevations are NAVD88.

555.620	22.860	0.150000
560.620	22.720	0.150000
565.610	22.690	0.150000
568.110	22.670	0.150000
573.110	22.640	0.150000
578.110	22.570	0.150000
583.110	22.470	0.150000
588.110	22.350	0.150000
593.110	22.350	0.150000
598.110	22.470	0.150000
601.360	22.400	0.150000
603.860	22.450	0.150000
608.860	22.380	0.150000
613.860	22.260	0.150000
618.860	22.340	0.150000
623.860	22.510	0.150000
630.210	23.270	0.150000
632.710	23.640	0.150000
637.710	24.670	0.150000
642.710	25.540	0.150000
647.710	25.530	0.150000
652.710	25.210	0.150000
658.690	25.130	0.150000
661.190	25.090	0.150000
666.190	24.960	0.150000
671.190	24.830	0.150000
676.190	24.700	0.150000
680.820	24.600	0.150000
683.320	24.500	0.150000
688.320	24.270	0.150000
693.320	24.060	0.150000
698.320	23.950	0.150000
703.320	23.910	0.150000
708.320	23.890	0.150000
713.320	23.880	0.150000
718.320	23.900	0.150000
723.320	23.970	0.150000
728.320	24.060	0.150000
733.320	24.180	0.150000
738.320	24.370	0.150000
740.940	24.440	0.150000
743.440	24.430	0.150000
748.440	24.290	0.150000
753.440	24.120	0.150000
758.440	24.090	0.150000
763.440	24.030	0.150000
768.440	23.980	0.150000
773.440	23.970	0.150000
778.440	23.720	0.150000
783.440	23.510	0.150000
788.440	23.410	0.150000
793.440	23.420	0.150000
798.440	23.430	0.150000
803.570	23.470	0.150000

Name: WCHLAKE3-05A  
Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	27.190	0.150000
4.970	27.010	0.150000
9.930	26.940	0.150000
14.900	27.090	0.150000
19.870	27.240	0.150000
24.830	27.150	0.150000
29.800	26.870	0.150000
34.770	26.620	0.150000
39.730	26.420	0.150000
44.700	26.190	0.150000
49.670	25.930	0.150000
54.630	25.690	0.150000
59.600	25.550	0.150000
64.570	25.530	0.150000
69.540	25.520	0.150000
74.500	25.550	0.150000
79.470	25.630	0.150000
84.440	25.610	0.150000
89.400	25.550	0.150000
94.370	25.560	0.150000
99.340	25.490	0.150000
104.300	25.420	0.150000
109.270	25.320	0.150000
114.240	25.180	0.150000
119.200	25.070	0.150000
124.170	25.160	0.150000
129.140	25.390	0.150000
134.100	25.510	0.150000
139.070	25.590	0.150000

\* All elevations are NAVD88.

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144.040	25.650	0.150000
149.000	25.560	0.150000
153.970	25.180	0.150000
158.940	25.050	0.150000
163.900	25.120	0.150000
168.870	25.320	0.150000
173.840	25.120	0.150000
178.800	25.020	0.150000
183.770	25.200	0.150000
188.740	25.240	0.150000
193.700	24.810	0.150000
198.670	24.650	0.150000
203.640	24.870	0.150000
208.610	24.950	0.150000
213.570	24.780	0.150000
218.540	24.780	0.150000
223.510	24.920	0.150000
228.470	25.050	0.150000
233.440	25.190	0.150000
238.410	25.340	0.150000
243.370	25.480	0.150000
248.340	25.550	0.150000
253.310	25.790	0.150000
258.270	25.260	0.150000
263.240	24.720	0.150000
268.210	24.630	0.150000
273.170	24.580	0.150000
278.140	24.480	0.150000
283.110	24.550	0.150000
288.070	24.710	0.150000
293.040	25.130	0.150000
298.010	25.370	0.150000
302.970	25.370	0.150000
307.950	25.200	0.150000
312.930	24.830	0.150000
317.910	24.760	0.150000
322.880	24.700	0.150000
327.860	24.670	0.150000
332.840	24.620	0.150000
337.820	24.540	0.150000
342.790	24.630	0.150000
347.770	24.790	0.150000
352.750	24.760	0.150000
357.730	24.680	0.150000
362.700	24.600	0.150000
367.680	24.520	0.150000
372.660	24.490	0.150000
377.640	24.470	0.150000
382.610	24.490	0.150000
387.590	24.480	0.150000
392.570	24.460	0.150000
397.550	24.500	0.150000
402.520	24.520	0.150000
407.500	24.500	0.150000
412.480	24.470	0.150000
417.460	24.450	0.150000
422.430	24.440	0.150000
427.410	24.490	0.150000
432.390	24.570	0.150000
437.370	24.600	0.150000
442.340	24.640	0.150000
447.320	24.660	0.150000
452.300	24.640	0.150000
457.280	24.600	0.150000
462.250	24.590	0.150000
467.230	24.550	0.150000
472.210	24.500	0.150000
477.190	24.470	0.150000
482.160	24.450	0.150000
487.140	24.440	0.150000
492.120	24.450	0.150000
497.100	24.460	0.150000
502.070	24.450	0.150000
507.050	24.430	0.150000
512.030	24.430	0.150000
517.000	24.450	0.150000
521.980	24.480	0.150000
526.960	24.500	0.150000
531.940	24.520	0.150000
536.910	24.530	0.150000
541.890	24.530	0.150000
546.870	24.480	0.150000
551.850	24.440	0.150000
556.820	24.420	0.150000
561.800	24.420	0.150000
566.780	24.460	0.150000
571.760	24.460	0.150000
576.730	24.430	0.150000
581.710	24.390	0.150000
586.690	24.350	0.150000
591.670	24.320	0.150000
596.640	24.290	0.150000

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\* All elevations are NAVD88.

601.620	24.260	0.150000
606.600	24.130	0.150000
611.580	23.940	0.150000
616.550	23.980	0.150000
621.530	24.110	0.150000
626.430	24.290	0.150000
631.320	24.510	0.150000
636.220	24.710	0.150000
641.120	24.850	0.150000
646.010	24.750	0.150000
650.910	24.730	0.150000
655.810	24.690	0.150000
660.700	24.750	0.150000
665.600	24.760	0.150000
670.490	24.710	0.150000
675.390	24.520	0.150000
680.290	24.380	0.150000
685.180	24.500	0.150000
690.080	24.490	0.150000
694.980	24.460	0.150000
699.870	24.490	0.150000
704.770	24.360	0.150000
709.660	24.300	0.150000
714.560	24.240	0.150000
719.460	24.250	0.150000
724.350	24.450	0.150000
729.250	24.550	0.150000
734.140	24.850	0.150000
739.040	24.960	0.150000
743.940	25.050	0.150000
748.830	25.060	0.150000
753.730	24.950	0.150000
758.630	25.040	0.150000
763.520	25.280	0.150000
768.420	25.530	0.150000
773.310	25.810	0.150000
778.030	25.730	0.150000
782.740	25.760	0.150000
787.460	25.590	0.150000
792.170	25.450	0.150000
796.890	25.410	0.150000
801.600	25.110	0.150000
806.320	24.720	0.150000
811.030	24.700	0.150000
815.740	24.930	0.150000
820.460	25.040	0.150000
825.170	25.110	0.150000
829.890	25.230	0.150000
834.600	25.220	0.150000
839.320	25.170	0.150000
844.310	25.430	0.150000
849.300	25.440	0.150000
854.300	25.430	0.150000
859.290	25.570	0.150000
864.290	25.500	0.150000
869.280	25.700	0.150000
874.270	25.600	0.150000
879.270	25.620	0.150000
884.260	25.890	0.150000
889.250	25.900	0.150000
894.250	25.680	0.150000
899.240	25.650	0.150000
904.230	25.650	0.150000
909.230	25.550	0.150000
914.220	25.340	0.150000
919.220	25.130	0.150000
924.210	25.220	0.150000
929.200	25.420	0.150000
934.200	25.590	0.150000
939.190	25.730	0.150000
944.180	25.570	0.150000
949.180	25.570	0.150000
954.170	25.850	0.150000
959.160	25.900	0.150000
964.160	25.830	0.150000
969.150	25.920	0.150000
974.150	25.880	0.150000
979.130	25.750	0.150000
984.120	25.390	0.150000
989.110	25.630	0.150000
994.100	25.960	0.150000
999.090	25.930	0.150000
1004.080	25.800	0.150000
1009.070	25.720	0.150000
1014.060	25.710	0.150000
1019.050	25.500	0.150000
1024.040	25.710	0.150000
1029.030	25.890	0.150000
1034.020	25.650	0.150000
1039.010	25.560	0.150000
1044.000	25.710	0.150000
1048.990	25.860	0.150000

\* All elevations are NAVD88.

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1053.980	25.760	0.150000
1058.970	25.680	0.150000
1063.950	25.390	0.150000
1068.940	25.310	0.150000
1073.930	25.370	0.150000
1078.920	25.340	0.150000
1083.910	25.350	0.150000
1088.900	25.390	0.150000
1093.890	25.330	0.150000
1098.880	25.270	0.150000
1103.870	25.140	0.150000
1108.860	25.030	0.150000
1113.850	25.130	0.150000
1118.840	25.280	0.150000
1123.830	25.310	0.150000
1128.820	25.390	0.150000
1133.810	25.270	0.150000
1138.800	25.190	0.150000
1143.780	25.320	0.150000
1148.770	25.480	0.150000
1153.760	25.430	0.150000
1158.750	25.620	0.150000
1163.740	25.600	0.150000
1168.730	25.350	0.150000
1173.720	25.260	0.150000
1178.710	25.320	0.150000
1183.700	25.140	0.150000
1188.690	25.090	0.150000
1193.680	24.990	0.150000
1198.670	25.060	0.150000
1203.660	25.240	0.150000
1208.650	25.460	0.150000
1213.640	25.590	0.150000
1218.630	25.720	0.150000
1223.610	25.770	0.150000
1228.600	25.750	0.150000
1233.590	25.450	0.150000
1238.580	24.860	0.150000
1243.570	24.480	0.150000
1248.560	24.770	0.150000
1253.550	24.670	0.150000
1258.540	24.380	0.150000
1263.530	24.480	0.150000
1268.520	24.720	0.150000
1273.510	25.010	0.150000
1278.500	25.310	0.150000
1283.490	25.560	0.150000
1288.480	25.750	0.150000
1293.470	25.850	0.150000
1298.460	25.880	0.150000
1303.440	25.970	0.150000
1308.430	25.740	0.150000
1313.420	25.670	0.150000
1318.410	25.780	0.150000
1323.400	25.920	0.150000
1328.390	25.970	0.150000
1333.380	25.950	0.150000
1338.370	25.920	0.150000
1343.360	25.870	0.150000
1348.350	25.640	0.150000
1353.340	25.740	0.150000
1358.330	25.820	0.150000
1363.320	26.150	0.150000
1368.310	26.630	0.150000
1373.300	26.480	0.150000
1378.290	26.440	0.150000
1383.280	26.430	0.150000
1388.260	26.440	0.150000
1393.250	26.370	0.150000
1398.240	26.240	0.150000
1403.230	26.310	0.150000
1408.220	26.200	0.150000
1413.170	26.160	0.150000
1418.110	26.170	0.150000
1423.060	26.050	0.150000
1428.000	25.770	0.150000
1432.950	25.550	0.150000
1437.890	25.380	0.150000
1442.840	25.260	0.150000
1447.780	25.360	0.150000
1452.730	25.410	0.150000
1457.670	25.380	0.150000
1462.620	25.750	0.150000
1467.560	26.060	0.150000
1472.510	26.040	0.150000
1477.460	25.960	0.150000
1482.400	25.950	0.150000
1487.350	26.030	0.150000
1492.290	26.170	0.150000
1497.240	26.320	0.150000
1502.180	26.490	0.150000
1507.130	26.690	0.150000

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\* All elevations are NAVD88.



1512.070	27.000	0.150000
1517.020	27.250	0.150000
1521.960	27.350	0.150000
1526.910	27.440	0.150000
1531.850	27.420	0.150000
1536.800	27.330	0.150000
1541.740	27.250	0.150000
1545.870	27.220	0.150000
1550.000	27.190	0.150000
1554.130	27.160	0.150000
1558.260	27.130	0.150000
1562.390	27.110	0.150000

Name: WDEPR-OFFSITE                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
278.930	25.750	0.150000
283.840	25.930	0.150000
288.760	25.900	0.150000
293.680	25.770	0.150000
298.600	25.630	0.150000
303.520	25.490	0.150000
308.440	25.340	0.150000
313.360	25.170	0.150000
318.280	24.780	0.150000
323.200	24.830	0.150000
328.120	25.210	0.150000
333.030	25.370	0.150000
337.950	25.550	0.150000
342.870	25.690	0.150000
347.760	25.650	0.150000
352.640	25.620	0.150000
357.520	25.600	0.150000
362.400	25.570	0.150000
367.290	25.520	0.150000
372.170	25.530	0.150000
377.050	25.680	0.150000
381.930	25.810	0.150000
386.820	25.790	0.150000
391.700	25.880	0.150000
396.580	25.800	0.150000
401.460	25.680	0.150000
406.350	25.730	0.150000
411.230	26.070	0.150000
416.110	25.890	0.150000
420.990	26.580	0.150000
425.880	27.540	0.150000
469.520	27.410	0.150000
474.340	27.130	0.150000
479.160	26.630	0.150000
483.990	25.990	0.150000
488.810	26.150	0.150000
493.630	26.450	0.150000
498.450	26.320	0.150000
503.280	26.480	0.150000
508.100	26.730	0.150000
512.920	26.790	0.150000
517.740	26.810	0.150000
522.570	26.890	0.150000
527.390	26.870	0.150000
532.210	26.900	0.150000
537.210	26.920	0.150000
542.210	27.040	0.150000
577.200	27.260	0.150000
582.200	26.730	0.150000
587.200	26.210	0.150000
592.200	25.750	0.150000
597.200	25.640	0.150000
602.190	25.670	0.150000
607.190	25.690	0.150000
612.190	25.700	0.150000
617.190	25.780	0.150000
622.190	25.970	0.150000
627.190	26.150	0.150000
632.190	26.180	0.150000
637.190	26.070	0.150000
642.140	26.170	0.150000
647.090	26.510	0.150000
652.050	26.930	0.150000
657.000	27.450	0.150000
686.720	27.120	0.150000
691.680	26.680	0.150000
696.630	26.220	0.150000
701.590	25.490	0.150000
706.540	25.120	0.150000
711.490	25.170	0.150000
716.410	25.600	0.150000

\* All elevations are NAVD88.

721.330	26.040	0.150000
726.250	26.590	0.150000
731.170	27.090	0.150000
736.080	27.050	0.150000
741.000	26.750	0.150000
745.920	26.510	0.150000
750.840	26.400	0.150000
755.760	26.430	0.150000
760.670	26.400	0.150000
765.590	26.450	0.150000
770.510	26.650	0.150000
775.430	26.930	0.150000
780.350	26.830	0.150000
785.270	26.810	0.150000
790.180	26.670	0.150000
795.100	26.680	0.150000
800.020	26.620	0.150000
804.970	26.530	0.150000
809.920	26.570	0.150000
814.870	26.740	0.150000
819.820	26.790	0.150000
824.770	26.590	0.150000
829.730	26.310	0.150000
834.680	26.070	0.150000
839.630	25.810	0.150000
844.580	25.680	0.150000
849.530	25.730	0.150000
854.480	25.810	0.150000
859.430	25.750	0.150000
864.380	25.540	0.150000
869.340	25.420	0.150000
874.290	26.070	0.150000
879.240	26.410	0.150000
884.190	26.630	0.150000
889.140	27.010	0.150000
923.800	27.110	0.150000
928.750	26.870	0.150000
933.700	26.590	0.150000
938.650	26.460	0.150000
943.600	26.510	0.150000
948.550	26.630	0.150000
953.510	26.670	0.150000
958.440	26.150	0.150000
963.380	25.840	0.150000
968.320	25.990	0.150000
973.260	26.470	0.150000
978.200	26.740	0.150000
983.130	26.650	0.150000
988.070	26.510	0.150000
993.010	26.170	0.150000
997.950	25.790	0.150000
1002.890	25.740	0.150000
1007.820	25.880	0.150000
1012.760	26.010	0.150000
1017.700	26.290	0.150000
1022.640	26.810	0.150000
1027.580	27.420	0.150000
1086.230	27.420	0.150000
1090.970	26.700	0.150000
1095.710	25.730	0.150000
1100.450	25.300	0.150000
1105.190	25.100	0.150000
1109.930	24.980	0.150000
1114.660	24.860	0.150000
1119.400	24.850	0.150000
1124.140	25.080	0.150000
1128.880	25.450	0.150000
1133.620	25.850	0.150000
1138.360	26.060	0.150000
1143.300	26.390	0.150000
1148.250	26.670	0.150000
1153.190	26.900	0.150000
1158.130	27.010	0.150000
1163.080	26.940	0.150000
1168.020	26.920	0.150000
1172.970	26.820	0.150000
1177.910	26.410	0.150000
1182.860	26.000	0.150000
1187.800	25.500	0.150000
1192.740	25.180	0.150000
1197.690	25.170	0.150000
1202.630	25.510	0.150000
1207.580	26.010	0.150000
1212.520	26.400	0.150000
1217.470	26.770	0.150000
1222.410	27.240	0.150000
1306.090	27.180	0.150000
1311.010	26.610	0.150000
1315.930	26.390	0.150000
1320.850	26.470	0.150000
1325.700	26.640	0.150000
1330.550	26.740	0.150000

\* All elevations are NAVD88.

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1335.410	26.600	0.150000
1340.260	26.310	0.150000
1345.110	26.090	0.150000
1349.960	25.760	0.150000
1354.820	26.100	0.150000
1359.670	26.380	0.150000
1364.520	26.450	0.150000
1369.370	26.500	0.150000
1374.230	26.550	0.150000
1379.080	26.950	0.150000
1383.930	27.480	0.150000
1388.780	27.980	0.150000
1393.640	28.000	0.150000
1398.490	27.370	0.150000
1403.430	26.620	0.150000
1408.370	25.860	0.150000
1413.310	26.020	0.150000
1418.250	26.440	0.150000
1423.190	26.980	0.150000
1472.600	26.940	0.150000
1477.540	26.560	0.150000
1482.480	26.490	0.150000
1487.420	26.500	0.150000
1492.220	26.420	0.150000
1497.020	26.370	0.150000
1501.820	26.430	0.150000
1506.620	26.820	0.150000
1511.420	26.950	0.150000
1516.220	26.780	0.150000
1521.020	26.250	0.150000
1525.820	26.070	0.150000
1530.620	26.090	0.150000
1535.420	25.990	0.150000
1540.220	26.070	0.150000
1545.020	26.190	0.150000
1549.820	26.310	0.150000
1554.620	26.450	0.150000
1559.420	26.510	0.150000
1564.220	26.310	0.150000
1569.020	26.220	0.150000
1573.820	26.240	0.150000
1578.620	26.260	0.150000
1583.430	26.100	0.150000
1588.230	25.990	0.150000
1593.030	25.780	0.150000
1597.740	25.750	0.150000
1602.460	25.870	0.150000
1607.170	26.020	0.150000
1611.890	26.110	0.150000
1616.600	26.220	0.150000
1621.320	26.390	0.150000
1626.030	26.700	0.150000
1630.750	26.840	0.150000
1635.460	26.500	0.150000
1640.180	26.270	0.150000
1644.900	25.930	0.150000
1649.610	25.450	0.150000
1654.330	25.240	0.150000
1659.040	25.370	0.150000
1663.760	25.760	0.150000
1668.470	26.730	0.150000
1673.190	27.450	0.150000
1677.970	27.820	0.150000
1682.750	27.460	0.150000
1687.530	26.950	0.150000
1692.300	26.670	0.150000
1697.080	26.240	0.150000
1701.860	25.850	0.150000
1706.640	25.460	0.150000
1711.420	25.220	0.150000
1716.200	25.280	0.150000
1720.980	25.470	0.150000
1725.760	25.670	0.150000
1730.540	26.050	0.150000
1735.320	26.460	0.150000
1740.100	26.590	0.150000
1744.880	26.320	0.150000
1749.660	25.920	0.150000
1754.580	26.640	0.150000
1759.510	27.000	0.150000
1764.440	26.930	0.150000
1769.370	26.610	0.150000
1774.290	26.630	0.150000
1779.220	26.690	0.150000
1784.150	26.160	0.150000
1789.080	25.720	0.150000
1794.000	25.480	0.150000
1798.930	25.690	0.150000
1803.860	26.250	0.150000
1808.790	26.800	0.150000
1813.540	27.070	0.150000
1818.290	27.050	0.150000

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\* All elevations are NAVD88.

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1823.040	27.020	0.150000
1827.790	26.800	0.150000
1832.540	26.640	0.150000
1837.290	26.870	0.150000
1842.040	27.170	0.150000
1919.160	27.060	0.150000
1924.100	26.850	0.150000
1929.030	26.400	0.150000
1933.970	26.120	0.150000
1938.910	26.280	0.150000
1943.840	26.720	0.150000
1948.780	26.910	0.150000
1953.710	26.920	0.150000
1958.650	27.180	0.150000
1973.460	27.500	0.150000
1978.390	26.950	0.150000
1983.330	27.140	0.150000
2031.860	27.280	0.150000
2036.660	26.860	0.150000
2041.460	26.620	0.150000
2046.250	26.360	0.150000
2051.050	26.110	0.150000
2055.850	26.080	0.150000
2060.650	26.110	0.150000
2065.440	26.280	0.150000
2070.240	26.710	0.150000
2075.040	27.230	0.150000
2079.840	27.320	0.150000
2084.640	26.980	0.150000
2089.430	26.630	0.150000
2094.230	26.460	0.150000
2099.030	26.530	0.150000
2103.830	26.650	0.150000
2108.620	26.770	0.150000
2113.420	26.800	0.150000
2118.340	26.840	0.150000
2123.260	26.680	0.150000
2128.180	26.420	0.150000
2133.100	26.140	0.150000
2138.030	25.980	0.150000
2142.950	25.790	0.150000
2147.870	25.580	0.150000
2152.790	25.400	0.150000
2157.710	25.240	0.150000
2162.630	25.100	0.150000
2167.550	24.960	0.150000
2172.470	24.860	0.150000
2177.390	24.800	0.150000
2182.310	24.790	0.150000
2187.230	25.050	0.150000
2192.150	25.840	0.150000
2197.070	26.590	0.150000
2201.990	27.160	0.150000
2236.610	27.120	0.150000
2241.560	26.770	0.150000
2246.500	26.300	0.150000
2251.290	26.240	0.150000
2256.070	26.360	0.150000
2260.850	26.520	0.150000
2265.640	26.940	0.150000
2270.420	27.300	0.150000
2275.200	27.650	0.150000
2279.980	27.730	0.150000
2284.770	27.670	0.150000
2289.550	26.700	0.150000
2294.330	25.930	0.150000
2299.120	25.960	0.150000
2303.900	26.260	0.150000
2308.680	26.430	0.150000
2313.470	26.600	0.150000
2318.250	26.220	0.150000
2323.030	25.920	0.150000
2327.820	25.840	0.150000
2332.600	26.450	0.150000
2337.380	27.350	0.150000
2371.280	27.250	0.150000
2376.120	26.740	0.150000
2380.960	26.740	0.150000
2385.810	26.750	0.150000
2390.650	26.720	0.150000
2395.490	26.880	0.150000
2400.340	26.950	0.150000
2405.180	26.870	0.150000
2410.020	27.030	0.150000
2482.800	27.390	0.150000
2487.710	26.980	0.150000
2492.620	26.540	0.150000
2497.530	26.110	0.150000
2502.440	25.590	0.150000
2507.350	25.030	0.150000
2512.260	24.690	0.150000
2517.170	24.550	0.150000

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\* All elevations are NAVD88.

2522.080	24.520	0.150000
2526.990	24.530	0.150000
2531.900	24.500	0.150000
2536.810	24.520	0.150000
2541.720	24.670	0.150000
2546.630	24.970	0.150000
2551.540	25.310	0.150000
2556.450	25.370	0.150000
2561.360	25.440	0.150000
2566.270	25.470	0.150000
2571.180	25.600	0.150000
2576.100	25.780	0.150000
2581.010	25.870	0.150000
2585.920	25.650	0.150000
2590.830	25.660	0.150000
2595.740	25.740	0.150000
2600.650	25.720	0.150000
2605.560	25.640	0.150000
2610.470	25.650	0.150000
2615.380	25.750	0.150000
2620.360	25.860	0.150000
2625.340	25.820	0.150000
2630.310	25.630	0.150000
2635.290	25.630	0.150000
2640.270	25.650	0.150000
2645.250	25.520	0.150000
2650.230	25.450	0.150000
2655.210	25.570	0.150000
2660.180	25.550	0.150000
2665.160	25.220	0.150000
2670.140	25.030	0.150000
2675.120	25.040	0.150000
2680.100	25.120	0.150000
2685.070	25.190	0.150000
2690.050	25.280	0.150000
2695.030	25.340	0.150000
2700.010	25.350	0.150000
2704.990	25.200	0.150000
2709.970	25.230	0.150000
2714.940	25.290	0.150000
2719.920	25.310	0.150000
2724.900	25.300	0.150000
2729.880	25.380	0.150000
2734.860	25.450	0.150000
2739.840	25.420	0.150000
2744.810	25.390	0.150000
2749.790	25.390	0.150000
2754.770	25.400	0.150000
2759.750	25.420	0.150000
2764.730	25.460	0.150000
2769.710	25.510	0.150000
2774.680	25.530	0.150000
2779.660	25.550	0.150000
2784.640	25.570	0.150000
2789.620	25.580	0.150000
2794.600	25.580	0.150000
2799.580	25.610	0.150000
2804.550	25.650	0.150000
2809.530	25.690	0.150000
2814.510	25.740	0.150000
2819.490	25.790	0.150000
2824.470	25.840	0.150000
2829.440	25.640	0.150000
2834.420	25.510	0.150000
2839.400	25.480	0.150000
2844.380	25.430	0.150000
2849.360	25.420	0.150000
2854.340	25.380	0.150000
2859.310	25.370	0.150000
2864.290	25.400	0.150000
2869.270	25.440	0.150000
2874.250	25.450	0.150000
2879.230	25.400	0.150000
2884.210	25.320	0.150000
2889.180	25.240	0.150000
2894.160	25.160	0.150000
2899.140	25.040	0.150000
2904.120	24.940	0.150000
2909.100	24.760	0.150000
2914.080	24.920	0.150000
2919.050	25.170	0.150000
2924.030	25.290	0.150000
2929.010	25.400	0.150000
2933.990	25.450	0.150000
2938.970	25.520	0.150000
2943.940	25.600	0.150000
2948.920	25.640	0.150000
2953.890	25.610	0.150000
2958.870	25.880	0.150000
2963.840	26.350	0.150000
2968.820	26.280	0.150000
2973.790	26.350	0.150000

\* All elevations are NAVD88.





228.520	28.070	0.150000
232.190	28.350	0.150000
234.690	28.400	0.150000
239.690	28.400	0.150000
244.690	28.330	0.150000
249.690	28.210	0.150000
254.690	28.020	0.150000
259.690	27.850	0.150000
264.610	27.930	0.150000
267.110	28.040	0.150000
272.110	28.300	0.150000
277.110	28.110	0.150000
282.110	27.620	0.150000
287.110	27.660	0.150000
292.110	27.810	0.150000
297.110	28.200	0.150000
302.110	28.450	0.150000
307.840	28.580	0.150000
310.340	28.440	0.150000
315.340	28.040	0.150000
320.340	27.720	0.150000
325.340	27.930	0.150000
330.340	28.220	0.150000
335.340	28.560	0.150000
340.340	28.640	0.150000
346.000	28.830	0.150000

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 Name: WSMF1lwet-11A                      Group: BASE  
 Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	28.830	0.150000
2.500	28.890	0.150000
8.440	28.910	0.150000
10.940	28.970	0.150000
15.940	29.090	0.150000
20.940	29.200	0.150000
25.940	28.910	0.150000
31.640	28.990	0.150000
34.130	28.700	0.150000
39.130	28.190	0.150000
44.130	27.620	0.150000
49.130	27.320	0.150000
55.040	27.270	0.150000
57.540	27.210	0.150000
62.540	27.150	0.150000
67.540	27.160	0.150000
72.540	27.090	0.150000
77.540	27.280	0.150000
82.540	27.500	0.150000
87.540	27.490	0.150000
92.540	27.440	0.150000
97.540	27.410	0.150000
102.540	27.780	0.150000
107.540	28.320	0.150000
112.540	28.650	0.150000
117.540	28.390	0.150000
122.540	27.600	0.150000
127.540	26.790	0.150000
132.540	26.820	0.150000
137.540	26.740	0.150000
142.540	26.630	0.150000
147.540	26.440	0.150000
152.540	26.220	0.150000
157.540	26.270	0.150000
162.540	26.440	0.150000
167.540	26.960	0.150000
172.540	27.300	0.150000
177.540	27.180	0.150000
182.540	26.850	0.150000
187.540	26.800	0.150000
192.540	27.000	0.150000
197.540	27.180	0.150000
202.540	27.320	0.150000
207.540	27.310	0.150000
212.540	27.140	0.150000
217.540	26.880	0.150000
222.540	26.700	0.150000
227.540	26.740	0.150000
232.540	26.920	0.150000
237.540	26.650	0.150000
242.540	26.130	0.150000
247.540	25.600	0.150000
252.540	25.360	0.150000
257.540	25.150	0.150000
262.540	24.810	0.150000
267.540	24.420	0.150000
272.540	24.290	0.150000

\* All elevations are NAVD88.



277.540	24.640	0.150000
282.540	24.540	0.150000
287.540	24.230	0.150000
292.540	24.000	0.150000
297.540	23.860	0.150000
302.540	23.800	0.150000
305.490	23.750	0.150000
307.990	23.710	0.150000
312.990	23.690	0.150000
317.990	23.740	0.150000
322.990	23.780	0.150000
327.990	23.740	0.150000
332.990	23.580	0.150000
337.990	23.550	0.150000
342.990	23.570	0.150000
347.990	23.690	0.150000
352.990	23.590	0.150000
357.990	23.300	0.150000
362.990	23.290	0.150000
367.990	23.420	0.150000
372.990	23.380	0.150000
377.990	23.220	0.150000
382.990	23.150	0.150000
387.990	23.160	0.150000
392.750	23.150	0.150000
395.250	23.140	0.150000
400.250	23.130	0.150000
405.250	23.210	0.150000
409.250	23.260	0.150000
411.750	23.240	0.150000
416.750	23.220	0.150000
421.750	23.230	0.150000
426.750	23.220	0.150000
431.750	23.210	0.150000
436.750	23.200	0.150000
441.750	23.200	0.150000
446.750	23.190	0.150000
451.750	23.180	0.150000
456.750	23.180	0.150000
461.750	23.180	0.150000
466.750	23.170	0.150000
471.750	23.160	0.150000
476.750	23.160	0.150000
481.750	23.170	0.150000
486.750	23.170	0.150000
491.750	23.180	0.150000
496.750	23.200	0.150000
501.750	23.210	0.150000
506.750	23.230	0.150000
511.750	23.260	0.150000
516.750	23.260	0.150000
521.750	23.190	0.150000
526.750	23.130	0.150000
531.750	23.090	0.150000
536.750	23.160	0.150000
541.750	23.330	0.150000
546.750	23.400	0.150000
551.750	23.350	0.150000
556.750	23.310	0.150000
561.750	23.260	0.150000
566.750	23.210	0.150000
571.750	23.160	0.150000
576.750	23.120	0.150000
581.750	23.100	0.150000
586.750	23.100	0.150000
591.750	23.090	0.150000
596.750	23.120	0.150000
601.750	23.110	0.150000
606.750	23.010	0.150000
611.750	23.000	0.150000
616.750	23.030	0.150000
621.750	23.100	0.150000
626.750	23.330	0.150000
631.750	23.630	0.150000
636.750	23.830	0.150000
641.750	23.930	0.150000
645.610	23.940	0.150000

Name: WSMF2wet-01B  
Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	25.970	0.150000
4.900	26.420	0.150000
9.810	26.300	0.150000
14.710	26.080	0.150000
19.610	25.880	0.150000
24.510	25.690	0.150000

\* All elevations are NAVD88.

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29.420	25.500	0.150000
34.320	25.220	0.150000
39.220	25.220	0.150000
44.130	25.660	0.150000
49.030	26.300	0.150000
53.930	26.900	0.150000
58.830	27.490	0.150000
63.740	28.010	0.150000
68.640	28.160	0.150000
73.540	28.430	0.150000
78.440	28.330	0.150000
83.350	27.800	0.150000
88.250	27.040	0.150000
93.150	26.890	0.150000
98.060	26.930	0.150000
102.960	27.200	0.150000
107.860	27.310	0.150000
112.760	27.450	0.150000
117.650	27.550	0.150000
122.530	27.360	0.150000
127.420	26.960	0.150000
132.300	26.850	0.150000
137.190	26.470	0.150000
142.070	26.310	0.150000
146.950	26.260	0.150000
151.840	26.470	0.150000
156.720	26.730	0.150000
161.610	27.000	0.150000
166.490	27.200	0.150000
171.380	27.260	0.150000
176.260	27.400	0.150000
181.140	27.740	0.150000
186.030	27.870	0.150000
190.910	27.720	0.150000
195.800	27.490	0.150000
200.680	27.250	0.150000
205.570	27.080	0.150000
210.450	26.960	0.150000
215.330	27.010	0.150000
220.220	27.130	0.150000
225.100	27.290	0.150000
229.990	27.430	0.150000
234.870	27.510	0.150000
239.760	27.520	0.150000
244.650	27.020	0.150000
249.540	26.370	0.150000
254.430	26.310	0.150000
259.320	26.510	0.150000
264.210	26.780	0.150000
269.100	27.130	0.150000
273.990	27.400	0.150000
278.880	27.590	0.150000
283.770	27.720	0.150000
288.660	27.720	0.150000
293.550	27.660	0.150000
298.440	27.600	0.150000
303.330	27.580	0.150000
308.220	27.540	0.150000
313.110	27.340	0.150000
318.000	27.000	0.150000
322.890	26.330	0.150000
327.780	25.550	0.150000
332.670	25.540	0.150000
337.560	25.620	0.150000
342.450	25.850	0.150000
347.340	26.360	0.150000
352.230	26.950	0.150000
357.120	27.380	0.150000
362.010	27.420	0.150000
366.900	27.370	0.150000
371.790	27.330	0.150000
376.680	27.410	0.150000
381.570	27.180	0.150000
386.460	26.810	0.150000
391.350	26.660	0.150000
396.240	26.500	0.150000
401.130	26.420	0.150000
406.020	26.570	0.150000
410.910	26.720	0.150000
415.800	26.950	0.150000
420.690	27.070	0.150000
425.580	27.110	0.150000
430.470	27.120	0.150000
435.360	27.030	0.150000
440.250	26.740	0.150000
445.140	26.540	0.150000
450.030	26.810	0.150000
454.920	26.850	0.150000
459.810	26.680	0.150000
464.700	26.500	0.150000
469.590	26.340	0.150000
474.480	26.480	0.150000

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\* All elevations are NAVD88.

473.670	26.700	0.150000
478.100	26.850	0.150000
482.530	27.010	0.150000
486.960	27.100	0.150000
491.380	27.080	0.150000
495.810	27.220	0.150000
500.240	27.320	0.150000
505.090	27.360	0.150000
509.950	27.260	0.150000
514.800	26.830	0.150000
519.660	26.790	0.150000
524.510	26.800	0.150000
529.370	26.880	0.150000
534.220	27.180	0.150000
539.080	27.560	0.150000
543.930	28.210	0.150000
548.790	28.220	0.150000
553.640	27.900	0.150000
558.500	27.560	0.150000
563.350	27.310	0.150000
568.210	27.210	0.150000
573.060	26.920	0.150000
577.920	26.570	0.150000
582.770	26.200	0.150000
587.630	25.820	0.150000
592.480	25.580	0.150000
597.340	25.600	0.150000
602.190	25.970	0.150000
607.050	26.340	0.150000
611.900	26.340	0.150000
616.760	26.440	0.150000
621.610	26.540	0.150000
626.490	26.520	0.150000
631.370	26.410	0.150000
636.240	26.270	0.150000
641.120	26.140	0.150000
646.000	26.040	0.150000
650.880	26.010	0.150000
655.750	25.980	0.150000
660.630	25.950	0.150000
665.510	25.720	0.150000
670.390	25.250	0.150000
675.260	24.800	0.150000
680.140	24.820	0.150000
685.020	24.790	0.150000
689.900	24.610	0.150000
694.770	24.380	0.150000
699.650	24.220	0.150000
704.530	24.160	0.150000
709.410	24.240	0.150000
714.280	24.160	0.150000
719.160	24.190	0.150000
724.040	24.360	0.150000
728.920	24.460	0.150000
733.790	24.550	0.150000
738.670	24.610	0.150000
743.550	24.830	0.150000
748.430	25.450	0.150000
753.300	26.260	0.150000
758.180	27.060	0.150000
763.060	27.680	0.150000
767.940	27.760	0.150000
772.810	27.180	0.150000
777.690	26.340	0.150000
782.570	25.600	0.150000
787.450	25.340	0.150000
792.320	25.730	0.150000
797.200	26.110	0.150000
802.080	26.010	0.150000
806.960	25.850	0.150000
811.790	25.770	0.150000
816.630	25.740	0.150000
821.470	25.730	0.150000
826.300	25.850	0.150000
831.140	25.720	0.150000
835.980	25.860	0.150000
840.810	26.110	0.150000
845.650	26.600	0.150000
850.490	26.930	0.150000
855.320	27.340	0.150000
860.160	27.960	0.150000
865.000	28.100	0.150000
869.830	27.990	0.150000
874.670	27.890	0.150000
879.510	27.700	0.150000
884.350	27.390	0.150000
889.180	27.050	0.150000
893.950	26.830	0.150000
898.720	26.710	0.150000
903.490	26.600	0.150000
908.260	26.490	0.150000
913.030	26.370	0.150000

\* All elevations are NAVD88.

917.800	26.260	0.150000
922.570	26.140	0.150000
927.340	25.870	0.150000
932.110	25.450	0.150000
936.880	25.170	0.150000
941.650	25.000	0.150000
946.640	25.000	0.150000
951.630	25.200	0.150000
956.630	25.360	0.150000
961.620	25.550	0.150000
966.610	25.930	0.150000
971.600	26.360	0.150000
976.600	26.630	0.150000
981.590	26.900	0.150000
986.580	27.180	0.150000
991.570	27.490	0.150000
996.560	27.650	0.150000
1001.560	26.900	0.150000
1006.550	26.430	0.150000
1011.400	26.680	0.150000
1016.250	27.040	0.150000
1021.110	27.410	0.150000
1025.960	27.710	0.150000
1030.810	27.800	0.150000
1035.660	27.620	0.150000
1040.510	27.290	0.150000
1045.370	27.090	0.150000
1050.220	27.160	0.150000
1055.070	27.300	0.150000
1059.920	27.480	0.150000
1064.780	27.780	0.150000
1069.630	28.030	0.150000
1074.480	28.100	0.150000
1079.330	28.070	0.150000
1084.180	27.840	0.150000
1089.040	27.620	0.150000
1093.640	27.440	0.150000
1098.240	27.240	0.150000
1102.850	27.120	0.150000
1107.450	27.310	0.150000
1112.050	27.420	0.150000
1116.660	27.350	0.150000
1121.260	27.240	0.150000
1125.870	27.120	0.150000
1130.510	26.870	0.150000
1135.160	26.770	0.150000
1139.800	27.280	0.150000
1144.450	27.770	0.150000
1149.100	28.180	0.150000

Name: WSMF5wet-05A  
Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	26.080	0.150000
0.780	26.100	0.150000
3.400	25.960	0.150000
5.900	25.900	0.150000
10.900	25.840	0.150000
15.900	25.610	0.150000
20.900	25.440	0.150000
25.900	25.380	0.150000
29.310	25.320	0.150000
31.810	25.270	0.150000
36.810	25.250	0.150000
41.810	25.270	0.150000
46.810	25.360	0.150000
52.520	25.570	0.150000
55.020	25.670	0.150000
60.020	25.790	0.150000
65.020	25.860	0.150000
70.020	25.910	0.150000
75.020	25.950	0.150000
80.020	26.000	0.150000
85.020	25.890	0.150000
90.020	25.830	0.150000
95.930	25.780	0.150000
98.430	25.730	0.150000
103.430	25.530	0.150000
108.430	25.300	0.150000
113.430	25.160	0.150000
118.430	25.110	0.150000
123.430	25.120	0.150000
128.430	25.380	0.150000
133.430	25.740	0.150000
139.510	26.280	0.150000
142.010	26.400	0.150000
147.010	26.540	0.150000

\* All elevations are NAVD88.

152.010	26.280	0.150000
157.010	26.050	0.150000
162.010	25.690	0.150000
167.010	25.300	0.150000
172.010	24.930	0.150000
177.010	25.000	0.150000
182.010	25.030	0.150000
187.010	25.110	0.150000
192.010	25.230	0.150000
197.010	25.340	0.150000
202.010	25.490	0.150000
205.720	25.590	0.150000
208.220	25.620	0.150000
213.220	25.620	0.150000
218.220	25.470	0.150000
223.220	25.290	0.150000
228.220	25.400	0.150000
233.220	25.620	0.150000
238.220	25.920	0.150000
243.220	26.560	0.150000
248.220	26.860	0.150000
253.220	26.930	0.150000
258.220	26.980	0.150000
263.220	27.300	0.150000
268.220	27.870	0.150000
273.220	28.330	0.150000
278.220	28.290	0.150000
283.220	27.820	0.150000
288.220	27.320	0.150000
295.220	26.600	0.150000
297.720	26.410	0.150000
302.720	25.720	0.150000
307.720	25.120	0.150000
312.720	24.880	0.150000
317.720	24.530	0.150000
322.720	24.270	0.150000
327.720	24.150	0.150000
332.720	24.150	0.150000
337.720	24.160	0.150000
342.720	24.170	0.150000
347.720	24.120	0.150000
352.720	24.080	0.150000
357.720	24.060	0.150000
362.720	24.160	0.150000
365.730	24.360	0.150000
368.230	24.620	0.150000
373.230	24.960	0.150000
380.090	25.330	0.150000
382.590	25.930	0.150000
385.110	26.590	0.150000
387.610	27.040	0.150000
392.610	27.910	0.150000
397.610	28.070	0.150000
402.610	27.840	0.150000
407.610	27.300	0.150000
414.010	26.690	0.150000
416.510	26.470	0.150000
421.510	26.070	0.150000
426.510	26.080	0.150000
431.510	26.400	0.150000
436.510	26.250	0.150000
441.510	26.130	0.150000
448.310	26.400	0.150000
450.810	26.570	0.150000
455.810	26.900	0.150000
459.330	27.060	0.150000
461.830	27.190	0.150000
466.830	27.420	0.150000
471.830	27.670	0.150000
476.830	27.850	0.150000
481.830	27.990	0.150000
486.830	28.310	0.150000
490.580	28.620	0.150000
493.080	28.640	0.150000
498.080	28.310	0.150000
503.080	27.600	0.150000
508.080	27.370	0.150000
514.660	28.200	0.150000
517.160	28.490	0.150000
522.160	28.750	0.150000
527.160	28.660	0.150000
532.160	28.550	0.150000
537.160	28.360	0.150000
542.160	28.420	0.150000
547.160	28.280	0.150000
553.020	27.680	0.150000
555.520	27.450	0.150000
560.520	27.160	0.150000
563.080	27.080	0.150000
565.580	27.010	0.150000
570.580	27.280	0.150000
575.580	27.390	0.150000

\* All elevations are NAVD88.

580.580	27.390	0.150000
585.580	27.020	0.150000
589.260	26.770	0.150000
591.760	26.550	0.150000
596.760	26.310	0.150000
601.760	26.180	0.150000
606.080	26.070	0.150000
608.580	25.990	0.150000
613.580	25.850	0.150000
618.580	25.780	0.150000
623.580	25.770	0.150000
628.580	25.540	0.150000
633.660	25.200	0.150000
636.160	25.220	0.150000
641.160	25.310	0.150000
646.160	25.350	0.150000
651.160	25.410	0.150000
656.160	25.600	0.150000
661.160	25.760	0.150000
666.160	25.840	0.150000
671.160	25.850	0.150000
676.160	25.780	0.150000
681.160	25.700	0.150000
686.160	25.610	0.150000
691.160	25.480	0.150000
697.870	25.290	0.150000
700.370	25.210	0.150000
702.920	25.140	0.150000
705.420	25.110	0.150000
710.420	25.070	0.150000
714.390	25.050	0.150000
716.890	25.030	0.150000
722.510	25.000	0.150000
725.010	24.960	0.150000
730.010	24.890	0.150000
735.010	24.820	0.150000
740.670	24.730	0.150000
743.170	24.770	0.150000
748.170	24.950	0.150000
753.170	25.070	0.150000
758.170	25.020	0.150000
763.170	24.930	0.150000
768.170	24.760	0.150000
773.170	24.600	0.150000
778.170	24.440	0.150000
783.170	24.350	0.150000
790.070	24.440	0.150000
792.570	24.480	0.150000
797.570	24.620	0.150000
802.570	24.620	0.150000
807.570	24.370	0.150000
812.570	23.980	0.150000
817.570	24.310	0.150000
822.610	24.610	0.150000
825.110	24.650	0.150000
830.110	24.750	0.150000
835.110	24.780	0.150000
839.730	24.800	0.150000
842.230	24.740	0.150000
847.230	24.580	0.150000
852.230	24.860	0.150000
858.610	25.590	0.150000
861.110	25.690	0.150000
866.110	25.870	0.150000
871.110	26.180	0.150000
876.110	26.170	0.150000
881.110	25.940	0.150000
886.110	25.690	0.150000
890.680	25.470	0.150000
893.180	25.380	0.150000
898.180	25.340	0.150000
903.180	25.390	0.150000
908.180	25.390	0.150000
915.380	25.320	0.150000
917.880	25.300	0.150000
922.880	25.400	0.150000
927.880	25.500	0.150000
932.880	25.650	0.150000
937.880	25.890	0.150000
942.880	25.930	0.150000
947.880	25.950	0.150000
952.880	26.070	0.150000
957.880	26.220	0.150000
962.880	26.220	0.150000
967.880	26.070	0.150000
972.880	26.410	0.150000
976.520	26.360	0.150000
979.020	26.410	0.150000
984.020	26.760	0.150000
989.020	27.230	0.150000
994.020	27.380	0.150000
999.020	27.480	0.150000

\* All elevations are NAVD88.

1004.020	27.390	0.150000
1009.020	27.230	0.150000
1014.020	26.990	0.150000
1019.020	26.660	0.150000
1024.020	26.110	0.150000
1029.020	25.730	0.150000
1034.020	25.370	0.150000
1039.020	24.920	0.150000
1044.020	24.630	0.150000
1049.020	25.070	0.150000
1054.020	25.620	0.150000
1059.020	26.140	0.150000
1064.020	26.150	0.150000
1069.020	26.140	0.150000
1074.020	26.040	0.150000
1079.020	26.150	0.150000
1084.020	26.220	0.150000
1089.020	25.980	0.150000
1095.760	25.780	0.150000
1098.260	25.630	0.150000
1103.260	25.360	0.150000
1108.260	25.100	0.150000
1113.260	25.170	0.150000
1118.260	25.270	0.150000
1123.260	25.280	0.150000
1128.260	25.270	0.150000
1133.260	25.220	0.150000
1138.260	25.150	0.150000
1143.260	25.110	0.150000
1148.260	25.080	0.150000
1153.310	24.970	0.150000
1155.810	24.890	0.150000
1160.810	24.760	0.150000
1165.810	24.820	0.150000
1170.810	25.170	0.150000
1175.810	25.680	0.150000
1180.810	25.940	0.150000
1185.810	26.660	0.150000
1190.810	27.230	0.150000
1195.810	27.480	0.150000
1200.810	27.690	0.150000
1205.810	27.880	0.150000
1210.810	27.840	0.150000
1215.810	27.730	0.150000
1220.810	27.700	0.150000
1225.810	27.640	0.150000
1230.650	27.390	0.150000
1233.150	27.200	0.150000
1238.150	26.810	0.150000
1243.150	26.500	0.150000
1248.150	26.030	0.150000
1253.150	26.140	0.150000
1258.150	26.300	0.150000
1263.150	26.360	0.150000
1268.150	26.770	0.150000
1273.150	27.250	0.150000
1276.580	27.210	0.150000
1279.080	26.990	0.150000
1284.080	26.640	0.150000
1289.080	26.190	0.150000
1294.080	26.000	0.150000
1299.080	26.190	0.150000
1304.080	26.240	0.150000
1309.080	26.190	0.150000
1314.080	26.160	0.150000
1319.080	26.220	0.150000
1324.080	26.310	0.150000
1329.080	26.480	0.150000
1334.080	26.520	0.150000
1339.080	26.540	0.150000
1344.080	26.670	0.150000
1349.080	26.870	0.150000
1354.080	26.900	0.150000
1358.420	26.780	0.150000
1360.920	26.840	0.150000
1365.920	27.470	0.150000
1370.920	27.430	0.150000
1375.920	27.310	0.150000
1380.920	27.330	0.150000
1385.920	27.310	0.150000
1390.920	27.220	0.150000
1395.920	27.130	0.150000
1400.920	26.850	0.150000
1405.920	27.060	0.150000
1410.360	27.100	0.150000
1412.860	27.000	0.150000
1417.860	26.650	0.150000
1422.860	26.240	0.150000
1427.860	25.770	0.150000
1432.860	25.460	0.150000
1436.430	25.310	0.150000

\* All elevations are NAVD88.

Name: WSMF7wet-06A  
 Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	26.100	0.150000
0.290	26.110	0.150000
2.790	26.320	0.150000
7.790	26.870	0.150000
12.790	27.230	0.150000
17.790	27.370	0.150000
22.790	27.520	0.150000
27.790	27.510	0.150000
32.790	27.030	0.150000
37.790	27.310	0.150000
42.790	27.870	0.150000
47.790	28.440	0.150000
52.790	28.160	0.150000
57.790	27.400	0.150000
62.790	26.710	0.150000
67.790	26.270	0.150000
72.790	26.340	0.150000
79.770	26.350	0.150000
82.270	26.290	0.150000
87.270	26.190	0.150000
92.270	26.160	0.150000
97.270	26.330	0.150000
102.270	26.410	0.150000
107.270	26.460	0.150000
112.270	26.510	0.150000
117.270	26.500	0.150000
122.270	26.340	0.150000
127.270	26.110	0.150000
132.270	26.000	0.150000
137.270	26.090	0.150000
142.270	26.090	0.150000
147.270	26.130	0.150000
152.270	26.290	0.150000
157.270	26.470	0.150000
162.270	26.630	0.150000
167.270	26.690	0.150000
172.270	26.620	0.150000
179.500	26.510	0.150000
182.000	26.450	0.150000
187.000	26.260	0.150000
192.000	26.140	0.150000
197.000	26.120	0.150000
202.000	26.580	0.150000
207.000	26.670	0.150000
212.000	26.550	0.150000
217.000	26.530	0.150000
222.000	26.530	0.150000
227.000	26.510	0.150000
232.000	26.480	0.150000
237.000	26.630	0.150000
242.000	27.300	0.150000
247.000	27.940	0.150000
252.000	28.380	0.150000
254.880	28.350	0.150000
257.380	28.200	0.150000
262.380	27.910	0.150000
267.380	27.820	0.150000
272.380	27.650	0.150000
277.380	27.410	0.150000
282.380	27.370	0.150000
287.380	27.170	0.150000
292.380	26.310	0.150000
297.380	25.890	0.150000
302.380	25.730	0.150000
307.380	25.720	0.150000
312.380	25.790	0.150000
317.380	25.750	0.150000
322.380	25.840	0.150000
327.380	26.050	0.150000
332.380	26.310	0.150000
337.380	26.730	0.150000
341.060	27.040	0.150000
343.560	27.120	0.150000
348.560	27.380	0.150000
353.560	27.740	0.150000
358.560	28.260	0.150000
363.560	28.580	0.150000
368.560	28.400	0.150000
373.560	27.970	0.150000
378.560	27.460	0.150000
383.560	27.110	0.150000
388.560	26.730	0.150000
393.560	26.310	0.150000
398.560	26.030	0.150000

\* All elevations are NAVD88.



403.560	25.930	0.150000
408.560	26.030	0.150000
413.560	26.160	0.150000
416.420	26.230	0.150000
418.920	26.290	0.150000
423.920	26.400	0.150000
428.920	26.520	0.150000
433.910	26.570	0.150000
438.920	26.550	0.150000
445.720	26.450	0.150000
448.220	26.470	0.150000

Name: WSouth-OFFSITE

Group: BASE

Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
19.250	25.470	0.150000
24.070	25.040	0.150000
28.880	24.990	0.150000
33.690	25.290	0.150000
38.510	25.430	0.150000
43.320	25.450	0.150000
48.060	25.450	0.150000
52.790	25.560	0.150000
57.530	25.610	0.150000
61.870	25.550	0.150000
66.220	25.470	0.150000
70.560	25.500	0.150000
75.120	25.570	0.150000
473.700	25.360	0.150000
478.510	25.300	0.150000
483.320	25.420	0.150000
528.440	25.520	0.150000
533.260	25.440	0.150000
538.080	25.350	0.150000
542.930	25.390	0.150000
547.790	25.450	0.150000
552.650	25.450	0.150000
557.510	25.500	0.150000
562.360	25.250	0.150000
566.430	25.100	0.150000
570.490	24.950	0.150000
574.560	24.970	0.150000
578.620	24.980	0.150000
582.690	25.010	0.150000
587.130	25.020	0.150000
591.570	25.120	0.150000
596.020	25.290	0.150000
600.460	25.450	0.150000
604.900	25.610	0.150000
614.210	25.560	0.150000
619.070	25.430	0.150000
623.930	25.300	0.150000
628.790	25.170	0.150000
633.650	25.050	0.150000
638.510	25.060	0.150000
643.360	25.230	0.150000
648.220	25.170	0.150000
653.080	25.060	0.150000
657.940	25.480	0.150000
766.400	25.610	0.150000
771.200	25.310	0.150000
776.000	25.300	0.150000
780.800	25.480	0.150000
785.600	25.550	0.150000
789.900	25.470	0.150000
794.190	25.350	0.150000
798.490	25.240	0.150000
802.930	25.170	0.150000
807.360	25.070	0.150000
811.800	25.040	0.150000
816.230	25.100	0.150000
820.670	25.240	0.150000
825.110	25.410	0.150000
903.280	25.610	0.150000
907.960	25.410	0.150000
912.640	25.260	0.150000
917.320	25.090	0.150000
922.000	24.930	0.150000
926.680	24.900	0.150000
930.160	24.900	0.150000
933.630	24.920	0.150000
937.110	24.930	0.150000
941.600	25.010	0.150000
946.090	25.110	0.150000
950.580	25.260	0.150000
955.070	25.420	0.150000
959.560	25.490	0.150000

\* All elevations are NAVD88.

964.220	25.430	0.150000
968.880	25.320	0.150000
973.540	25.350	0.150000
977.140	25.410	0.150000
980.740	25.350	0.150000
984.330	25.240	0.150000
988.820	25.230	0.150000
993.310	25.200	0.150000
997.800	25.200	0.150000
1002.290	25.180	0.150000
1006.780	25.150	0.150000
1011.640	25.120	0.150000
1016.490	25.300	0.150000
1021.350	25.560	0.150000
1026.200	25.600	0.150000
1031.060	25.500	0.150000
1035.910	25.370	0.150000
1040.770	25.390	0.150000
1045.650	25.310	0.150000
1050.540	25.240	0.150000
1055.430	25.270	0.150000
1060.320	25.330	0.150000
1065.200	25.420	0.150000
1070.090	25.340	0.150000
1074.980	25.380	0.150000
1079.430	25.360	0.150000
1083.890	25.310	0.150000
1088.340	25.270	0.150000
1092.800	25.290	0.150000
1097.220	25.390	0.150000
1101.650	25.450	0.150000
1106.070	25.480	0.150000
1110.490	25.500	0.150000
1114.920	25.440	0.150000
1119.340	25.360	0.150000
1123.760	25.280	0.150000
1128.230	25.190	0.150000
1132.700	25.080	0.150000
1137.160	24.990	0.150000
1141.630	24.910	0.150000
1146.100	25.020	0.150000
1150.570	25.190	0.150000
1154.870	25.340	0.150000
1159.170	25.510	0.150000
1163.470	25.610	0.150000
1172.230	25.470	0.150000
1176.700	25.200	0.150000
1181.170	24.970	0.150000
1185.630	24.860	0.150000
1190.310	24.800	0.150000
1195.000	24.850	0.150000
1198.490	24.890	0.150000
1201.990	25.050	0.150000
1205.480	25.230	0.150000
1209.630	25.260	0.150000
1213.780	25.280	0.150000
1217.930	25.060	0.150000
1222.890	24.940	0.150000
1227.850	24.850	0.150000
1231.720	24.820	0.150000
1235.590	24.830	0.150000
1239.460	24.850	0.150000
1243.260	24.890	0.150000
1247.050	24.920	0.150000
1250.850	25.090	0.150000
1254.640	25.380	0.150000
1271.590	25.550	0.150000
1275.710	25.540	0.150000
1279.830	25.600	0.150000
1736.720	25.610	0.150000
1741.150	25.540	0.150000
1745.580	25.510	0.150000
1750.000	25.520	0.150000
1754.660	25.560	0.150000
1788.170	25.600	0.150000
1793.130	25.540	0.150000
1798.040	25.520	0.150000
1802.960	25.540	0.150000
1807.870	25.570	0.150000
1859.550	25.500	0.150000
1863.740	25.410	0.150000
1867.940	25.350	0.150000
1872.140	25.330	0.150000
1876.340	25.320	0.150000
1880.540	25.310	0.150000
1884.730	25.320	0.150000
1889.680	25.320	0.150000
1894.620	25.330	0.150000
1899.570	25.420	0.150000
1903.560	25.490	0.150000
1907.550	25.470	0.150000
1911.540	25.610	0.150000

\* All elevations are NAVD88.

1947.550	25.410	0.150000
1951.760	25.290	0.150000
1955.960	25.260	0.150000
1960.170	25.240	0.150000
2009.940	25.530	0.150000
2014.750	25.410	0.150000
2019.570	25.390	0.150000
2024.380	25.280	0.150000
2029.200	25.120	0.150000
2034.020	25.000	0.150000
2038.830	24.930	0.150000
2043.650	24.860	0.150000
2048.320	24.830	0.150000
2052.990	24.780	0.150000
2057.660	24.790	0.150000
2062.330	24.790	0.150000
2067.000	24.850	0.150000
2071.670	24.950	0.150000
2076.340	25.020	0.150000
2081.010	24.980	0.150000
2085.440	24.950	0.150000
2089.870	24.860	0.150000
2094.290	24.770	0.150000
2098.720	24.690	0.150000
2103.210	24.680	0.150000
2107.700	24.680	0.150000
2112.190	24.680	0.150000
2116.690	24.690	0.150000
2121.180	24.720	0.150000
2125.670	24.780	0.150000
2130.160	24.990	0.150000
2134.650	25.320	0.150000
2139.150	25.450	0.150000
2143.570	25.170	0.150000
2148.000	24.950	0.150000
2152.420	24.930	0.150000
2156.850	24.850	0.150000
2161.580	24.790	0.150000
2166.310	24.750	0.150000
2171.040	24.740	0.150000
2175.770	24.830	0.150000
2180.500	25.040	0.150000
2185.230	25.230	0.150000
2189.840	25.220	0.150000
2194.440	24.800	0.150000
2199.050	24.700	0.150000
2203.650	24.750	0.150000
2208.260	24.710	0.150000
2212.860	24.750	0.150000
2217.470	24.840	0.150000
2222.070	24.940	0.150000
2226.860	25.000	0.150000
2231.650	25.060	0.150000
2236.440	25.130	0.150000
2241.230	25.510	0.150000
2317.920	25.580	0.150000
2322.730	25.520	0.150000
2327.530	25.460	0.150000
2332.340	25.410	0.150000
2337.150	25.360	0.150000
2341.950	25.310	0.150000
2346.760	25.280	0.150000
2351.560	25.280	0.150000
2356.370	25.300	0.150000
2361.170	25.340	0.150000
2365.980	25.370	0.150000
2370.780	25.420	0.150000
2375.590	25.470	0.150000
2400.560	25.610	0.150000
2405.560	25.360	0.150000
2410.480	25.320	0.150000
2415.400	25.350	0.150000
2420.330	25.350	0.150000
2425.250	25.350	0.150000
2430.170	25.350	0.150000
2435.100	25.360	0.150000
2440.020	25.370	0.150000
2444.210	25.380	0.150000
2448.390	25.390	0.150000
2452.580	25.410	0.150000
2456.770	25.410	0.150000
2460.960	25.420	0.150000
2465.270	25.390	0.150000
2469.590	25.350	0.150000
2473.900	25.320	0.150000
2478.220	25.300	0.150000
2482.530	25.290	0.150000
2486.840	25.290	0.150000
2491.160	25.280	0.150000
2496.090	25.260	0.150000
2501.010	25.250	0.150000
2505.940	25.270	0.150000

\* All elevations are NAVD88.

2510.870	25.300	0.150000
2515.800	25.310	0.150000
2520.720	25.280	0.150000
2525.690	25.240	0.150000
2530.650	25.180	0.150000
2535.620	25.100	0.150000
2540.580	25.010	0.150000
2545.550	24.920	0.150000
2550.510	24.850	0.150000
2555.480	24.800	0.150000
2560.440	24.750	0.150000
2565.400	24.710	0.150000
2570.370	24.670	0.150000
2575.330	24.640	0.150000
2580.300	24.620	0.150000
2585.030	24.630	0.150000
2589.760	24.660	0.150000
2594.500	24.740	0.150000
2599.230	24.820	0.150000
2603.960	25.190	0.150000
2608.690	25.370	0.150000
2613.430	25.210	0.150000
2618.160	25.060	0.150000
2622.650	25.070	0.150000
2627.130	25.100	0.150000
2631.620	25.210	0.150000
2636.110	25.430	0.150000
2666.870	25.510	0.150000
2671.200	25.470	0.150000
2675.520	25.490	0.150000
2679.570	25.510	0.150000
2683.630	25.560	0.150000
2736.540	25.520	0.150000
2741.220	25.460	0.150000
2745.890	25.410	0.150000
2750.570	25.380	0.150000
2755.250	25.350	0.150000
2759.920	25.330	0.150000
2764.600	25.290	0.150000
2769.270	25.260	0.150000
2773.870	25.220	0.150000
2778.460	25.180	0.150000
2783.060	25.140	0.150000
2787.650	25.120	0.150000
2792.250	25.100	0.150000
2796.840	25.080	0.150000
2801.440	25.060	0.150000
2806.030	25.040	0.150000
2810.630	25.030	0.150000
2815.220	25.020	0.150000
2819.820	25.020	0.150000
2824.410	25.030	0.150000
2828.950	25.040	0.150000
2833.480	25.070	0.150000
2838.010	25.110	0.150000
2842.540	25.180	0.150000
2847.290	25.240	0.150000
2852.040	25.470	0.150000
2879.450	25.420	0.150000
2883.830	25.190	0.150000
2888.220	25.060	0.150000
2892.600	24.950	0.150000
2896.990	24.870	0.150000
2901.370	24.800	0.150000
2906.000	24.770	0.150000
2910.630	24.760	0.150000
2915.260	24.770	0.150000
2919.890	24.780	0.150000
2924.090	24.820	0.150000
2928.280	24.950	0.150000
2932.480	25.130	0.150000
2936.670	25.210	0.150000
2940.590	25.120	0.150000
2944.520	24.990	0.150000
2948.440	24.840	0.150000
2952.360	24.750	0.150000
2957.040	24.760	0.150000
2961.730	24.770	0.150000
2966.420	24.830	0.150000
2971.100	24.900	0.150000
2975.790	25.000	0.150000
2979.750	25.250	0.150000
2983.710	25.390	0.150000
2987.680	25.390	0.150000
2991.640	25.280	0.150000
2996.520	25.150	0.150000
3001.400	25.030	0.150000
3006.290	24.920	0.150000
3011.170	24.830	0.150000
3016.050	24.780	0.150000
3020.940	24.800	0.150000
3025.820	24.790	0.150000

\* All elevations are NAVD88.

3030.700	24.800	0.150000
3035.590	24.800	0.150000
3040.400	24.800	0.150000
3045.220	24.790	0.150000
3050.040	24.780	0.150000
3054.850	24.780	0.150000
3059.670	24.780	0.150000
3064.490	24.780	0.150000
3069.310	24.790	0.150000
3074.120	24.800	0.150000
3078.930	24.800	0.150000
3083.750	24.790	0.150000
3088.560	24.790	0.150000
3093.370	24.800	0.150000
3098.180	24.800	0.150000
3102.990	24.840	0.150000
3107.800	24.880	0.150000
3112.620	24.900	0.150000
3117.430	24.900	0.150000
3122.240	24.900	0.150000
3127.050	24.900	0.150000
3131.580	24.890	0.150000
3136.120	24.900	0.150000
3140.650	24.900	0.150000
3145.190	24.890	0.150000
3149.720	24.910	0.150000
3154.630	24.990	0.150000
3159.540	25.090	0.150000
3164.450	25.170	0.150000
3169.370	25.270	0.150000
3174.280	25.430	0.150000
3179.640	25.360	0.150000
3202.150	25.370	0.150000
3206.670	25.430	0.150000
3211.180	25.540	0.150000
3224.980	25.550	0.150000
3229.760	25.450	0.150000
3234.540	25.350	0.150000
3239.310	25.280	0.150000
3243.730	25.230	0.150000
3248.160	25.190	0.150000
3252.580	25.160	0.150000
3257.010	25.150	0.150000
3261.430	25.150	0.150000
3265.860	25.170	0.150000
3270.280	25.180	0.150000
3274.840	25.160	0.150000
3279.390	25.150	0.150000
3283.950	25.140	0.150000
3288.500	25.140	0.150000
3292.930	25.150	0.150000
3297.360	25.160	0.150000
3301.790	25.160	0.150000
3306.660	25.150	0.150000
3311.520	25.130	0.150000
3316.390	25.110	0.150000
3321.260	25.080	0.150000
3326.120	25.060	0.150000
3330.990	25.040	0.150000
3335.880	25.010	0.150000
3340.770	24.990	0.150000
3345.660	24.960	0.150000
3350.550	24.930	0.150000
3355.440	24.910	0.150000
3360.330	24.930	0.150000
3365.220	24.980	0.150000
3370.110	25.250	0.150000
3375.000	25.330	0.150000
3379.230	25.240	0.150000
3383.460	25.170	0.150000
3387.690	25.170	0.150000
3391.920	25.240	0.150000
3396.140	25.450	0.150000
3400.370	25.500	0.150000
3405.110	25.390	0.150000
3409.840	25.300	0.150000
3414.580	25.280	0.150000
3418.800	25.370	0.150000
3423.020	25.510	0.150000
3481.310	25.300	0.150000
3485.850	25.130	0.150000
3490.390	25.140	0.150000
3494.930	25.240	0.150000
3498.610	25.360	0.150000
3502.290	25.470	0.150000
3505.980	25.540	0.150000
3510.100	25.540	0.150000
3514.220	25.490	0.150000
3518.340	25.610	0.150000
3522.460	25.530	0.150000
3526.580	25.490	0.150000
3530.610	25.470	0.150000

\* All elevations are NAVD88.

3534.650	25.440	0.150000
3538.690	25.180	0.150000
3543.320	25.120	0.150000
3547.960	25.270	0.150000
3552.590	25.440	0.150000
3557.230	25.420	0.150000
3561.760	25.310	0.150000
3566.280	25.240	0.150000
3570.810	25.220	0.150000
3575.340	25.330	0.150000
3579.600	25.250	0.150000
3583.860	25.090	0.150000
3588.110	25.230	0.150000
3593.040	25.370	0.150000
3597.970	25.390	0.150000
3602.900	25.360	0.150000
3607.830	25.360	0.150000
3612.800	25.210	0.150000
3617.770	24.950	0.150000
3622.740	24.800	0.150000
3627.710	24.800	0.150000
3632.680	24.940	0.150000
3637.640	25.130	0.150000
3642.610	25.600	0.150000
3757.350	25.440	0.150000
3761.650	25.220	0.150000
3765.940	25.420	0.150000
3815.980	25.570	0.150000
3820.540	25.430	0.150000
3825.090	25.350	0.150000
3829.650	25.190	0.150000
3834.440	25.220	0.150000
3839.220	25.300	0.150000
3844.010	25.400	0.150000
3848.790	25.490	0.150000
3853.580	25.510	0.150000
3858.370	25.500	0.150000
3863.150	25.580	0.150000
4063.660	25.460	0.150000
4068.540	25.330	0.150000
4073.420	25.340	0.150000
4078.290	25.260	0.150000
4083.170	25.140	0.150000
4088.050	25.030	0.150000
4092.920	24.990	0.150000
4097.800	25.000	0.150000
4102.680	25.030	0.150000
4107.560	25.080	0.150000
4112.260	25.120	0.150000
4116.970	25.180	0.150000
4121.670	25.240	0.150000
4126.380	25.310	0.150000
4131.080	25.380	0.150000
4135.790	25.430	0.150000
4140.500	25.490	0.150000
4145.200	25.550	0.150000
4149.910	25.610	0.150000

=====  
 === Pipes =====  
 =====

Name: P01A-01B	From Node: NB01A	Length(ft): 110.00
Group: BASE	To Node: NB01B	Count: 5
UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Horz Ellipse	Horz Ellipse	Solution Algorithm: Automatic
Span(in): 30.00	30.00	Flow: Both
Rise(in): 19.00	19.00	Entrance Loss Coef: 0.50
Invert(ft): 24.360	24.160	Exit Loss Coef: 1.00
Manning's N: 0.013000	0.013000	Bend Loss Coef: 0.00
Top Clip(in): 0.000	0.000	Outlet Ctrl Spec: Use dc or tw
Bot Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
		Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
 Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
 Horizontal Ellipse Concrete: Square edge with headwall

Name: P01A-South	From Node: NBSouth	Length(ft): 67.00
Group: BASE	To Node: NB01A	Count: 1
UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Rectangular	Rectangular	Solution Algorithm: Automatic
Span(in): 72.00	72.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.20
		Exit Loss Coef: 1.00

\* All elevations are NAVD88.

Invert(ft): 23.260	22.720	Bend Loss Coef: 0.00
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
 Rectangular Box: 45° wingwall flare d=.043D

Downstream FHWA Inlet Edge Description:  
 Rectangular Box: 45° wingwall flare d=.043D

```

-----
Name: P01B-OFFSITE      From Node: NB01B      Length(ft): 262.00
Group: BASE             To Node: NOFFSITE    Count: 1
                        Friction Equation: Average Conveyance
                        Solution Algorithm: Automatic
                        Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Circular      Circular
Span(in): 36.00         36.00
Rise(in): 36.00         36.00
Invert(ft): 22.210     22.030
Manning's N: 0.013000  0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
                        Entrance Loss Coef: 0.50
                        Exit Loss Coef: 1.00
                        Bend Loss Coef: 0.00
                        Outlet Ctrl Spec: Use dc or tw
                        Inlet Ctrl Spec: Use dn
                        Stabilizer Option: None
    
```

Upstream FHWA Inlet Edge Description:  
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
 Circular Concrete: Square edge w/ headwall

Updated based on revised CAD survey named "topord01.dwg"

```

-----
Name: P03A-03B          From Node: NB03A      Length(ft): 110.00
Group: BASE             To Node: NB03B      Count: 4
                        Friction Equation: Average Conveyance
                        Solution Algorithm: Automatic
                        Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Horz Ellipse  Horz Ellipse
Span(in): 30.00         30.00
Rise(in): 19.00         19.00
Invert(ft): 24.060     23.860
Manning's N: 0.013000  0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
                        Entrance Loss Coef: 0.50
                        Exit Loss Coef: 1.00
                        Bend Loss Coef: 0.00
                        Outlet Ctrl Spec: Use dc or tw
                        Inlet Ctrl Spec: Use dn
                        Stabilizer Option: None
    
```

Upstream FHWA Inlet Edge Description:  
 Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
 Horizontal Ellipse Concrete: Square edge with headwall

```

-----
Name: P04A-04B          From Node: NB04A      Length(ft): 110.00
Group: BASE             To Node: NB04B      Count: 2
                        Friction Equation: Average Conveyance
                        Solution Algorithm: Automatic
                        Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Rectangular   Rectangular
Span(in): 48.00         48.00
Rise(in): 24.00         24.00
Invert(ft): 22.410     22.160
Manning's N: 0.013000  0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
                        Entrance Loss Coef: 0.50
                        Exit Loss Coef: 1.00
                        Bend Loss Coef: 0.00
                        Outlet Ctrl Spec: Use dc or tw
                        Inlet Ctrl Spec: Use dn
                        Stabilizer Option: None
    
```

Upstream FHWA Inlet Edge Description:  
 Rectangular Box: 30° to 75° wingwall flares

Downstream FHWA Inlet Edge Description:  
 Rectangular Box: 30° to 75° wingwall flares

```

-----
Name: P04C-OFFSITE      From Node: NB04C      Length(ft): 290.00
Group: BASE             To Node: NOFFSITE    Count: 1
                        Friction Equation: Average Conveyance
                        Solution Algorithm: Automatic
                        Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Rectangular   Rectangular
Span(in): 84.00         84.00
Rise(in): 60.00         60.00
                        Entrance Loss Coef: 0.50
                        Exit Loss Coef: 1.00
    
```

\* All elevations are NAVD88.

Invert(ft): 20.910	20.950	Bend Loss Coef: 0.00
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Rectangular Box: 90° headwall w/ 3/4" chamfers

Downstream FHWA Inlet Edge Description:  
Rectangular Box: 90° headwall w/ 3/4" chamfers

Updated based on revised CAD survey named "topord01.dwg"

```

-----
Name: P05A-CHLAKE15      From Node: NB05A      Length(ft): 24.00
Group: BASE              To Node: NCH-Lake15  Count: 1
                          Friction Equation: Average Conveyance
                          Solution Algorithm: Automatic
                          Flow: Positive
                          Entrance Loss Coef: 0.50
                          Exit Loss Coef: 1.00
                          Bend Loss Coef: 0.00
                          Outlet Ctrl Spec: Use dc or tw
                          Inlet Ctrl Spec: Use dn
                          Stabilizer Option: None

      UPSTREAM          DOWNSTREAM
Geometry: Circular      Circular
Span(in): 24.00         24.00
Rise(in): 24.00         24.00
Invert(ft): 23.820     23.510
Manning's N: 0.013000  0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
    
```

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Flap gate on downstream end of pipe

```

-----
Name: P06A-06B          From Node: NB06A      Length(ft): 110.00
Group: BASE             To Node: NB06B      Count: 2
                          Friction Equation: Average Conveyance
                          Solution Algorithm: Automatic
                          Flow: Both
                          Entrance Loss Coef: 0.50
                          Exit Loss Coef: 1.00
                          Bend Loss Coef: 0.00
                          Outlet Ctrl Spec: Use dc or tw
                          Inlet Ctrl Spec: Use dn
                          Stabilizer Option: None

      UPSTREAM          DOWNSTREAM
Geometry: Horz Ellipse  Horz Ellipse
Span(in): 30.00         30.00
Rise(in): 19.00         19.00
Invert(ft): 23.860     23.660
Manning's N: 0.013000  0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
    
```

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

```

-----
Name: P06B-OFFSITE      From Node: NB06B      Length(ft): 273.00
Group: BASE             To Node: NOFFSITE    Count: 1
                          Friction Equation: Average Conveyance
                          Solution Algorithm: Automatic
                          Flow: Both
                          Entrance Loss Coef: 0.50
                          Exit Loss Coef: 1.00
                          Bend Loss Coef: 0.00
                          Outlet Ctrl Spec: Use dc or tw
                          Inlet Ctrl Spec: Use dn
                          Stabilizer Option: None

      UPSTREAM          DOWNSTREAM
Geometry: Circular      Circular
Span(in): 24.00         24.00
Rise(in): 24.00         24.00
Invert(ft): 23.330     23.420
Manning's N: 0.013000  0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
    
```

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Updated based on revised CAD survey named "topord01.dwg"

```

-----
Name: P07D-OFFSITE      From Node: NB07D      Length(ft): 326.00
Group: BASE             To Node: NOFFSITE    Count: 2
                          Friction Equation: Average Conveyance
                          Solution Algorithm: Automatic
                          Flow: Both
                          Entrance Loss Coef: 0.50
                          Exit Loss Coef: 1.00

      UPSTREAM          DOWNSTREAM
Geometry: Circular      Circular
Span(in): 24.00         24.00
Rise(in): 24.00         24.00
    
```

\* All elevations are NAVD88.



Invert(ft): 23.060	22.680	Bend Loss Coef: 0.00
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Updated based on revised CAD survey named "topord01.dwg"

```

-----
Name: P07E-07D          From Node: NB07E          Length(ft): 110.00
Group: BASE             To Node: NB07D             Count: 2
                        Friction Equation: Average Conveyance
                        Solution Algorithm: Automatic
                        Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Horz Ellipse  Horz Ellipse
Span(in): 30.00         30.00
Rise(in): 19.00         19.00
Invert(ft): 24.360     24.060
Manning's N: 0.013000  0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
                        Entrance Loss Coef: 0.50
                        Exit Loss Coef: 1.00
                        Bend Loss Coef: 0.00
                        Outlet Ctrl Spec: Use dc or tw
                        Inlet Ctrl Spec: Use dn
                        Stabilizer Option: None
    
```

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

```

-----
Name: P08A-08B          From Node: NB08A          Length(ft): 110.00
Group: BASE             To Node: NB08B             Count: 2
                        Friction Equation: Average Conveyance
                        Solution Algorithm: Automatic
                        Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Circular      Circular
Span(in): 18.00         18.00
Rise(in): 18.00         18.00
Invert(ft): 23.610     23.360
Manning's N: 0.013000  0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
                        Entrance Loss Coef: 0.50
                        Exit Loss Coef: 1.00
                        Bend Loss Coef: 0.00
                        Outlet Ctrl Spec: Use dc or tw
                        Inlet Ctrl Spec: Use dn
                        Stabilizer Option: None
    
```

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

```

-----
Name: P08B-DEPR          From Node: NB08B          Length(ft): 275.00
Group: BASE             To Node: NDEPR             Count: 1
                        Friction Equation: Average Conveyance
                        Solution Algorithm: Automatic
                        Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Circular      Circular
Span(in): 36.00         36.00
Rise(in): 36.00         36.00
Invert(ft): 21.400     20.850
Manning's N: 0.013000  0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
                        Entrance Loss Coef: 0.50
                        Exit Loss Coef: 1.00
                        Bend Loss Coef: 0.00
                        Outlet Ctrl Spec: Use dc or tw
                        Inlet Ctrl Spec: Use dn
                        Stabilizer Option: None
    
```

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Updated based on revised CAD survey named "topord01.dwg"

```

-----
Name: P09A-09B          From Node: NB09A          Length(ft): 110.00
Group: BASE             To Node: NB09B             Count: 1
                        Friction Equation: Average Conveyance
                        Solution Algorithm: Automatic
                        Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Horz Ellipse  Horz Ellipse
Span(in): 30.00         30.00
Rise(in): 19.00         19.00
                        Entrance Loss Coef: 0.50
                        Exit Loss Coef: 1.00
    
```

\* All elevations are NAVD88.

Invert(ft): 23.910	23.710	Bend Loss Coef: 0.00
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

```

-----
Name: P11A-11B          From Node: NB11A          Length(ft): 110.00
Group: BASE             To Node: NB11B            Count: 2
                          Friction Equation: Average Conveyance
                          Solution Algorithm: Automatic
                          Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Horz Ellipse  Horz Ellipse
Span(in): 38.00        38.00
Rise(in): 24.00        24.00
Invert(ft): 21.660    21.510
Manning's N: 0.013000 0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
                          Entrance Loss Coef: 0.50
                          Exit Loss Coef: 1.00
                          Bend Loss Coef: 0.00
                          Outlet Ctrl Spec: Use dc or tw
                          Inlet Ctrl Spec: Use dn
                          Stabilizer Option: None
    
```

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

```

-----
Name: P14-15           From Node: NB14          Length(ft): 470.00
Group: BASE            To Node: NB15            Count: 1
                          Friction Equation: Average Conveyance
                          Solution Algorithm: Automatic
                          Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Circular      Circular
Span(in): 18.00         18.00
Rise(in): 18.00         18.00
Invert(ft): 21.600    20.620
Manning's N: 0.013000 0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
                          Entrance Loss Coef: 0.50
                          Exit Loss Coef: 1.00
                          Bend Loss Coef: 0.00
                          Outlet Ctrl Spec: Use dc or tw
                          Inlet Ctrl Spec: Use dn
                          Stabilizer Option: None
    
```

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Inputs from Model in Bound report AshtonLake Ph3-4 April 2002  
Inverts from AsBuilts in ERP 186232 AshtonLakes Ph3-4

```

-----
Name: P15-19           From Node: NB15          Length(ft): 440.00
Group: BASE            To Node: NB19            Count: 1
                          Friction Equation: Average Conveyance
                          Solution Algorithm: Automatic
                          Flow: Both
UPSTREAM                DOWNSTREAM
Geometry: Horz Ellipse  Horz Ellipse
Span(in): 38.00        38.00
Rise(in): 24.00        24.00
Invert(ft): 20.360    19.340
Manning's N: 0.013000 0.013000
Top Clip(in): 0.000    0.000
Bot Clip(in): 0.000    0.000
                          Entrance Loss Coef: 0.50
                          Exit Loss Coef: 1.00
                          Bend Loss Coef: 0.00
                          Outlet Ctrl Spec: Use dc or tw
                          Inlet Ctrl Spec: Use dn
                          Stabilizer Option: None
    
```

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Inputs from Model in Bound report AshtonLake Ph3-4 April 2002  
Inverts from AsBuilts in ERP 186232 AshtonLakes Ph3-4

```

-----
Name: P16-17           From Node: NB16          Length(ft): 330.00
Group: BASE            To Node: NB17            Count: 1
                          Friction Equation: Average Conveyance
                          Solution Algorithm: Automatic
UPSTREAM                DOWNSTREAM
    
```

\* All elevations are NAVD88.

Geometry: Horz Ellipse	Horz Ellipse	Flow: Both
Span(in): 45.00	45.00	Entrance Loss Coef: 0.50
Rise(in): 29.00	29.00	Exit Loss Coef: 1.00
Invert(ft): 19.900	19.240	Bend Loss Coef: 0.00
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	Stabilizer Option: None

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Inputs from Model in Bound report AshtonLake Ph3-4 April 2002  
Inverts from AsBuilt info in ERP 29706-AshtonLakes Ph1-2

```
-----
Name: P17-18          From Node: NB17          Length(ft): 80.00
Group: BASE          To Node: NB18          Count: 1
Friction Equation: Average Conveyance
Solution Algorithm: Automatic
Flow: Both
Entrance Loss Coef: 0.50
Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dn
Stabilizer Option: None

UPSTREAM      DOWNSTREAM
Geometry: Horz Ellipse  Horz Ellipse
Span(in): 45.00      45.00
Rise(in): 29.00      29.00
Invert(ft): 17.400   17.160
Manning's N: 0.013000 0.013000
Top Clip(in): 0.000   0.000
Bot Clip(in): 0.000   0.000
```

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Inputs from Model in Bound report AshtonLake Ph3-4 April 2002  
Inverts from AsBuilt info in ERP 29706-AshtonLakes Ph1-2

```
-----
Name: P18-19          From Node: NB18          Length(ft): 120.00
Group: BASE          To Node: NB19          Count: 1
Friction Equation: Average Conveyance
Solution Algorithm: Automatic
Flow: Both
Entrance Loss Coef: 0.50
Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dn
Stabilizer Option: None

UPSTREAM      DOWNSTREAM
Geometry: Horz Ellipse  Horz Ellipse
Span(in): 45.00      45.00
Rise(in): 29.00      29.00
Invert(ft): 19.900   19.540
Manning's N: 0.013000 0.013000
Top Clip(in): 0.000   0.000
Bot Clip(in): 0.000   0.000
```

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Inputs from Model in Bound report AshtonLake Ph3-4 April 2002  
Inverts from AsBuilt info in ERP 29706-AshtonLakes Ph1-2

==== Drop Structures =====

```
-----
Name: DS13-16        From Node: NB13          Length(ft): 340.00
Group: BASE          To Node: NB16          Count: 1
Friction Equation: Average Conveyance
Solution Algorithm: Automatic
Flow: Both
Entrance Loss Coef: 0.500
Exit Loss Coef: 1.000
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dn
Solution Incs: 10

UPSTREAM      DOWNSTREAM
Geometry: Horz Ellipse  Horz Ellipse
Span(in): 30.00      30.00
Rise(in): 19.00      19.00
Invert(ft): 20.100   19.400
Manning's N: 0.013000 0.013000
Top Clip(in): 0.000   0.000
Bot Clip(in): 0.000   0.000
```

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Inputs from Model in Bound report AshtonLake Ph3-4 April 2002  
Inverts from AsBuilt info in ERP 29706-AshtonLakes Ph1-2

\* All elevations are NAVD88.

\*\*\* Weir 1 of 1 for Drop Structure DS13-16 \*\*\*

TABLE

Count: 1 Bottom Clip(in): 0.000  
 Type: Vertical: Mavis Top Clip(in): 0.000  
 Flow: Both Weir Disc Coef: 3.200  
 Geometry: Rectangular Orifice Disc Coef: 0.600  
 Span(in): 120.00 Invert(ft): 21.300  
 Rise(in): 31.00 Control Elev(ft): 21.300

-----  
 Name: DS19-OFFSITE-W From Node: NB19 Length(ft): 50.00  
 Group: BASE To Node: NOFFSITE-W Count: 1  
 UPSTREAM DOWNSTREAM Friction Equation: Average Conveyance  
 Geometry: Circular Circular Solution Algorithm: Automatic  
 Span(in): 30.00 30.00 Flow: Both  
 Rise(in): 30.00 30.00 Entrance Loss Coef: 0.500  
 Invert(ft): 19.900 19.700 Exit Loss Coef: 1.000  
 Manning's N: 0.013000 0.013000 Outlet Ctrl Spec: Use dc or tw  
 Top Clip(in): 0.000 0.000 Inlet Ctrl Spec: Use dn  
 Bot Clip(in): 0.000 0.000 Solution Incs: 10

Upstream FHWA Inlet Edge Description:  
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
 Circular Concrete: Square edge w/ headwall

Inputs from Model in Bound report AshtonLake Ph3-4 April 2002  
 And Control Structure modifications from AsBuilts in ERP 186232 AshtonLakes Ph3-4

\*\*\* Weir 1 of 2 for Drop Structure DS19-OFFSITE-W \*\*\*

TABLE

Count: 1 Bottom Clip(in): 0.000  
 Type: Vertical: Mavis Top Clip(in): 0.000  
 Flow: Both Weir Disc Coef: 3.200  
 Geometry: Rectangular Orifice Disc Coef: 0.600  
 Span(in): 48.00 Invert(ft): 21.660  
 Rise(in): 9999.00 Control Elev(ft): 21.660

\*\*\* Weir 2 of 2 for Drop Structure DS19-OFFSITE-W \*\*\*

TABLE

Count: 1 Bottom Clip(in): 0.000  
 Type: Vertical: Mavis Top Clip(in): 0.000  
 Flow: Both Weir Disc Coef: 3.200  
 Geometry: Circular Orifice Disc Coef: 0.600  
 Span(in): 7.50 Invert(ft): 19.900  
 Rise(in): 7.50 Control Elev(ft): 19.900

-----  
 Name: DSALPOND1-11B From Node: NALPOND1 Length(ft): 482.00  
 Group: BASE To Node: NB11B Count: 1  
 UPSTREAM DOWNSTREAM Friction Equation: Average Conveyance  
 Geometry: Circular Circular Solution Algorithm: Automatic  
 Span(in): 36.00 36.00 Flow: Both  
 Rise(in): 36.00 36.00 Entrance Loss Coef: 0.500  
 Invert(ft): 22.650 22.400 Exit Loss Coef: 1.000  
 Manning's N: 0.013000 0.013000 Outlet Ctrl Spec: Use dc or tw  
 Top Clip(in): 0.000 0.000 Inlet Ctrl Spec: Use dn  
 Bot Clip(in): 0.000 0.000 Solution Incs: 10

Upstream FHWA Inlet Edge Description:  
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
 Circular Concrete: Square edge w/ headwall

Inputs from Model in ERP 662914 BoundReport\_AshtonLakesApts\_revJan2001  
 and ERP 22915 4\_AshtonLakesApts\_Drawings

\*\*\* Weir 1 of 1 for Drop Structure DSALPOND1-11B \*\*\*

TABLE

Count: 1 Bottom Clip(in): 0.000  
 Type: Vertical: Mavis Top Clip(in): 0.000  
 Flow: Both Weir Disc Coef: 3.200  
 Geometry: Rectangular Orifice Disc Coef: 0.600  
 Span(in): 126.00 Invert(ft): 24.850  
 Rise(in): 11988.00 Control Elev(ft): 24.850

-----  
 Name: DSSMfl1wet-11A From Node: SMF11wet Length(ft): 37.00  
 Group: BASE To Node: NB11A Count: 1  
 UPSTREAM DOWNSTREAM Friction Equation: Average Conveyance

\* All elevations are NAVD88.

Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 24.00	24.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.500
Invert(ft): 21.960	21.860	Exit Loss Coef: 1.000
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	Solution Incs: 10

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

\*\*\* Weir 1 of 2 for Drop Structure DSSMflwet-11A \*\*\*

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 2.70	Invert(ft): 23.860
Rise(in): 2.70	Control Elev(ft): 23.860

\*\*\* Weir 2 of 2 for Drop Structure DSSMflwet-11A \*\*\*

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 60.00	Invert(ft): 25.060
Rise(in): 33.60	Control Elev(ft): 25.060

---

Name: DSSMflwet-01B	From Node: SMFlwet	Length(ft): 50.00
Group: BASE	To Node: NB01B	Count: 2

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Horz Ellipse	Horz Ellipse	Solution Algorithm: Automatic
Span(in): 30.00	30.00	Flow: Both
Rise(in): 19.00	19.00	Entrance Loss Coef: 0.500
Invert(ft): 22.500	22.300	Exit Loss Coef: 1.000
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	Solution Incs: 10

Upstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

Downstream FHWA Inlet Edge Description:  
Horizontal Ellipse Concrete: Square edge with headwall

\*\*\* Weir 1 of 2 for Drop Structure DSSMflwet-01B \*\*\*

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 2.60	Invert(ft): 24.350
Rise(in): 4.80	Control Elev(ft): 24.350

\*\*\* Weir 2 of 2 for Drop Structure DSSMflwet-01B \*\*\*

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 120.00	Invert(ft): 24.760
Rise(in): 31.20	Control Elev(ft): 24.760

---

Name: DSSMF7d-SMF7w	From Node: SMF7dry	Length(ft): 200.00
Group: BASE	To Node: SMF7wet	Count: 2

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 36.00	36.00	Flow: Both
Rise(in): 36.00	36.00	Entrance Loss Coef: 0.500
Invert(ft): 17.000	16.860	Exit Loss Coef: 1.000
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	Solution Incs: 10

\* All elevations are NAVD88.

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

\*\*\* Weir 1 of 1 for Drop Structure DSSMF7d-SMF7w \*\*\*

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Vertical: Mavis	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Rectangular	Orifice Disc Coef: 0.600	
Span(in): 120.00	Invert(ft): 27.350	
Rise(in): 60.00	Control Elev(ft): 27.350	

```

-----
Name: DSSMF7wet-06A      From Node: SMF7wet      Length(ft): 24.00
Group: BASE              To Node: NB06A          Count: 1

UPSTREAM                DOWNSTREAM                Friction Equation: Average Conveyance
Geometry: Circular      Circular                  Solution Algorithm: Automatic
Span(in): 30.00         30.00                    Flow: Both
Rise(in): 30.00        30.00                    Entrance Loss Coef: 0.500
Invert(ft): 25.200     25.100                   Exit Loss Coef: 1.000
Manning's N: 0.013000  0.013000                 Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000    0.000                    Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000    0.000                    Solution Incs: 10
    
```

Upstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

\*\*\* Weir 1 of 2 for Drop Structure DSSMF7wet-06A \*\*\*

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Vertical: Mavis	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Rectangular	Orifice Disc Coef: 0.600	
Span(in): 2.50	Invert(ft): 25.360	
Rise(in): 2.50	Control Elev(ft): 25.360	

\*\*\* Weir 2 of 2 for Drop Structure DSSMF7wet-06A \*\*\*

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Horizontal	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Rectangular	Orifice Disc Coef: 0.600	
Span(in): 60.00	Invert(ft): 26.210	
Rise(in): 43.80	Control Elev(ft): 26.210	

==== Weirs =====

```

Name: W01B-03B          From Node: NB01B
Group: BASE             To Node: NB03B
Flow: Both              Count: 1
Type: Vertical: Fread   Geometry: Irregular
    
```

```

XSec: W01B-03B
Invert(ft): 24.460
Control Elevation(ft): 24.460
Struct Opening Dim(ft): 9999.00
TABLE
Bottom Clip(ft): 0.000
Top Clip(ft): 0.000
Weir Discharge Coef: 2.800
Orifice Discharge Coef: 0.600
    
```

```

-----
Name: W03A-04A          From Node: NB03A
Group: BASE             To Node: NB04A
Flow: Both              Count: 1
Type: Vertical: Fread   Geometry: Irregular
    
```

```

XSec: W03A-04A
Invert(ft): 24.900
Control Elevation(ft): 24.900
Struct Opening Dim(ft): 9999.00
    
```

\* All elevations are NAVD88.

TABLE

Bottom Clip(ft): 0.000  
 Top Clip(ft): 0.000  
 Weir Discharge Coef: 2.800  
 Orifice Discharge Coef: 0.600

Name: W03A-05A                      From Node: NB03A  
 Group: BASE                              To Node: NB05A  
 Flow: Both                                  Count: 1  
 Type: Vertical: Fread                  Geometry: Irregular

XSec: W03A-05A  
 Invert(ft): 24.930  
 Control Elevation(ft): 24.930  
 Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
 Top Clip(ft): 0.000  
 Weir Discharge Coef: 2.800  
 Orifice Discharge Coef: 0.600

Name: W03C-05A                      From Node: NB03C  
 Group: BASE                              To Node: NB05A  
 Flow: Both                                  Count: 1  
 Type: Vertical: Fread                  Geometry: Irregular

XSec: W03C-05A  
 Invert(ft): 24.940  
 Control Elevation(ft): 24.940  
 Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
 Top Clip(ft): 0.000  
 Weir Discharge Coef: 2.800  
 Orifice Discharge Coef: 0.600

Name: W04B-04C                      From Node: NB04B  
 Group: BASE                              To Node: NB04C  
 Flow: Both                                  Count: 1  
 Type: Vertical: Fread                  Geometry: Irregular

XSec: W04B-04C  
 Invert(ft): 25.880  
 Control Elevation(ft): 25.880  
 Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
 Top Clip(ft): 0.000  
 Weir Discharge Coef: 2.800  
 Orifice Discharge Coef: 0.600

Name: W05A-CHLAKE15              From Node: NB05A  
 Group: BASE                              To Node: NCH-Lake15  
 Flow: Both                                  Count: 1  
 Type: Vertical: Fread                  Geometry: Irregular

XSec: W05A-CHLAKE15  
 Invert(ft): 24.120  
 Control Elevation(ft): 24.120  
 Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000  
 Top Clip(ft): 0.000  
 Weir Discharge Coef: 2.800  
 Orifice Discharge Coef: 0.600

Name: W06A-04A                      From Node: NB06A  
 Group: BASE                              To Node: NB04A  
 Flow: Both                                  Count: 1  
 Type: Vertical: Fread                  Geometry: Irregular

XSec: W06A-04A  
 Invert(ft): 25.070  
 Control Elevation(ft): 25.070  
 Struct Opening Dim(ft): 9999.00

TABLE

Bottom Clip(ft): 0.000

\* All elevations are NAVD88.

Top Clip(ft): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

---

Name: W06B-04B                      From Node: NB06B  
Group: BASE                         To Node: NB04B  
Flow: Both                         Count: 1  
Type: Vertical: Fread               Geometry: Irregular

                                      XSec: W06B-04B  
                                      Invert(ft): 24.620  
Control Elevation(ft): 24.620  
Struct Opening Dim(ft): 9999.00

                                      TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

---

Name: W07B-06A                      From Node: NB07B  
Group: BASE                         To Node: NB06A  
Flow: Both                         Count: 1  
Type: Vertical: Fread               Geometry: Irregular

                                      XSec: W07B-06A  
                                      Invert(ft): 25.900  
Control Elevation(ft): 25.900  
Struct Opening Dim(ft): 9999.00

                                      TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

---

Name: W10-05A                       From Node: NB10  
Group: BASE                         To Node: NB05A  
Flow: Both                         Count: 1  
Type: Vertical: Fread               Geometry: Irregular

                                      XSec: W10-05A  
                                      Invert(ft): 25.650  
Control Elevation(ft): 25.650  
Struct Opening Dim(ft): 9999.00

                                      TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

---

Name: W11-13                        From Node: NB11B  
Group: BASE                         To Node: NB13  
Flow: Both                         Count: 1  
Type: Vertical: Fread               Geometry: Irregular

                                      XSec: W11-13  
                                      Invert(ft): 23.840  
Control Elevation(ft): 23.840  
Struct Opening Dim(ft): 9999.00

                                      TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

---

Name: W11A-09A                      From Node: NB11A  
Group: BASE                         To Node: NB09A  
Flow: Both                         Count: 1  
Type: Vertical: Fread               Geometry: Irregular

                                      XSec: W11A-09A  
                                      Invert(ft): 25.610  
Control Elevation(ft): 25.610  
Struct Opening Dim(ft): 9999.00

                                      TABLE

Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800

---

\* All elevations are NAVD88.



Orifice Discharge Coef: 0.600

-----  
Name: W11B-12                   From Node: NB11B  
Group: BASE                    To Node: NB12  
Flow: Both                    Count: 1  
Type: Vertical: Fread        Geometry: Irregular  
  
                  XSec: W11B-12  
                  Invert(ft): 24.570  
Control Elevation(ft): 24.570  
Struct Opening Dim(ft): 9999.00  
  
                  TABLE  
                  Bottom Clip(ft): 0.000  
                  Top Clip(ft): 0.000  
                  Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

-----  
Name: W12-09B                   From Node: NB12  
Group: BASE                    To Node: NB09B  
Flow: Both                    Count: 1  
Type: Vertical: Fread        Geometry: Irregular  
  
                  XSec: W12-09B  
                  Invert(ft): 25.270  
Control Elevation(ft): 25.270  
Struct Opening Dim(ft): 9999.00  
  
                  TABLE  
                  Bottom Clip(ft): 0.000  
                  Top Clip(ft): 0.000  
                  Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

-----  
Name: W13-15                   From Node: NB13  
Group: BASE                    To Node: NB15  
Flow: Both                    Count: 1  
Type: Vertical: Fread        Geometry: Irregular  
  
                  XSec: W13-15  
                  Invert(ft): 25.110  
Control Elevation(ft): 25.110  
Struct Opening Dim(ft): 9999.00  
  
                  TABLE  
                  Bottom Clip(ft): 0.000  
                  Top Clip(ft): 0.000  
                  Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

-----  
Name: W14-13                   From Node: NB14  
Group: BASE                    To Node: NB13  
Flow: Both                    Count: 1  
Type: Vertical: Fread        Geometry: Irregular  
  
                  XSec: W14-13  
                  Invert(ft): 24.150  
Control Elevation(ft): 24.150  
Struct Opening Dim(ft): 9999.00  
  
                  TABLE  
                  Bottom Clip(ft): 0.000  
                  Top Clip(ft): 0.000  
                  Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

-----  
Name: W15-19                   From Node: NB15  
Group: BASE                    To Node: NB19  
Flow: Both                    Count: 1  
Type: Vertical: Fread        Geometry: Irregular  
  
                  XSec: W15-19  
                  Invert(ft): 24.960  
Control Elevation(ft): 24.960  
Struct Opening Dim(ft): 9999.00  
  
                  TABLE  
                  Bottom Clip(ft): 0.000  
                  Top Clip(ft): 0.000  
                  Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

\* All elevations are NAVD88.

-----  
Name: W16-17                   From Node: NB16  
Group: BASE                    To Node: NB17  
Flow: Both                    Count: 1  
Type: Vertical: Fread         Geometry: Irregular  
  
                  XSec: W16-17  
                  Invert(ft): 23.570  
Control Elevation(ft): 23.570  
Struct Opening Dim(ft): 9999.00  
  
                  Bottom Clip(ft): 0.000                   TABLE  
                  Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

-----  
Name: W17-18                   From Node: NB17  
Group: BASE                    To Node: NB18  
Flow: Both                    Count: 1  
Type: Vertical: Fread         Geometry: Irregular  
  
                  XSec: W17-18  
                  Invert(ft): 23.890  
Control Elevation(ft): 23.890  
Struct Opening Dim(ft): 9999.00  
  
                  Bottom Clip(ft): 0.000                   TABLE  
                  Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

-----  
Name: W18-19                   From Node: NB18  
Group: BASE                    To Node: NB19  
Flow: Both                    Count: 1  
Type: Vertical: Fread         Geometry: Irregular  
  
                  XSec: W18-19  
                  Invert(ft): 23.470  
Control Elevation(ft): 23.470  
Struct Opening Dim(ft): 9999.00  
  
                  Bottom Clip(ft): 0.000                   TABLE  
                  Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

-----  
Name: W19-OFFSITE-W           From Node: NB19  
Group: BASE                    To Node: NOFFSITE-W  
Flow: Both                    Count: 1  
Type: Vertical: Fread         Geometry: Irregular  
  
                  XSec: W19-OFFSITE-W  
                  Invert(ft): 21.850  
Control Elevation(ft): 21.850  
Struct Opening Dim(ft): 9999.00  
  
                  Bottom Clip(ft): 0.000                   TABLE  
                  Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

-----  
Name: WCHLAKE3-05A           From Node: NCH-Lake3  
Group: BASE                    To Node: NB05A  
Flow: Both                    Count: 1  
Type: Vertical: Fread         Geometry: Irregular  
  
                  XSec: WCHLAKE3-05A  
                  Invert(ft): 23.940  
Control Elevation(ft): 23.940  
Struct Opening Dim(ft): 9999.00  
  
                  Bottom Clip(ft): 0.000                   TABLE  
                  Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

\* All elevations are NAVD88.

Name: WDEPR-OFFSITE From Node: NDEPR  
Group: BASE To Node: NOFFSITE  
Flow: Both Count: 1  
Type: Vertical: Fread Geometry: Irregular

XSec: WDEPR-OFFSITE  
Invert(ft): 24.500  
Control Elevation(ft): 24.500  
Struct Opening Dim(ft): 9999.00  
TABLE  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

Name: WSMF2wet1A-01B From Node: SMF2wet  
Group: BASE To Node: NB01B  
Flow: Both Count: 1  
Type: Vertical: Mavis Geometry: Rectangular

Span(in): 7.20  
Rise(in): 7.20  
Invert(ft): 24.860  
Control Elevation(ft): 24.860  
TABLE  
Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

Orifice weir (from email dated 3/18/2013) from ETM.

Name: WSMF2wet1B-01B From Node: SMF2wet  
Group: BASE To Node: NB01B  
Flow: Both Count: 1  
Type: Vertical: Mavis Geometry: Rectangular

Span(in): 132.00  
Rise(in): 9999.00  
Invert(ft): 25.370  
Control Elevation(ft): 25.370  
TABLE  
Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

Weir (from email dated 3/18/2013) from ETM.

Name: WSMF5wet1A-5A From Node: SMF5wet  
Group: BASE To Node: NB05A  
Flow: Both Count: 1  
Type: Vertical: Mavis Geometry: Rectangular

Span(in): 14.30  
Rise(in): 4.10  
Invert(ft): 24.860  
Control Elevation(ft): 24.860  
TABLE  
Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

Name: WSMF5wet1B-5A From Node: SMF5wet  
Group: BASE To Node: NB05A  
Flow: Both Count: 1  
Type: Vertical: Mavis Geometry: Rectangular

Span(in): 72.00  
Rise(in): 31.00  
Invert(ft): 25.200  
Control Elevation(ft): 25.200  
TABLE  
Bottom Clip(in): 0.000  
Top Clip(in): 0.000  
Weir Discharge Coef: 3.200  
Orifice Discharge Coef: 0.600

Name: WSouth-OFFSITE From Node: NBSouth

\* All elevations are NAVD88.

Group: BASE To Node: NOFFSITE-S  
Flow: Both Count: 1  
Type: Vertical: Fread Geometry: Irregular

XSec: WSouth-OFFSITE  
Invert(ft): 24.620  
Control Elevation(ft): 24.620  
Struct Opening Dim(ft): 9999.00  
Bottom Clip(ft): 0.000  
Top Clip(ft): 0.000  
Weir Discharge Coef: 2.800  
Orifice Discharge Coef: 0.600

TABLE

=====  
=== Hydrology Simulations ===  
=====

Name: 25YR-24HRPST  
Filename: G:\12-096\Trans\drainage\icpr\prop 0429\25YR-24HRPST.R32

Override Defaults: Yes  
Storm Duration(hrs): 24.00  
Rainfall File: Flmod  
Rainfall Amount(in): 9.50

Time(hrs) Print Inc(min)  
-----  
50.000 1.00

Name: 3YR24HRPST  
Filename: G:\12-096\Trans\drainage\icpr\prop 0429\3YR24HRPST.R32

Override Defaults: Yes  
Storm Duration(hrs): 24.00  
Rainfall File: Flmod  
Rainfall Amount(in): 5.50

Time(hrs) Print Inc(min)  
-----  
50.000 1.00

Name: MA24HRPST  
Filename: G:\12-096\Trans\drainage\icpr\prop 0429\MA24HRPST.R32

Override Defaults: Yes  
Storm Duration(hrs): 24.00  
Rainfall File: Flmod  
Rainfall Amount(in): 5.00

Time(hrs) Print Inc(min)  
-----  
50.000 1.00

=====  
=== Routing Simulations ===  
=====

Name: 25YR-24HRPST Hydrology Sim: 25YR-24HRPST  
Filename: G:\12-096\Trans\drainage\icpr\prop 0429\25YR-24HRPST.I32

Execute: Yes Restart: No Patch: No  
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500  
Time Step Optimizer: 10.000  
Start Time(hrs): 0.000 End Time(hrs): 50.00  
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 1.0000  
Boundary Stages: 25YRBDY Boundary Flows:

Time(hrs) Print Inc(min)  
-----  
50.000 1.000

Group Run  
-----  
BASE Yes

Name: 3YR24HRPST Hydrology Sim: 3YR24HRPST  
Filename: G:\12-096\Trans\drainage\icpr\prop 0429\3YR24HRPST.I32

Execute: Yes Restart: No Patch: No  
Alternative: No

\* All elevations are NAVD88.

Max Delta Z(ft): 1.00	Delta Z Factor: 0.00500
Time Step Optimizer: 10.000	
Start Time(hrs): 0.000	End Time(hrs): 50.00
Min Calc Time(sec): 0.5000	Max Calc Time(sec): 1.0000
Boundary Stages: 10YRBDY	Boundary Flows:

Time(hrs)	Print Inc(min)
-----	-----
50.000	1.000
Group	Run
-----	-----
BASE	Yes

Name: MA24HRPST      Hydrology Sim: MA24HRPST  
 Filename: G:\12-096\Trans\drainage\icpr\prop 0429\MA24HRPST.I32

Execute: Yes      Restart: No      Patch: No  
 Alternative: No

Max Delta Z(ft): 1.00	Delta Z Factor: 0.00500
Time Step Optimizer: 10.000	
Start Time(hrs): 0.000	End Time(hrs): 50.00
Min Calc Time(sec): 0.5000	Max Calc Time(sec): 1.0000
Boundary Stages: 10YRBDY	Boundary Flows:

Time(hrs)	Print Inc(min)
-----	-----
50.000	1.000
Group	Run
-----	-----
BASE	Yes

=====  
 === Boundary Conditions ===  
 =====

Name: 10YRBDY      Node: NCH-Lake15      Type: Stage

Time(hrs)	Stage(ft)
-----	-----
0.000	22.860
1.000	22.860
2.000	22.860
3.000	22.860
4.000	22.860
5.000	22.860
6.000	22.860
7.000	22.860
8.000	22.860
9.000	22.860
10.000	22.860
10.500	22.860
11.000	22.860
11.500	22.860
12.000	23.280
12.500	23.660
13.000	23.760
13.500	23.800
14.000	23.790
14.500	23.750
15.000	23.730
16.000	23.740
17.000	23.770
18.000	23.820
19.000	23.870
20.000	23.910
21.000	23.940
22.000	23.970
23.000	23.980
24.000	24.000
25.000	24.000
26.000	24.000
27.000	24.000
28.000	24.000
29.000	23.990
30.000	23.990
31.000	23.990
32.000	23.990
33.000	23.980
34.000	23.980
35.000	23.980
36.000	23.970
50.000	23.690

\* All elevations are NAVD88.

-----

Name: 25YRBDY	Node: NCH-Lake15	Type: Stage
Time(hrs)	Stage(ft)	
0.000	22.860	
1.000	22.860	
2.000	22.860	
3.000	22.870	
4.000	22.880	
5.000	22.900	
6.000	22.920	
7.000	22.940	
8.000	22.980	
9.000	23.020	
10.000	23.090	
10.500	23.130	
11.000	23.200	
11.500	23.320	
12.000	23.750	
12.500	24.130	
13.000	24.240	
13.500	24.280	
14.000	24.270	
14.500	24.230	
15.000	24.200	
16.000	24.210	
17.000	24.250	
18.000	24.300	
19.000	24.350	
20.000	24.390	
21.000	24.420	
22.000	24.450	
23.000	24.460	
24.000	24.480	
25.000	24.480	
26.000	24.480	
27.000	24.480	
28.000	24.480	
29.000	24.470	
30.000	24.470	
31.000	24.470	
32.000	24.470	
33.000	24.460	
34.000	24.460	
35.000	24.460	
36.000	24.450	
50.000	24.160	

-----

Name: 100YRBDY	Node: NCH-Lake15	Type: Stage
Time(hrs)	Stage(ft)	
0.000	23.050	
1.000	23.050	
2.000	23.050	
3.000	23.060	
4.000	23.070	
5.000	23.090	
6.000	23.110	
7.000	23.130	
8.000	23.170	
9.000	23.210	
10.000	23.280	
10.500	23.320	
11.000	23.390	
11.500	23.510	
12.000	23.940	
12.500	24.330	
13.000	24.440	
13.500	24.480	
14.000	24.470	
14.500	24.430	
15.000	24.400	
16.000	24.410	
17.000	24.450	
18.000	24.500	
19.000	24.550	
20.000	24.590	
21.000	24.620	
22.000	24.650	
23.000	24.660	
24.000	24.680	
25.000	24.680	
26.000	24.680	
27.000	24.680	
28.000	24.680	
29.000	24.670	
30.000	24.670	
31.000	24.670	

\* All elevations are NAVD88.

32.000	24.670
33.000	24.660
34.000	24.660
35.000	24.660
36.000	24.650
50.000	24.360

-----  
Name: 10YRBDY                      Node: NALPOND1                      Type: Stage

Time (hrs)	Stage (ft)
0.000	22.860
1.000	22.860
2.000	22.860
3.000	22.860
4.000	22.860
5.000	22.860
6.000	22.860
7.000	22.860
8.000	22.860
9.000	22.860
10.000	22.860
10.500	22.860
11.000	22.860
11.500	23.590
12.000	24.410
12.500	24.910
13.000	24.600
13.500	24.780
14.000	24.710
14.500	24.650
15.000	24.580
16.000	24.470
17.000	24.370
18.000	24.250
19.000	24.130
20.000	24.020
21.000	23.900
22.000	23.810
23.000	23.730
24.000	23.660
25.000	23.560
26.000	23.500
27.000	23.470
28.000	23.440
29.000	23.420
30.000	23.410
31.000	23.410
32.000	23.400
33.000	23.390
34.000	23.380
35.000	23.370
36.000	23.370
50.000	23.260

-----  
Name: 25YRBDY                      Node: NALPOND1                      Type: Stage

Time (hrs)	Stage (ft)
0.000	22.860
1.000	22.860
2.000	22.860
3.000	22.860
4.000	22.870
5.000	22.900
6.000	22.940
7.000	23.000
8.000	23.080
9.000	23.200
10.000	23.350
10.500	23.460
11.000	23.610
11.500	23.840
12.000	24.660
12.500	25.170
13.000	24.860
13.500	25.040
14.000	24.970
14.500	24.910
15.000	24.840
16.000	24.730
17.000	24.620
18.000	24.500
19.000	24.380
20.000	24.270
21.000	24.150
22.000	24.060
23.000	23.980
24.000	23.910
25.000	23.810

\* All elevations are NAVD88.

26.000	23.750
27.000	23.720
28.000	23.690
29.000	23.670
30.000	23.660
31.000	23.650
32.000	23.640
33.000	23.630
34.000	23.620
35.000	23.610
36.000	23.610
50.000	23.500

-----  
 Name: 100YRBDY                      Node: NALPOND1                      Type: Stage

Time(hrs)	Stage(ft)
0.000	23.220
1.000	23.220
2.000	23.220
3.000	23.220
4.000	23.230
5.000	23.260
6.000	23.300
7.000	23.360
8.000	23.440
9.000	23.560
10.000	23.710
10.500	23.820
11.000	23.980
11.500	24.210
12.000	25.040
12.500	25.560
13.000	25.250
13.500	25.430
14.000	25.360
14.500	25.300
15.000	25.230
16.000	25.110
17.000	25.000
18.000	24.880
19.000	24.760
20.000	24.650
21.000	24.520
22.000	24.430
23.000	24.350
24.000	24.280
25.000	24.180
26.000	24.120
27.000	24.090
28.000	24.060
29.000	24.040
30.000	24.030
31.000	24.020
32.000	24.010
33.000	24.000
34.000	23.990
35.000	23.980
36.000	23.980
50.000	23.870

\* All elevations are NAVD88.